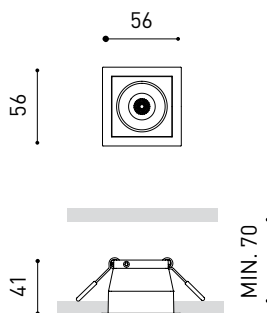




DIMENSIONS



AWARDS



Name	BLACK FOSTER REC 1 SPOT DIM DALI 2700K WN
Reference	A3191140WN
Color	White-Black
RAL	Colour in the mass looks alike RAL 9016 & 9005
Category	CEILING RECESSED

PRODUCT

BLACK FOSTER REC 1 SPOT DIM DALI 2700K WN

A3191140WN

White-Black

Colour in the mass looks alike RAL 9016 & 9005

CEILING RECESSED

LIGHTING INFORMATION

Light source	LED
Gross luminous flux	190 Lm
Power	2,1 W
Power values of the system	2,56 W
Colour temperature	2700 K
Colour Rendering Index	CRI>90
Chromatic stability	MacAdam Step 3
Light beam angle	19°
Lighting efficiency	90%
Efficacy	90 Lm/W
Current intensity	700 mA
Dimming	DALI
Control through bluetooth	Please Consult
Driver	Included - Connected
Emergency power supply	Please Consult
Electrical insulation class	□
Voltage	220 V/240 V
Frequency	50/60 Hz
Energy efficiency	A++
LED lifespan	L80B10 (Tc=85°C) >60.000h

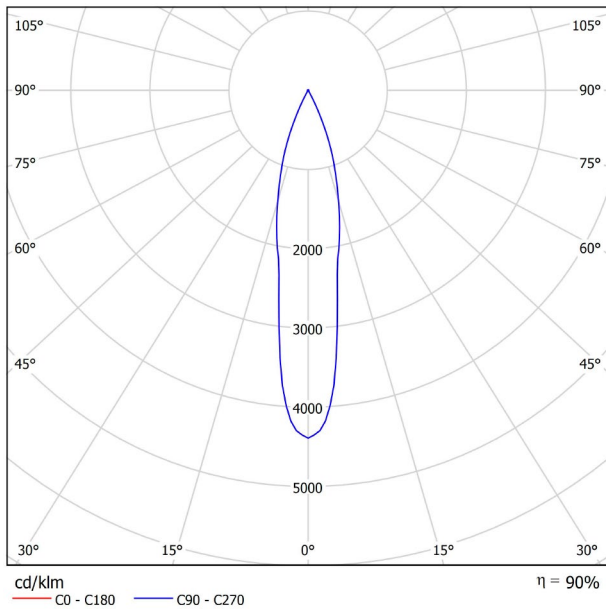
OTHER DATA

Ingress Protection	IP20
Recess measurements	50 × 50 mm.
Weight	160 g.
Packaged weight	255 g.
Packaging dimensions	168 × 98 × 74 mm
Units per package	1
Materials	Aluminium / Acrylonitrile Butadiene Styrene

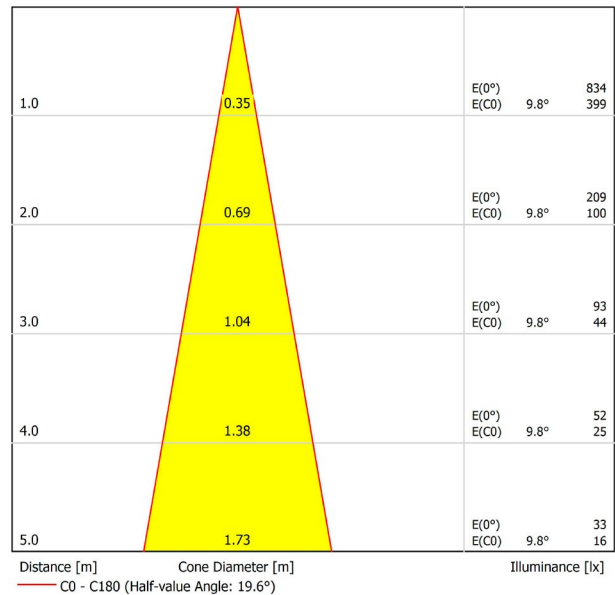


Black Foster is the product that transfers the claimed effect "The Invisible Black" to a recessed-isolated lineal luminary; also available in trimless version. If we take a closer view to the recessed model, its bezel is so thin than when lighted up, it is unperceived; offering an aesthetic of "visual trimless". Black Foster stands out for its refinement, its visual comfort and for almost completely hide the source of light from the human eye range.

POLAR DIAGRAM



CONICAL DIAGRAM

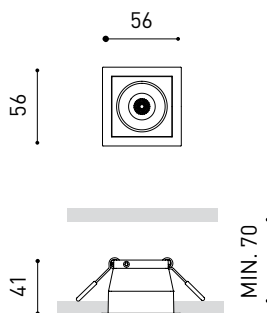


UGR

Glare Evaluation According to UGR												
ρ Ceiling		70	70	50	50	30	70	70	50	50	30	
ρ Walls		50	30	50	30	30	50	30	50	30	30	
ρ Floor		20	20	20	20	20	20	20	20	20	20	
Room Size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis					
2H	2H	-3.5	-2.8	-3.2	-2.6	-2.4	-3.5	-2.8	-3.2	-2.6	-2.4	
	3H	0.4	1.0	0.7	1.3	1.5	0.4	1.0	0.7	1.3	1.5	
	4H	2.9	3.4	3.2	3.7	3.9	2.9	3.4	3.2	3.7	3.9	
	6H	4.6	5.1	4.9	5.4	5.7	4.6	5.1	4.9	5.4	5.7	
	8H	5.8	6.3	6.2	6.6	6.9	5.8	6.3	6.2	6.6	6.9	
	12H	7.2	7.6	7.5	7.9	8.2	7.2	7.6	7.5	7.9	8.2	
4H	2H	-1.8	-1.3	-1.5	-1.0	-0.8	-1.8	-1.3	-1.5	-1.0	-0.8	
	3H	1.9	2.4	2.3	2.7	3.0	1.9	2.4	2.3	2.7	3.0	
	4H	4.4	4.8	4.7	5.1	5.4	4.4	4.8	4.7	5.1	5.4	
	6H	6.3	6.6	6.7	7.0	7.3	6.3	6.6	6.7	7.0	7.3	
	8H	7.6	7.9	8.0	8.3	8.7	7.6	7.9	8.0	8.3	8.7	
	12H	9.1	9.3	9.5	9.7	10.1	9.1	9.3	9.5	9.7	10.1	
8H	4H	5.1	5.4	5.5	5.8	6.2	5.1	5.4	5.5	5.8	6.2	
	6H	7.3	7.5	7.7	7.9	8.4	7.3	7.5	7.7	7.9	8.4	
	8H	8.9	9.1	9.3	9.5	10.0	8.9	9.1	9.3	9.5	10.0	
	12H	10.5	10.7	11.0	11.1	11.6	10.5	10.7	11.0	11.1	11.6	
12H	4H	5.3	5.5	5.7	5.9	6.4	5.3	5.5	5.7	5.9	6.4	
	6H	7.7	7.8	8.1	8.3	8.7	7.7	7.8	8.1	8.3	8.7	
	8H	9.4	9.5	9.9	10.0	10.5	9.4	9.5	9.9	10.0	10.5	
Variation of the observer position for the luminaire distances S												
S = 1.0H		+0.1 / -0.2					+0.1 / -0.2					
S = 1.5H		+0.3 / -0.3					+0.3 / -0.3					
S = 2.0H		+0.6 / -0.5					+0.6 / -0.5					
Standard table		---					---					
Correction		---					---					
Summand		---					---					
Corrected Glare Indices referring to 190lm Total Luminous Flux												



DIMENSIONS



AWARDS



Name	BLACK FOSTER REC 1 SPOT DIM DALI 3000K N
Reference	A3191141N
Color	Matt black
RAL	9005
Category	CEILING RECESSED

PRODUCT

Light source	LED
Gross luminous flux	210 Lm
Power	2,1 W
Power values of the system	2,56 W
Colour temperature	3000 K
Colour Rendering Index	CRI>90
Chromatic stability	MacAdam Step 3
Light beam angle	19°
Lighting efficiency	90%
Efficacy	100 Lm/W
Current intensity	700 mA
Dimming	DALI
Control through bluetooth	Please Consult
Driver	Included - Connected
Emergency power supply	Please Consult
Electrical insulation class	□
Voltage	220 V/240 V
Frequency	50/60 Hz
Energy efficiency	A++
LED lifespan	L80B10 (Tc=85°C) >60.000h

LIGHTING INFORMATION

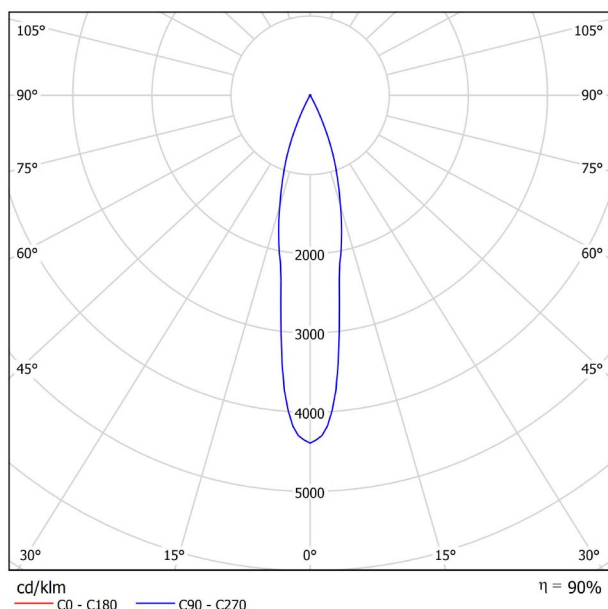
Ingress Protection	IP20
Recess measurements	50 × 50 mm.
Weight	160 g.
Packaged weight	255 g.
Packaging dimensions	168 × 98 × 74 mm
Units per package	1
Materials	Aluminium / Acrylonitrile Butadiene Styrene

OTHER DATA

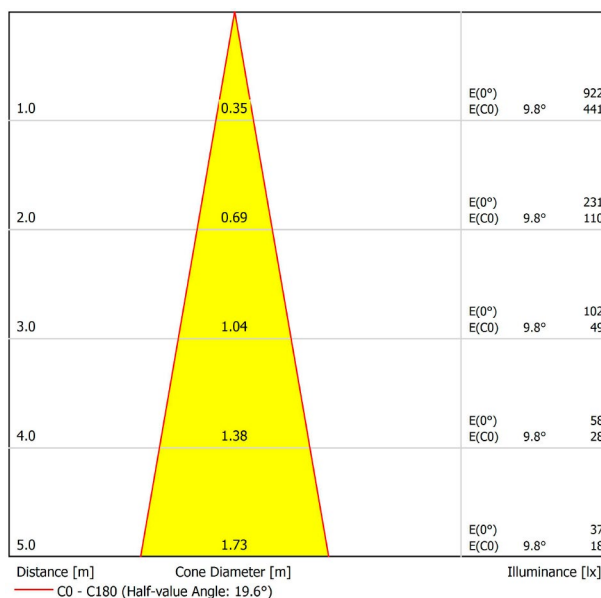


Black Foster is the product that transfers the claimed effect "The Invisible Black" to a recessed-isolated lineal luminary; also available in trimless version. If we take a closer view to the recessed model, its bezel is so thin than when lighted up, it is unperceived; offering an aesthetic of "visual trimless". Black Foster stands out for its refinement, its visual comfort and for almost completely hide the source of light from the human eye range.

POLAR DIAGRAM



CONICAL DIAGRAM

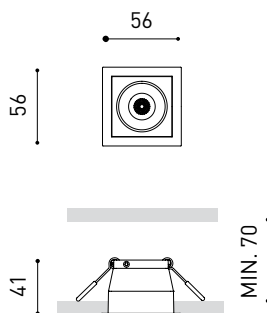


UGR

Glare Evaluation According to UGR												
p Ceiling		70	70	50	50	30	70	70	50	50	30	
p Walls		50	30	50	30	30	50	30	50	30	30	
p Floor		20	20	20	20	20	20	20	20	20	20	
Room Size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis					
2H	2H	-3.1	-2.5	-2.9	-2.3	-2.1	-3.1	-2.5	-2.9	-2.3	-2.1	
	3H	0.8	1.4	1.1	1.6	1.8	0.8	1.4	1.1	1.6	1.8	
	4H	3.2	3.8	3.5	4.0	4.3	3.2	3.8	3.5	4.0	4.3	
	6H	5.0	5.5	5.3	5.7	6.0	5.0	5.5	5.3	5.7	6.0	
	8H	6.2	6.7	6.5	6.9	7.2	6.2	6.7	6.5	6.9	7.2	
4H	12H	7.5	8.0	7.9	8.3	8.6	7.5	8.0	7.9	8.3	8.6	
	2H	-1.5	-0.9	-1.2	-0.7	-0.4	-1.5	-0.9	-1.2	-0.7	-0.4	
	3H	2.3	2.7	2.6	3.0	3.4	2.3	2.7	2.6	3.0	3.4	
	4H	4.7	5.1	5.1	5.4	5.8	4.7	5.1	5.1	5.4	5.8	
	6H	6.6	6.9	7.0	7.3	7.7	6.6	6.9	7.0	7.3	7.7	
8H	8H	8.0	8.2	8.4	8.6	9.0	8.0	8.2	8.4	8.6	9.0	
	12H	9.4	9.7	9.8	10.0	10.5	9.4	9.7	9.8	10.0	10.5	
	4H	5.4	5.7	5.9	6.1	6.5	5.4	5.7	5.9	6.1	6.5	
	6H	7.6	7.9	8.1	8.3	8.7	7.6	7.9	8.1	8.3	8.7	
	8H	9.2	9.4	9.7	9.8	10.3	9.2	9.4	9.7	9.8	10.3	
12H	12H	10.9	11.0	11.4	11.5	12.0	10.9	11.0	11.4	11.5	12.0	
	4H	5.6	5.9	6.1	6.3	6.7	5.6	5.9	6.1	6.3	6.7	
	6H	8.0	8.2	8.5	8.6	9.1	8.0	8.2	8.5	8.6	9.1	
	8H	9.7	9.9	10.2	10.3	10.8	9.7	9.9	10.2	10.3	10.8	
Variation of the observer position for the luminaire distances S												
S = 1.0H		+0.1 / -0.2					+0.1 / -0.2					
S = 1.5H		+0.3 / -0.3					+0.3 / -0.3					
S = 2.0H		+0.6 / -0.5					+0.6 / -0.5					
Standard table		---					---					
Correction		---					---					
Summand		---					---					
Corrected Glare Indices referring to 210lm Total Luminous Flux												



DIMENSIONS



AWARDS



Name	BLACK FOSTER REC 1 SPOT DIM DALI 3000K NMG
Reference	A3191141NMG
Color	Matt black-Metallized gold
RAL	Metalllic finish
Category	CEILING RECESSED

PRODUCT

LIGHTING INFORMATION

Light source	LED
Gross luminous flux	210 Lm
Power	2,1 W
Power values of the system	3,23 W
Colour temperature	3000 K
Colour Rendering Index	CRI>90
Chromatic stability	MacAdam Step 3
Light beam angle	19°
Lighting efficiency	90%
Efficacy	100 Lm/W
Current intensity	700 mA
Dimming	DALI
Control through bluetooth	Please Consult
Driver	Included - Connected
Emergency power supply	Please Consult
Electrical insulation class	□
Voltage	220 V/240 V
Frequency	50/60 Hz
Energy efficiency	A++
LED lifespan	L80B10 (Tc=85°C) >60.000h

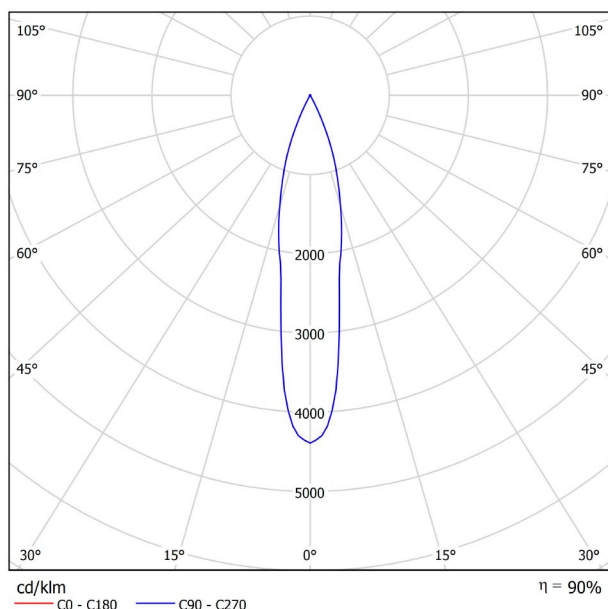
OTHER DATA

Ingress Protection	IP20
Recess measurements	50 × 50 mm.
Weight	160 g.
Packaged weight	255 g.
Packaging dimensions	168 × 98 × 74 mm
Units per package	1
Materials	Aluminium / Acrylonitrile Butadiene Styrene

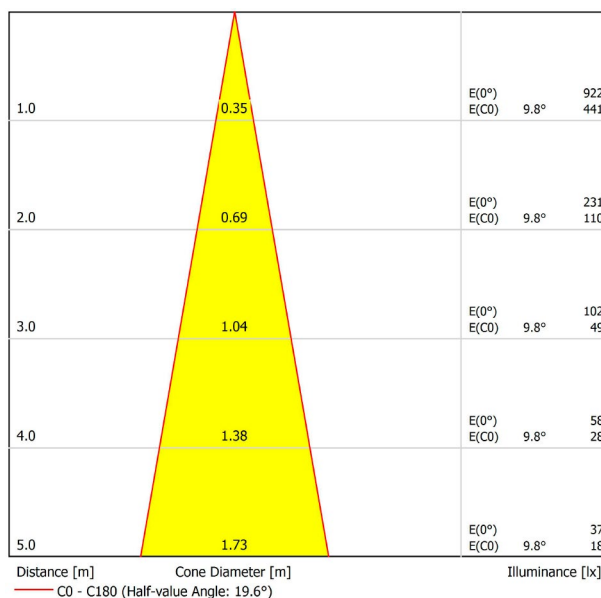


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POLAR DIAGRAM



CONICAL DIAGRAM

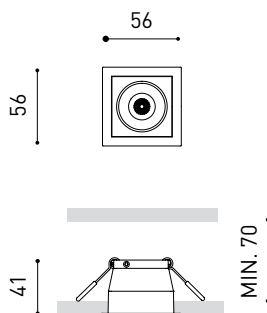


UGR

Glare Evaluation According to UGR												
p Ceiling		70	70	50	50	30	70	70	50	50	30	
p Walls		50	30	50	30	30	50	30	50	30	30	
p Floor		20	20	20	20	20	20	20	20	20	20	
Room Size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis					
2H	2H	-3.1	-2.5	-2.9	-2.3	-2.1	-3.1	-2.5	-2.9	-2.3	-2.1	
	3H	0.8	1.4	1.1	1.6	1.8	0.8	1.4	1.1	1.6	1.8	
	4H	3.2	3.8	3.5	4.0	4.3	3.2	3.8	3.5	4.0	4.3	
	6H	5.0	5.5	5.3	5.7	6.0	5.0	5.5	5.3	5.7	6.0	
	8H	6.2	6.7	6.5	6.9	7.2	6.2	6.7	6.5	6.9	7.2	
4H	12H	7.5	8.0	7.9	8.3	8.6	7.5	8.0	7.9	8.3	8.6	
	2H	-1.5	-0.9	-1.2	-0.7	-0.4	-1.5	-0.9	-1.2	-0.7	-0.4	
	3H	2.3	2.7	2.6	3.0	3.4	2.3	2.7	2.6	3.0	3.4	
	4H	4.7	5.1	5.1	5.4	5.8	4.7	5.1	5.1	5.4	5.8	
	6H	6.6	6.9	7.0	7.3	7.7	6.6	6.9	7.0	7.3	7.7	
8H	8H	8.0	8.2	8.4	8.6	9.0	8.0	8.2	8.4	8.6	9.0	
	12H	9.4	9.7	9.8	10.0	10.5	9.4	9.7	9.8	10.0	10.5	
	4H	5.4	5.7	5.9	6.1	6.5	5.4	5.7	5.9	6.1	6.5	
	6H	7.6	7.9	8.1	8.3	8.7	7.6	7.9	8.1	8.3	8.7	
	8H	9.2	9.4	9.7	9.8	10.3	9.2	9.4	9.7	9.8	10.3	
12H	12H	10.9	11.0	11.4	11.5	12.0	10.9	11.0	11.4	11.5	12.0	
	4H	5.6	5.9	6.1	6.3	6.7	5.6	5.9	6.1	6.3	6.7	
	6H	8.0	8.2	8.5	8.6	9.1	8.0	8.2	8.5	8.6	9.1	
8H		9.7	9.9	10.2	10.3	10.8	9.7	9.9	10.2	10.3	10.8	
Variation of the observer position for the luminaire distances S												
S = 1.0H		+0.1 / -0.2					+0.1 / -0.2					
S = 1.5H		+0.3 / -0.3					+0.3 / -0.3					
S = 2.0H		+0.6 / -0.5					+0.6 / -0.5					
Standard table		---					---					
Correction		---					---					
Summand		---					---					
Corrected Glare Indices referring to 210lm Total Luminous Flux												



DIMENSIONS



AWARDS



Name	BLACK FOSTER REC 1 SPOT DIM DALI 3000K WN
Reference	A3191141WN
Color	White-Black
RAL	Colour in the mass looks alike RAL 9016 & 9005
Category	CEILING RECESSED

PRODUCT

BLACK FOSTER REC 1 SPOT DIM DALI 3000K WN

A3191141WN

White-Black

Colour in the mass looks alike RAL 9016 & 9005

CEILING RECESSED

LIGHTING INFORMATION

Light source	LED
Gross luminous flux	210 Lm
Power	2,1 W
Power values of the system	2,56 W
Colour temperature	3000 K
Colour Rendering Index	CRI>90
Chromatic stability	MacAdam Step 3
Light beam angle	19°
Lighting efficiency	90%
Efficacy	100 Lm/W
Current intensity	700 mA
Dimming	DALI
Control through bluetooth	Please Consult
Driver	Included - Connected
Emergency power supply	Please Consult
Electrical insulation class	□
Voltage	220 V/240 V
Frequency	50/60 Hz
Energy efficiency	A++
LED lifespan	L80B10 (Tc=85°C) >60.000h

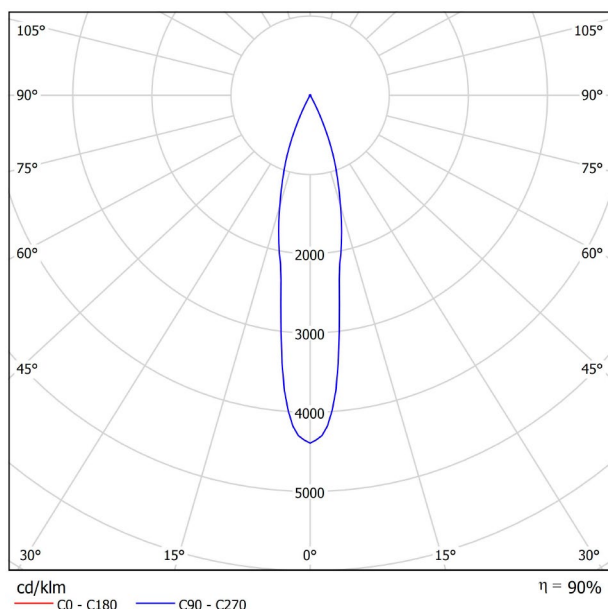
OTHER DATA

Ingress Protection	IP20
Recess measurements	50 × 50 mm.
Weight	160 g.
Packaged weight	255 g.
Packaging dimensions	168 × 98 × 74 mm
Units per package	1
Materials	Aluminium / Acrylonitrile Butadiene Styrene

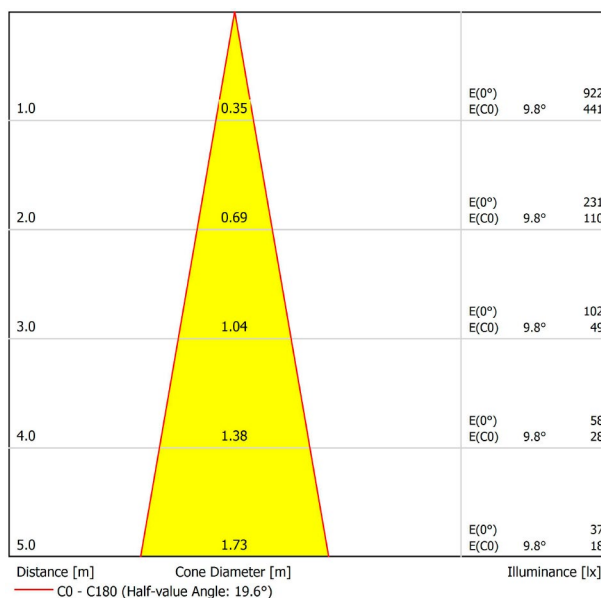


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POLAR DIAGRAM



CONICAL DIAGRAM

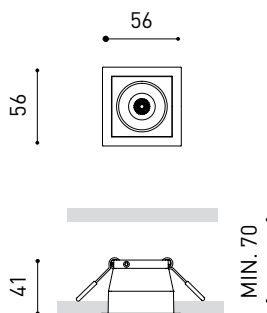


UGR

Glare Evaluation According to UGR												
p Ceiling		70	70	50	50	30	70	70	50	50	30	
p Walls		50	30	50	30	30	50	30	50	30	30	
p Floor		20	20	20	20	20	20	20	20	20	20	
Room Size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis					
2H	2H	-3.1	-2.5	-2.9	-2.3	-2.1	-3.1	-2.5	-2.9	-2.3	-2.1	
	3H	0.8	1.4	1.1	1.6	1.8	0.8	1.4	1.1	1.6	1.8	
	4H	3.2	3.8	3.5	4.0	4.3	3.2	3.8	3.5	4.0	4.3	
	6H	5.0	5.5	5.3	5.7	6.0	5.0	5.5	5.3	5.7	6.0	
	8H	6.2	6.7	6.5	6.9	7.2	6.2	6.7	6.5	6.9	7.2	
4H	12H	7.5	8.0	7.9	8.3	8.6	7.5	8.0	7.9	8.3	8.6	
	2H	-1.5	-0.9	-1.2	-0.7	-0.4	-1.5	-0.9	-1.2	-0.7	-0.4	
	3H	2.3	2.7	2.6	3.0	3.4	2.3	2.7	2.6	3.0	3.4	
	4H	4.7	5.1	5.1	5.4	5.8	4.7	5.1	5.1	5.4	5.8	
	6H	6.6	6.9	7.0	7.3	7.7	6.6	6.9	7.0	7.3	7.7	
8H	8H	8.0	8.2	8.4	8.6	9.0	8.0	8.2	8.4	8.6	9.0	
	12H	9.4	9.7	9.8	10.0	10.5	9.4	9.7	9.8	10.0	10.5	
	4H	5.4	5.7	5.9	6.1	6.5	5.4	5.7	5.9	6.1	6.5	
	6H	7.6	7.9	8.1	8.3	8.7	7.6	7.9	8.1	8.3	8.7	
	8H	9.2	9.4	9.7	9.8	10.3	9.2	9.4	9.7	9.8	10.3	
12H	12H	10.9	11.0	11.4	11.5	12.0	10.9	11.0	11.4	11.5	12.0	
	4H	5.6	5.9	6.1	6.3	6.7	5.6	5.9	6.1	6.3	6.7	
	6H	8.0	8.2	8.5	8.6	9.1	8.0	8.2	8.5	8.6	9.1	
	8H	9.7	9.9	10.2	10.3	10.8	9.7	9.9	10.2	10.3	10.8	
	Variation of the observer position for the luminaire distances S											
S = 1.0H		+0.1 / -0.2					+0.1 / -0.2					
S = 1.5H		+0.3 / -0.3					+0.3 / -0.3					
S = 2.0H		+0.6 / -0.5					+0.6 / -0.5					
Standard table		---					---					
Correction		---					---					
Summand		---					---					
Corrected Glare Indices referring to 210lm Total Luminous Flux												



DIMENSIONS



AWARDS



Name	BLACK FOSTER REC 1 SPOT DIM DALI 4000K N
Reference	A3191142N
Color	Matt black
RAL	9005
Category	CEILING RECESSED

PRODUCT

BLACK FOSTER REC 1 SPOT DIM DALI 4000K N

A3191142N

Matt black

9005

CEILING RECESSED

LIGHTING INFORMATION

Light source	LED
Gross luminous flux	250 Lm
Power	2,1 W
Power values of the system	2,56 W
Colour temperature	4000 K
Colour Rendering Index	CRI>90
Chromatic stability	MacAdam Step 3
Light beam angle	19°
Lighting efficiency	90%
Efficacy	119 Lm/W
Current intensity	700 mA
Dimming	DALI
Control through bluetooth	Please Consult
Driver	Included - Connected
Emergency power supply	Please Consult
Electrical insulation class	□
Voltage	220 V/240 V
Frequency	50/60 Hz
Energy efficiency	A++
LED lifespan	L80B10 (Tc=85°C) >60.000h

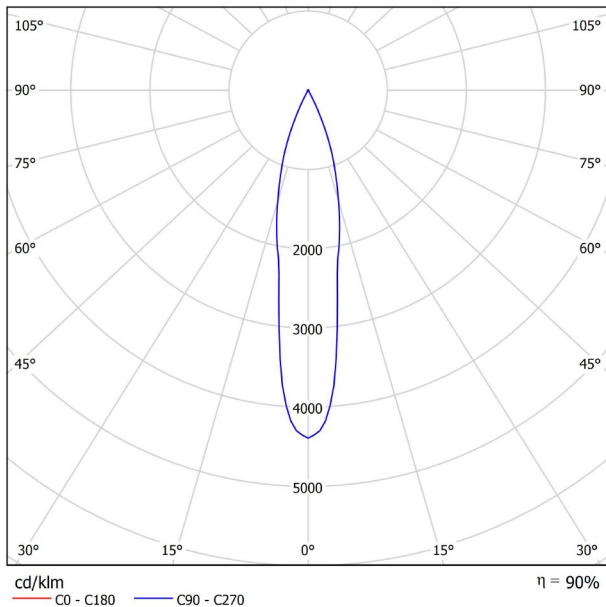
OTHER DATA

Ingress Protection	IP20
Recess measurements	50 × 50 mm.
Weight	160 g.
Packaged weight	255 g.
Packaging dimensions	168 × 98 × 74 mm
Units per package	1
Materials	Aluminium / Acrylonitrile Butadiene Styrene

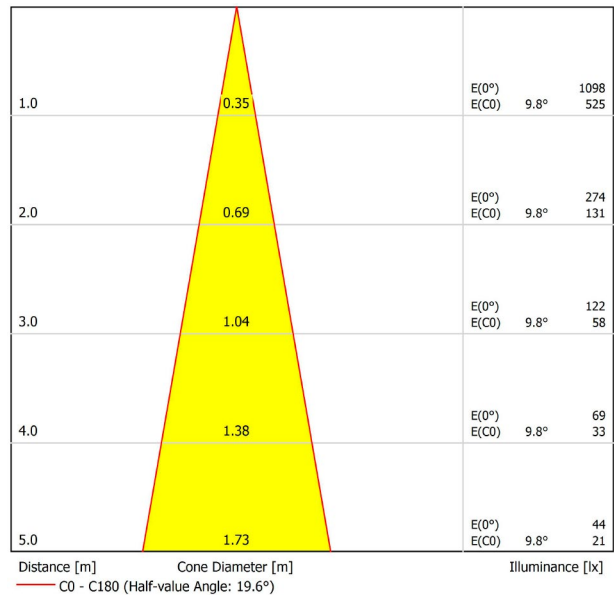


Black Foster is the product that transfers the claimed effect "The Invisible Black" to a recessed-isolated lineal luminary; also available in trimless version. If we take a closer view to the recessed model, its bezel is so thin than when lighted up, it is unperceived; offering an aesthetic of "visual trimless". Black Foster stands out for its refinement, its visual comfort and for almost completely hide the source of light from the human eye range.

POLAR DIAGRAM



CONICAL DIAGRAM

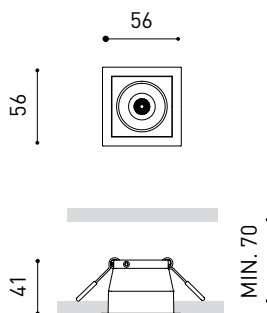


UGR

Glare Evaluation According to UGR											
ρ Ceiling		70	70	50	50	30	70	70	50	50	30
ρ Walls		50	30	50	30	30	50	30	50	30	30
ρ Floor		20	20	20	20	20	20	20	20	20	20
Room Size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	-2.5	-1.9	-2.3	-1.7	-1.5	-2.5	-1.9	-2.3	-1.7	-1.5
	3H	1.4	2.0	1.7	2.2	2.4	1.4	2.0	1.7	2.2	2.4
	4H	3.8	4.4	4.1	4.6	4.9	3.8	4.4	4.1	4.6	4.9
	6H	5.6	6.1	5.9	6.3	6.6	5.6	6.1	5.9	6.3	6.6
	8H	6.8	7.3	7.1	7.6	7.8	6.8	7.3	7.1	7.6	7.8
4H	12H	8.1	8.6	8.5	8.9	9.2	8.1	8.6	8.5	8.9	9.2
	2H	-0.9	-0.3	-0.6	-0.1	0.2	-0.9	-0.3	-0.6	-0.1	0.2
	3H	2.9	3.4	3.2	3.7	4.0	2.9	3.4	3.2	3.7	4.0
	4H	5.3	5.7	5.7	6.1	6.4	5.3	5.7	5.7	6.1	6.4
	6H	7.2	7.6	7.6	7.9	8.3	7.2	7.6	7.6	7.9	8.3
8H	8H	8.6	8.9	9.0	9.2	9.6	8.6	8.9	9.0	9.2	9.6
	12H	10.0	10.3	10.4	10.7	11.1	10.0	10.3	10.4	10.7	11.1
	4H	6.0	6.3	6.5	6.7	7.1	6.0	6.3	6.5	6.7	7.1
	6H	8.2	8.5	8.7	8.9	9.3	8.2	8.5	8.7	8.9	9.3
	8H	9.8	10.0	10.3	10.5	10.9	9.8	10.0	10.3	10.5	10.9
12H	12H	11.5	11.6	12.0	12.1	12.6	11.5	11.6	12.0	12.1	12.6
	4H	6.3	6.5	6.7	6.9	7.3	6.3	6.5	6.7	6.9	7.3
	6H	8.6	8.8	9.1	9.2	9.7	8.6	8.8	9.1	9.2	9.7
	8H	10.3	10.5	10.8	10.9	11.4	10.3	10.5	10.8	10.9	11.4
	Variation of the observer position for the luminaire distances S										
S = 1.0H		+0.1 / -0.2					+0.1 / -0.2				
S = 1.5H		+0.3 / -0.3					+0.3 / -0.3				
S = 2.0H		+0.6 / -0.5					+0.6 / -0.5				
Standard table		---					---				
Correction		---					---				
Summand		---					---				
Corrected Glare Indices referring to 250lm Total Luminous Flux											



DIMENSIONS



AWARDS



Name	BLACK FOSTER REC 1 SPOT DIM DALI 4000K NMG
Reference	A3191142NMG
Color	Matt black-Metallized gold
RAL	Metalllic finish
Category	CEILING RECESSED

PRODUCT

LIGHTING INFORMATION

Light source	LED
Gross luminous flux	250 Lm
Power	2,1 W
Power values of the system	3,23 W
Colour temperature	4000 K
Colour Rendering Index	CRI>90
Chromatic stability	MacAdam Step 3
Light beam angle	19°
Lighting efficiency	90%
Efficacy	119 Lm/W
Current intensity	700 mA
Dimming	DALI
Control through bluetooth	Please Consult
Driver	Included - Connected
Emergency power supply	Please Consult
Electrical insulation class	□
Voltage	220 V/240 V
Frequency	50/60 Hz
Energy efficiency	A++
LED lifespan	L80B10 (Tc=85°C) >60.000h

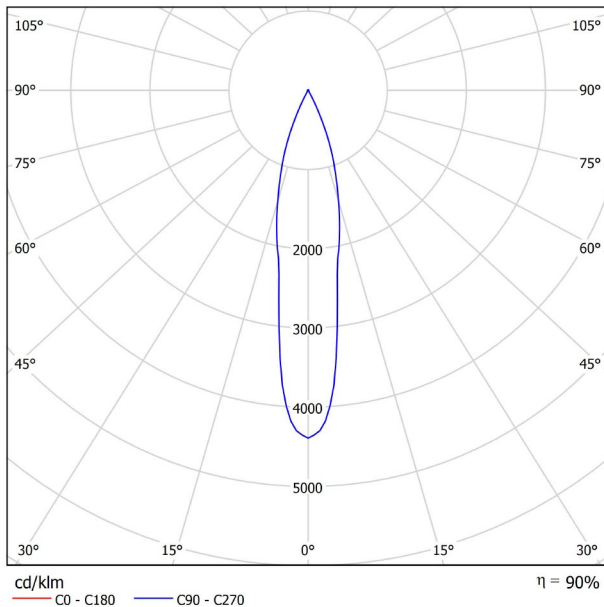
OTHER DATA

Ingress Protection	IP20
Recess measurements	50 × 50 mm.
Weight	160 g.
Packaged weight	255 g.
Packaging dimensions	168 × 98 × 74 mm
Units per package	1
Materials	Aluminium / Acrylonitrile Butadiene Styrene

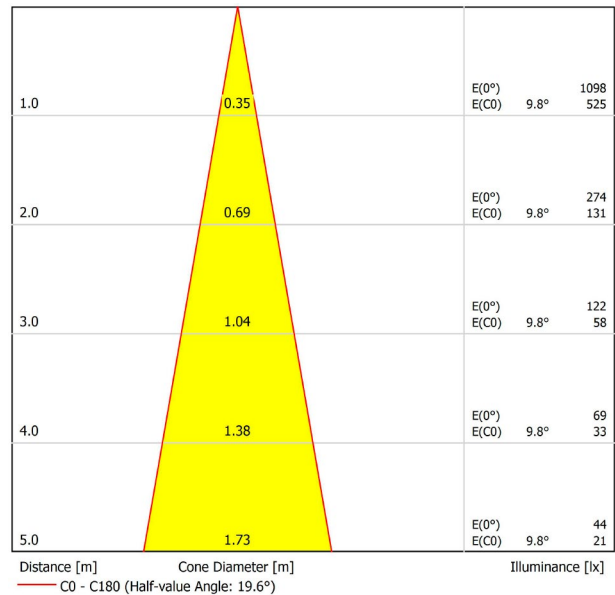


Black Foster is the product that transfers the claimed effect "The Invisible Black" to a recessed-isolated lineal luminary; also available in trimless version. If we take a closer view to the recessed model, its bezel is so thin than when lighted up, it is unperceived; offering an aesthetic of "visual trimless". Black Foster stands out for its refinement, its visual comfort and for almost completely hide the source of light from the human eye range.

POLAR DIAGRAM



CONICAL DIAGRAM

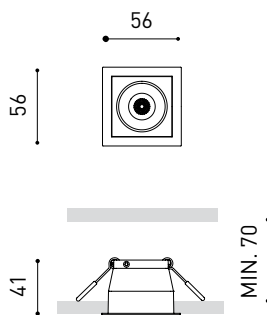


UGR

Glare Evaluation According to UGR												
ρ Ceiling		70	70	50	50	30	70	70	50	50	30	
ρ Walls		50	30	50	30	30	50	30	50	30	30	
ρ Floor		20	20	20	20	20	20	20	20	20	20	
Room Size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis					
2H	2H	-2.5	-1.9	-2.3	-1.7	-1.5	-2.5	-1.9	-2.3	-1.7	-1.5	
	3H	1.4	2.0	1.7	2.2	2.4	1.4	2.0	1.7	2.2	2.4	
	4H	3.8	4.4	4.1	4.6	4.9	3.8	4.4	4.1	4.6	4.9	
	6H	5.6	6.1	5.9	6.3	6.6	5.6	6.1	5.9	6.3	6.6	
	8H	6.8	7.3	7.1	7.6	7.8	6.8	7.3	7.1	7.6	7.8	
4H	12H	8.1	8.6	8.5	8.9	9.2	8.1	8.6	8.5	8.9	9.2	
	2H	-0.9	-0.3	-0.6	-0.1	0.2	-0.9	-0.3	-0.6	-0.1	0.2	
	3H	2.9	3.4	3.2	3.7	4.0	2.9	3.4	3.2	3.7	4.0	
	4H	5.3	5.7	5.7	6.1	6.4	5.3	5.7	5.7	6.1	6.4	
	6H	7.2	7.6	7.6	7.9	8.3	7.2	7.6	7.6	7.9	8.3	
8H	8H	8.6	8.9	9.0	9.2	9.6	8.6	8.9	9.0	9.2	9.6	
	12H	10.0	10.3	10.4	10.7	11.1	10.0	10.3	10.4	10.7	11.1	
	4H	6.0	6.3	6.5	6.7	7.1	6.0	6.3	6.5	6.7	7.1	
	6H	8.2	8.5	8.7	8.9	9.3	8.2	8.5	8.7	8.9	9.3	
	8H	9.8	10.0	10.3	10.5	10.9	9.8	10.0	10.3	10.5	10.9	
12H	12H	11.5	11.6	12.0	12.1	12.6	11.5	11.6	12.0	12.1	12.6	
	4H	6.3	6.5	6.7	6.9	7.3	6.3	6.5	6.7	6.9	7.3	
	6H	8.6	8.8	9.1	9.2	9.7	8.6	8.8	9.1	9.2	9.7	
	8H	10.3	10.5	10.8	10.9	11.4	10.3	10.5	10.8	10.9	11.4	
	Variation of the observer position for the luminaire distances S											
S = 1.0H		+0.1 / -0.2					+0.1 / -0.2					
S = 1.5H		+0.3 / -0.3					+0.3 / -0.3					
S = 2.0H		+0.6 / -0.5					+0.6 / -0.5					
Standard table		---					---					
Correction		---					---					
Summand		---					---					
Corrected Glare Indices referring to 250lm Total Luminous Flux												



DIMENSIONS



AWARDS



Name	BLACK FOSTER REC 1 SPOT DIM DALI 4000K WN
Reference	A3191142WN
Color	White-Black
RAL	Colour in the mass looks alike RAL 9016 & 9005
Category	CEILING RECESSED

PRODUCT

BLACK FOSTER REC 1 SPOT DIM DALI 4000K WN

A3191142WN

White-Black

Colour in the mass looks alike RAL 9016 & 9005

CEILING RECESSED

LIGHTING INFORMATION

Light source	LED
Gross luminous flux	250 Lm
Power	2,1 W
Power values of the system	2,56 W
Colour temperature	4000 K
Colour Rendering Index	CRI>90
Chromatic stability	MacAdam Step 3
Light beam angle	19°
Lighting efficiency	90%
Efficacy	119 Lm/W
Current intensity	700 mA
Dimming	DALI
Control through bluetooth	Please Consult
Driver	Included - Connected
Emergency power supply	Please Consult
Electrical insulation class	□
Voltage	220 V/240 V
Frequency	50/60 Hz
Energy efficiency	A++
LED lifespan	L80B10 (Tc=85°C) >60.000h

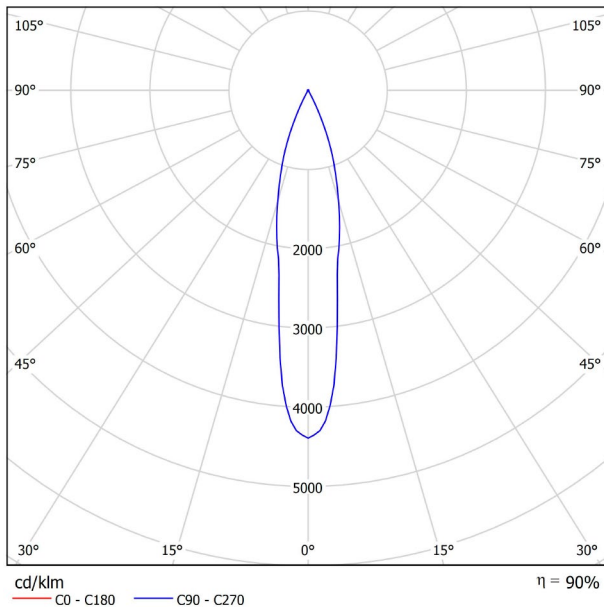
OTHER DATA

Ingress Protection	IP20
Recess measurements	50 × 50 mm.
Weight	160 g.
Packaged weight	255 g.
Packaging dimensions	168 × 98 × 74 mm
Units per package	1
Materials	Aluminium / Acrylonitrile Butadiene Styrene

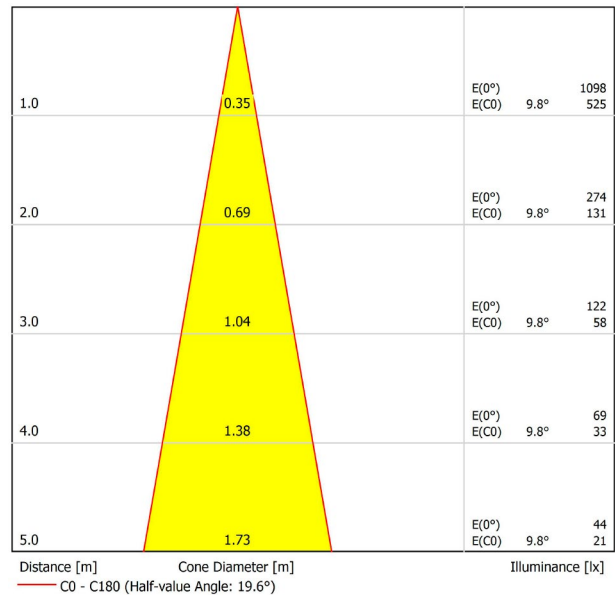


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POLAR DIAGRAM



CONICAL DIAGRAM

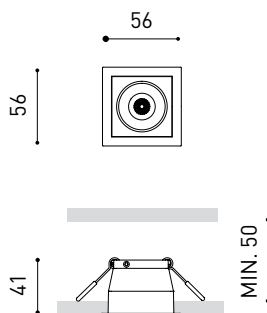


UGR

Glare Evaluation According to UGR												
ρ Ceiling		70	70	50	50	30	70	70	50	50	30	
ρ Walls		50	30	50	30	30	50	30	50	30	30	
ρ Floor		20	20	20	20	20	20	20	20	20	20	
Room Size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis					
2H	2H	-2.5	-1.9	-2.3	-1.7	-1.5	-2.5	-1.9	-2.3	-1.7	-1.5	
	3H	1.4	2.0	1.7	2.2	2.4	1.4	2.0	1.7	2.2	2.4	
	4H	3.8	4.4	4.1	4.6	4.9	3.8	4.4	4.1	4.6	4.9	
	6H	5.6	6.1	5.9	6.3	6.6	5.6	6.1	5.9	6.3	6.6	
	8H	6.8	7.3	7.1	7.6	7.8	6.8	7.3	7.1	7.6	7.8	
4H	12H	8.1	8.6	8.5	8.9	9.2	8.1	8.6	8.5	8.9	9.2	
	2H	-0.9	-0.3	-0.6	-0.1	0.2	-0.9	-0.3	-0.6	-0.1	0.2	
	3H	2.9	3.4	3.2	3.7	4.0	2.9	3.4	3.2	3.7	4.0	
	4H	5.3	5.7	5.7	6.1	6.4	5.3	5.7	5.7	6.1	6.4	
	6H	7.2	7.6	7.6	7.9	8.3	7.2	7.6	7.6	7.9	8.3	
8H	8H	8.6	8.9	9.0	9.2	9.6	8.6	8.9	9.0	9.2	9.6	
	12H	10.0	10.3	10.4	10.7	11.1	10.0	10.3	10.4	10.7	11.1	
	4H	6.0	6.3	6.5	6.7	7.1	6.0	6.3	6.5	6.7	7.1	
	6H	8.2	8.5	8.7	8.9	9.3	8.2	8.5	8.7	8.9	9.3	
	8H	9.8	10.0	10.3	10.5	10.9	9.8	10.0	10.3	10.5	10.9	
12H	12H	11.5	11.6	12.0	12.1	12.6	11.5	11.6	12.0	12.1	12.6	
	4H	6.3	6.5	6.7	6.9	7.3	6.3	6.5	6.7	6.9	7.3	
	6H	8.6	8.8	9.1	9.2	9.7	8.6	8.8	9.1	9.2	9.7	
	8H	10.3	10.5	10.8	10.9	11.4	10.3	10.5	10.8	10.9	11.4	
	Variation of the observer position for the luminaire distances S											
S = 1.0H		+0.1 / -0.2					+0.1 / -0.2					
S = 1.5H		+0.3 / -0.3					+0.3 / -0.3					
S = 2.0H		+0.6 / -0.5					+0.6 / -0.5					
Standard table		---					---					
Correction		---					---					
Summand		---					---					
Corrected Glare Indices referring to 250lm Total Luminous Flux												



DIMENSIONS



AWARDS



Name	BLACK FOSTER REC 1 SPOT 2700K N
Reference	A3191110N
Color	Matt black
RAL	9005
Category	CEILING RECESSED

PRODUCT

Light source	LED
Gross luminous flux	190 Lm
Power	2,1 W
Power values of the system	3,23 W
Colour temperature	2700 K
Colour Rendering Index	CRI>90
Chromatic stability	MacAdam Step 3
Light beam angle	19°
Lighting efficiency	90%
Efficacy	90 Lm/W
Current intensity	700 mA
Control through bluetooth	Please Consult
Driver	Included - Connected
Emergency power supply	Please Consult
Electrical insulation class	
Voltage	220 V/240 V
Frequency	50/60 Hz
Energy efficiency	A++
LED lifespan	L80B10 (Tc=85°C) >60.000h

LIGHTING INFORMATION

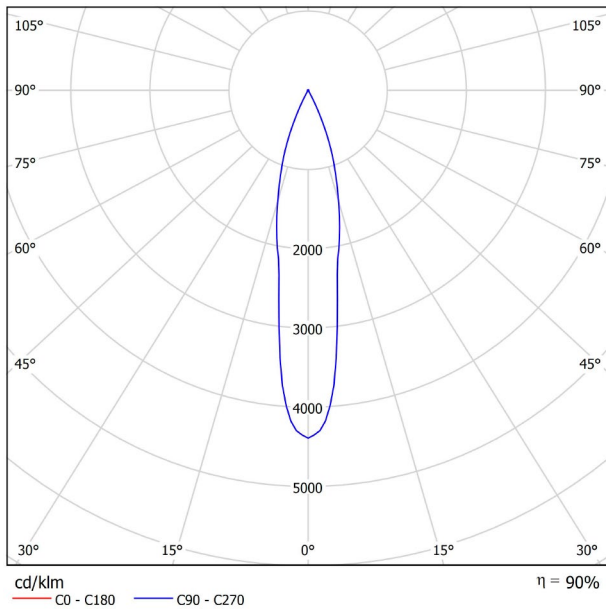
Ingress Protection	IP20
Recess measurements	50 × 50 mm.
Weight	85 g.
Packaged weight	130 g.
Packaging dimensions	78 × 98 × 50 mm
Units per package	1
Materials	Aluminium / Acrylonitrile Butadiene Styrene

OTHER DATA

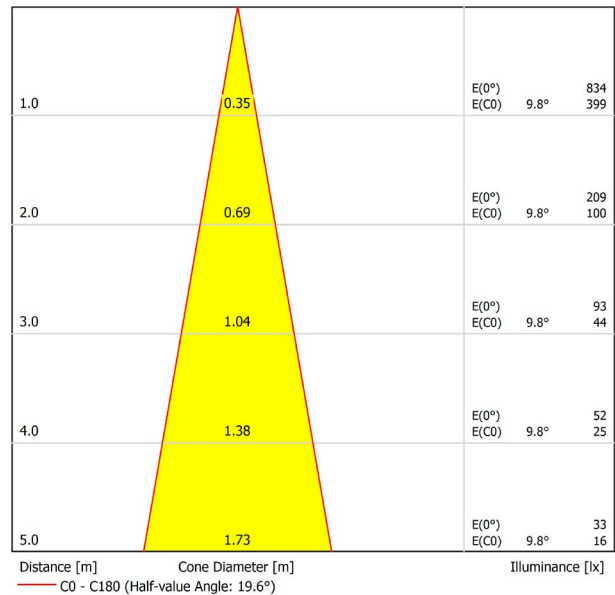


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POLAR DIAGRAM



CONICAL DIAGRAM

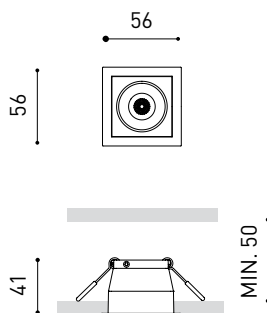


UGR

Glare Evaluation According to UGR												
ρ Ceiling		70	70	50	50	30	70	70	50	50	30	
ρ Walls		50	30	50	30	30	50	30	50	30	30	
ρ Floor		20	20	20	20	20	20	20	20	20	20	
Room Size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis					
2H	2H	-3.5	-2.8	-3.2	-2.6	-2.4	-3.5	-2.8	-3.2	-2.6	-2.4	
	3H	0.4	1.0	0.7	1.3	1.5	0.4	1.0	0.7	1.3	1.5	
	4H	2.9	3.4	3.2	3.7	3.9	2.9	3.4	3.2	3.7	3.9	
	6H	4.6	5.1	4.9	5.4	5.7	4.6	5.1	4.9	5.4	5.7	
	8H	5.8	6.3	6.2	6.6	6.9	5.8	6.3	6.2	6.6	6.9	
4H	12H	7.2	7.6	7.5	7.9	8.2	7.2	7.6	7.5	7.9	8.2	
	2H	-1.8	-1.3	-1.5	-1.0	-0.8	-1.8	-1.3	-1.5	-1.0	-0.8	
	3H	1.9	2.4	2.3	2.7	3.0	1.9	2.4	2.3	2.7	3.0	
	4H	4.4	4.8	4.7	5.1	5.4	4.4	4.8	4.7	5.1	5.4	
	6H	6.3	6.6	6.7	7.0	7.3	6.3	6.6	6.7	7.0	7.3	
8H	8H	7.6	7.9	8.0	8.3	8.7	7.6	7.9	8.0	8.3	8.7	
	12H	9.1	9.3	9.5	9.7	10.1	9.1	9.3	9.5	9.7	10.1	
	4H	5.1	5.4	5.5	5.8	6.2	5.1	5.4	5.5	5.8	6.2	
	6H	7.3	7.5	7.7	7.9	8.4	7.3	7.5	7.7	7.9	8.4	
	8H	8.9	9.1	9.3	9.5	10.0	8.9	9.1	9.3	9.5	10.0	
12H	12H	10.5	10.7	11.0	11.1	11.6	10.5	10.7	11.0	11.1	11.6	
	4H	5.3	5.5	5.7	5.9	6.4	5.3	5.5	5.7	5.9	6.4	
	6H	7.7	7.8	8.1	8.3	8.7	7.7	7.8	8.1	8.3	8.7	
	8H	9.4	9.5	9.9	10.0	10.5	9.4	9.5	9.9	10.0	10.5	
	Variation of the observer position for the luminaire distances S											
S = 1.0H		+0.1 / -0.2					+0.1 / -0.2					
S = 1.5H		+0.3 / -0.3					+0.3 / -0.3					
S = 2.0H		+0.6 / -0.5					+0.6 / -0.5					
Standard table		---					---					
Correction		---					---					
Summand		---					---					
Corrected Glare Indices referring to 190lm Total Luminous Flux												



DIMENSIONS



AWARDS

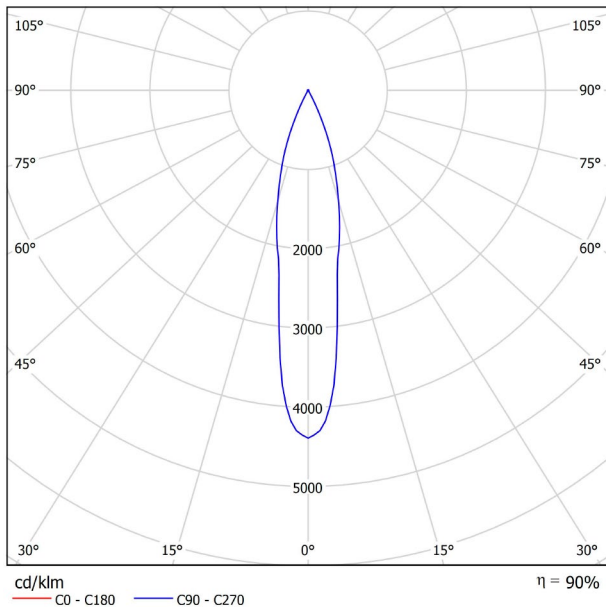


PRODUCT	
Name	BLACK FOSTER REC 1 SPOT 2700K NMG
Reference	A3191110NMG
Color	Matt black-Metallized gold
RAL	Metallic finish
Category	CEILING RECESSED
LIGHTING INFORMATION	
Light source	LED
Gross luminous flux	190 Lm
Power	2,1 W
Power values of the system	3,23 W
Colour temperature	2700 K
Colour Rendering Index	CRI>90
Chromatic stability	MacAdam Step 3
Light beam angle	19°
Lighting efficiency	90%
Efficacy	90 Lm/W
Current intensity	700 mA
Control through bluetooth	Please Consult
Driver	Included - Connected
Emergency power supply	Please Consult
Electrical insulation class	□
Voltage	220 V/240 V
Frequency	50/60 Hz
Energy efficiency	A++
LED lifespan	L80B10 (Tc=85°C) >60.000h
OTHER DATA	
Ingress Protection	IP20
Recess measurements	50 × 50 mm.
Weight	85 g.
Packaged weight	130 g.
Packaging dimensions	78 × 98 × 50 mm
Units per package	1
Materials	Aluminium / Acrylonitrile Butadiene Styrene

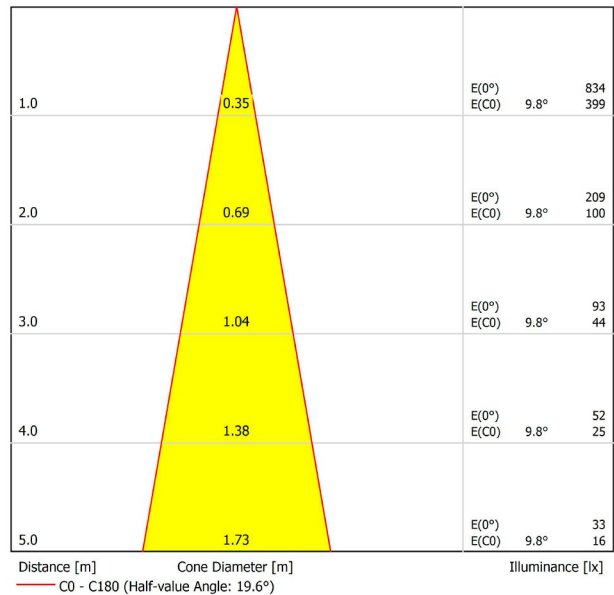


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POLAR DIAGRAM



CONICAL DIAGRAM

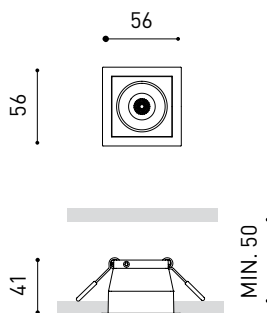


UGR

Glare Evaluation According to UGR												
ρ Ceiling		70	70	50	50	30	70	70	50	50	30	
ρ Walls		50	30	50	30	30	50	30	50	30	30	
ρ Floor		20	20	20	20	20	20	20	20	20	20	
Room Size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis					
2H	2H	-3.5	-2.8	-3.2	-2.6	-2.4	-3.5	-2.8	-3.2	-2.6	-2.4	
	3H	0.4	1.0	0.7	1.3	1.5	0.4	1.0	0.7	1.3	1.5	
	4H	2.9	3.4	3.2	3.7	3.9	2.9	3.4	3.2	3.7	3.9	
	6H	4.6	5.1	4.9	5.4	5.7	4.6	5.1	4.9	5.4	5.7	
	8H	5.8	6.3	6.2	6.6	6.9	5.8	6.3	6.2	6.6	6.9	
4H	12H	7.2	7.6	7.5	7.9	8.2	7.2	7.6	7.5	7.9	8.2	
	2H	-1.8	-1.3	-1.5	-1.0	-0.8	-1.8	-1.3	-1.5	-1.0	-0.8	
	3H	1.9	2.4	2.3	2.7	3.0	1.9	2.4	2.3	2.7	3.0	
	4H	4.4	4.8	4.7	5.1	5.4	4.4	4.8	4.7	5.1	5.4	
	6H	6.3	6.6	6.7	7.0	7.3	6.3	6.6	6.7	7.0	7.3	
8H	8H	7.6	7.9	8.0	8.3	8.7	7.6	7.9	8.0	8.3	8.7	
	12H	9.1	9.3	9.5	9.7	10.1	9.1	9.3	9.5	9.7	10.1	
	4H	5.1	5.4	5.5	5.8	6.2	5.1	5.4	5.5	5.8	6.2	
	6H	7.3	7.5	7.7	7.9	8.4	7.3	7.5	7.7	7.9	8.4	
	8H	8.9	9.1	9.3	9.5	10.0	8.9	9.1	9.3	9.5	10.0	
12H	12H	10.5	10.7	11.0	11.1	11.6	10.5	10.7	11.0	11.1	11.6	
	4H	5.3	5.5	5.7	5.9	6.4	5.3	5.5	5.7	5.9	6.4	
	6H	7.7	7.8	8.1	8.3	8.7	7.7	7.8	8.1	8.3	8.7	
	8H	9.4	9.5	9.9	10.0	10.5	9.4	9.5	9.9	10.0	10.5	
Variation of the observer position for the luminaire distances S												
S = 1.0H		+0.1 / -0.2					+0.1 / -0.2					
S = 1.5H		+0.3 / -0.3					+0.3 / -0.3					
S = 2.0H		+0.6 / -0.5					+0.6 / -0.5					
Standard table		---					---					
Correction		---					---					
Summand												
Corrected Glare Indices referring to 190lm Total Luminous Flux												



DIMENSIONS



AWARDS



Name	BLACK FOSTER REC 1 SPOT 2700K WN
Reference	A3191110WN
Color	White-Black
RAL	Colour in the mass looks alike RAL 9016 & 9005
Category	CEILING RECESSED

PRODUCT

BLACK FOSTER REC 1 SPOT 2700K WN

A3191110WN

White-Black

Colour in the mass looks alike RAL 9016 & 9005

CEILING RECESSED

LIGHTING INFORMATION

Light source	LED
Gross luminous flux	190 Lm
Power	2,1 W
Power values of the system	3,23 W
Colour temperature	2700 K
Colour Rendering Index	CRI>90
Chromatic stability	MacAdam Step 3
Light beam angle	19°
Lighting efficiency	90%
Efficacy	90 Lm/W
Current intensity	700 mA
Control through bluetooth	Please Consult
Driver	Included - Connected
Emergency power supply	Please Consult
Electrical insulation class	□
Voltage	220 V/240 V
Frequency	50/60 Hz
Energy efficiency	A++
LED lifespan	L80B10 (Tc=85°C) >60.000h

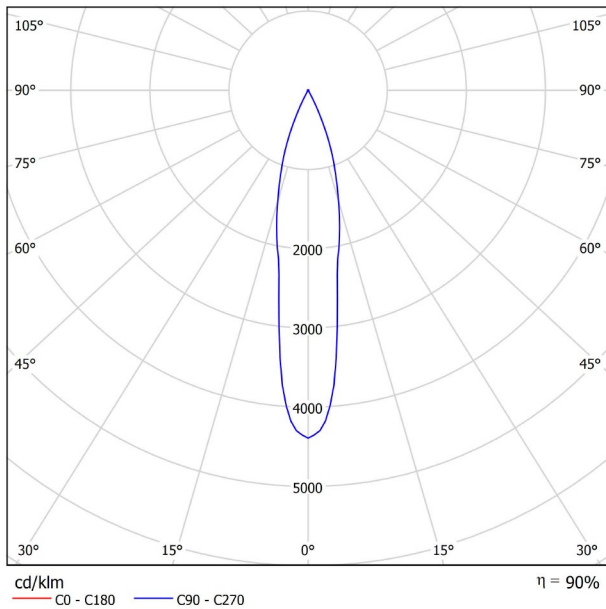
OTHER DATA

Ingress Protection	IP20
Recess measurements	50 × 50 mm.
Weight	85 g.
Packaged weight	130 g.
Packaging dimensions	78 × 98 × 50 mm
Units per package	1
Materials	Aluminium / Acrylonitrile Butadiene Styrene

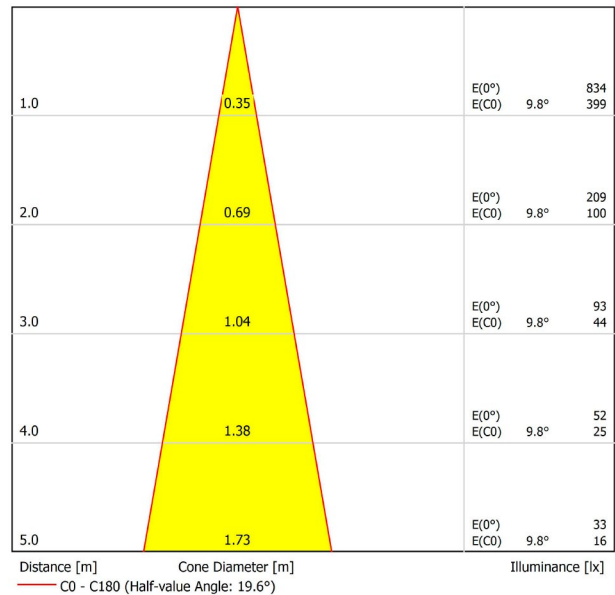


Black Foster is the product that transfers the claimed effect "The Invisible Black" to a recessed-isolated lineal luminary; also available in trimless version. If we take a closer view to the recessed model, its bezel is so thin than when lighted up, it is unperceived; offering an aesthetic of "visual trimless". Black Foster stands out for its refinement, its visual comfort and for almost completely hide the source of light from the human eye range.

POLAR DIAGRAM



CONICAL DIAGRAM

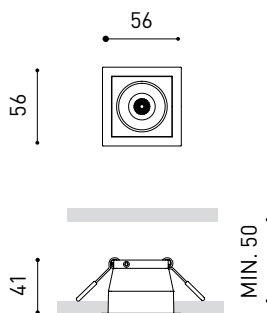


UGR

Glare Evaluation According to UGR												
ρ Ceiling		70	70	50	50	30	70	70	50	50	30	
ρ Walls		50	30	50	30	30	50	30	50	30	30	
ρ Floor		20	20	20	20	20	20	20	20	20	20	
Room Size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis					
2H	2H	-3.5	-2.8	-3.2	-2.6	-2.4	-3.5	-2.8	-3.2	-2.6	-2.4	
	3H	0.4	1.0	0.7	1.3	1.5	0.4	1.0	0.7	1.3	1.5	
	4H	2.9	3.4	3.2	3.7	3.9	2.9	3.4	3.2	3.7	3.9	
	6H	4.6	5.1	4.9	5.4	5.7	4.6	5.1	4.9	5.4	5.7	
	8H	5.8	6.3	6.2	6.6	6.9	5.8	6.3	6.2	6.6	6.9	
4H	12H	7.2	7.6	7.5	7.9	8.2	7.2	7.6	7.5	7.9	8.2	
	2H	-1.8	-1.3	-1.5	-1.0	-0.8	-1.8	-1.3	-1.5	-1.0	-0.8	
	3H	1.9	2.4	2.3	2.7	3.0	1.9	2.4	2.3	2.7	3.0	
	4H	4.4	4.8	4.7	5.1	5.4	4.4	4.8	4.7	5.1	5.4	
	6H	6.3	6.6	6.7	7.0	7.3	6.3	6.6	6.7	7.0	7.3	
8H	8H	7.6	7.9	8.0	8.3	8.7	7.6	7.9	8.0	8.3	8.7	
	12H	9.1	9.3	9.5	9.7	10.1	9.1	9.3	9.5	9.7	10.1	
	4H	5.1	5.4	5.5	5.8	6.2	5.1	5.4	5.5	5.8	6.2	
	6H	7.3	7.5	7.7	7.9	8.4	7.3	7.5	7.7	7.9	8.4	
	8H	8.9	9.1	9.3	9.5	10.0	8.9	9.1	9.3	9.5	10.0	
12H	12H	10.5	10.7	11.0	11.1	11.6	10.5	10.7	11.0	11.1	11.6	
	4H	5.3	5.5	5.7	5.9	6.4	5.3	5.5	5.7	5.9	6.4	
	6H	7.7	7.8	8.1	8.3	8.7	7.7	7.8	8.1	8.3	8.7	
	8H	9.4	9.5	9.9	10.0	10.5	9.4	9.5	9.9	10.0	10.5	
	Variation of the observer position for the luminaire distances S											
S = 1.0H		+0.1 / -0.2					+0.1 / -0.2					
S = 1.5H		+0.3 / -0.3					+0.3 / -0.3					
S = 2.0H		+0.6 / -0.5					+0.6 / -0.5					
Standard table		---					---					
Correction		---					---					
Summand		---					---					
Corrected Glare Indices referring to 190lm Total Luminous Flux												



DIMENSIONS



AWARDS



Name	BLACK FOSTER REC 1 SPOT 3000K N
Reference	A3191111N
Color	Matt black
RAL	9005
Category	CEILING RECESSED

PRODUCT

BLACK FOSTER REC 1 SPOT 3000K N

A3191111N

Matt black

9005

CEILING RECESSED

LIGHTING INFORMATION

Light source	LED
Gross luminous flux	210 Lm
Power	2,1 W
Power values of the system	3,23 W
Colour temperature	3000 K
Colour Rendering Index	CRI>90
Chromatic stability	MacAdam Step 3
Light beam angle	19°
Lighting efficiency	90%
Efficacy	100 Lm/W
Current intensity	700 mA
Control through bluetooth	Please Consult
Driver	Included - Connected
Emergency power supply	Please Consult
Electrical insulation class	□
Voltage	220 V/240 V
Frequency	50/60 Hz
Energy efficiency	A++
LED lifespan	L80B10 (Tc=85°C) >60.000h

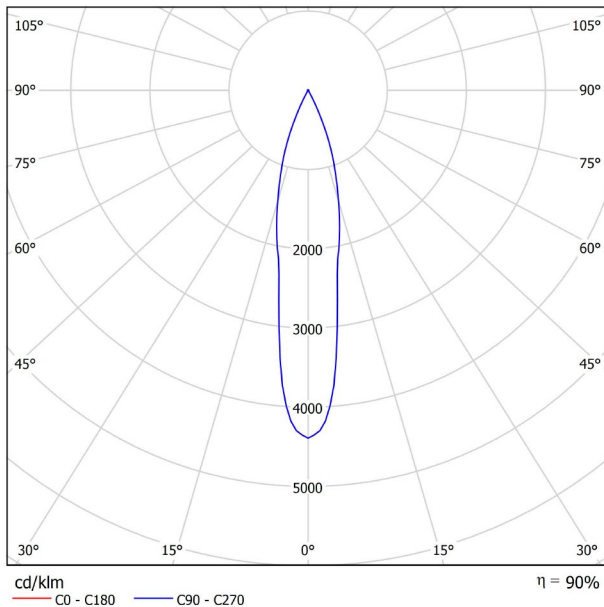
OTHER DATA

Ingress Protection	IP20
Recess measurements	50 × 50 mm.
Weight	85 g.
Packaged weight	130 g.
Packaging dimensions	78 × 98 × 50 mm
Units per package	1
Materials	Aluminium / Acrylonitrile Butadiene Styrene

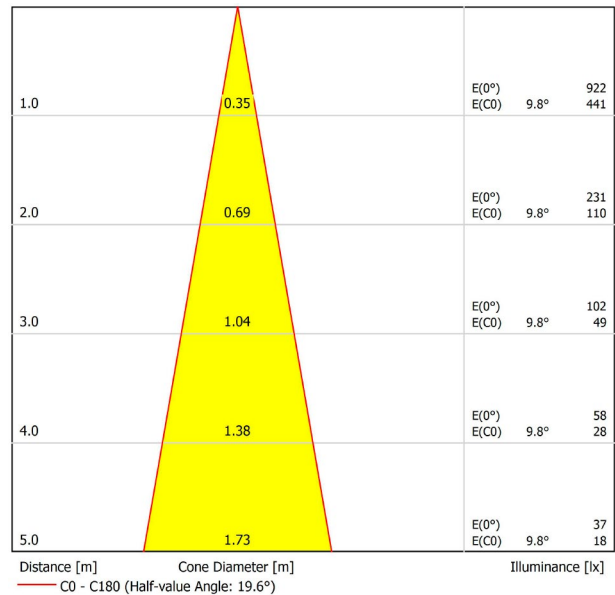


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POLAR DIAGRAM



CONICAL DIAGRAM

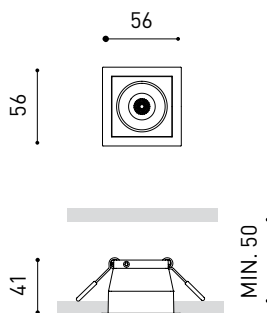


UGR

Glare Evaluation According to UGR												
ρ Ceiling		70	70	50	50	30	70	70	50	50	30	
ρ Walls		50	30	50	30	30	50	30	50	30	30	
ρ Floor		20	20	20	20	20	20	20	20	20	20	
Room Size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis					
2H	2H	-3.1	-2.5	-2.9	-2.3	-2.1	-3.1	-2.5	-2.9	-2.3	-2.1	
	3H	0.8	1.4	1.1	1.6	1.8	0.8	1.4	1.1	1.6	1.8	
	4H	3.2	3.8	3.5	4.0	4.3	3.2	3.8	3.5	4.0	4.3	
	6H	5.0	5.5	5.3	5.7	6.0	5.0	5.5	5.3	5.7	6.0	
	8H	6.2	6.7	6.5	6.9	7.2	6.2	6.7	6.5	6.9	7.2	
4H	12H	7.5	8.0	7.9	8.3	8.6	7.5	8.0	7.9	8.3	8.6	
	2H	-1.5	-0.9	-1.2	-0.7	-0.4	-1.5	-0.9	-1.2	-0.7	-0.4	
	3H	2.3	2.7	2.6	3.0	3.4	2.3	2.7	2.6	3.0	3.4	
	4H	4.7	5.1	5.1	5.4	5.8	4.7	5.1	5.1	5.4	5.8	
	6H	6.6	6.9	7.0	7.3	7.7	6.6	6.9	7.0	7.3	7.7	
8H	8H	8.0	8.2	8.4	8.6	9.0	8.0	8.2	8.4	8.6	9.0	
	12H	9.4	9.7	9.8	10.0	10.5	9.4	9.7	9.8	10.0	10.5	
	4H	5.4	5.7	5.9	6.1	6.5	5.4	5.7	5.9	6.1	6.5	
	6H	7.6	7.9	8.1	8.3	8.7	7.6	7.9	8.1	8.3	8.7	
	8H	9.2	9.4	9.7	9.8	10.3	9.2	9.4	9.7	9.8	10.3	
12H	12H	10.9	11.0	11.4	11.5	12.0	10.9	11.0	11.4	11.5	12.0	
	4H	5.6	5.9	6.1	6.3	6.7	5.6	5.9	6.1	6.3	6.7	
	6H	8.0	8.2	8.5	8.6	9.1	8.0	8.2	8.5	8.6	9.1	
	8H	9.7	9.9	10.2	10.3	10.8	9.7	9.9	10.2	10.3	10.8	
	Variation of the observer position for the luminaire distances S											
S = 1.0H		+0.1 / -0.2					+0.1 / -0.2					
S = 1.5H		+0.3 / -0.3					+0.3 / -0.3					
S = 2.0H		+0.6 / -0.5					+0.6 / -0.5					
Standard table		---					---					
Correction		---					---					
Summand		---					---					
Corrected Glare Indices referring to 210lm Total Luminous Flux												



DIMENSIONS



AWARDS

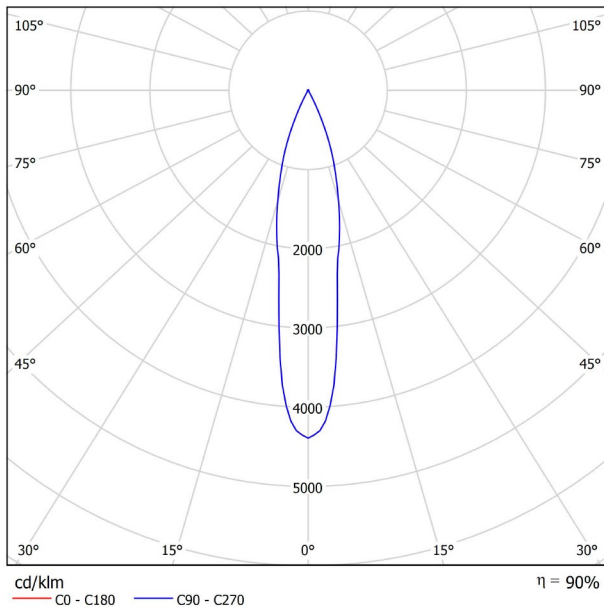


PRODUCT	
Name	BLACK FOSTER REC 1 SPOT 3000K NMG
Reference	A3191111NMG
Color	Matt black-Metallized gold
RAL	Metalllic finish
Category	CEILING RECESSED
LIGHTING INFORMATION	
Light source	LED
Gross luminous flux	210 Lm
Power	2,1 W
Power values of the system	3,23 W
Colour temperature	3000 K
Colour Rendering Index	CRI>90
Chromatic stability	MacAdam Step 3
Light beam angle	19°
Lighting efficiency	90%
Efficacy	100 Lm/W
Current intensity	700 mA
Control through bluetooth	Please Consult
Driver	Included - Connected
Emergency power supply	Please Consult
Electrical insulation class	□
Voltage	220 V/240 V
Frequency	50/60 Hz
Energy efficiency	A++
LED lifespan	L80B10 (Tc=85°C) >60.000h
OTHER DATA	
Ingress Protection	IP20
Recess measurements	50 × 50 mm.
Weight	85 g.
Packaged weight	130 g.
Packaging dimensions	78 × 98 × 50 mm
Units per package	1
Materials	Aluminium / Acrylonitrile Butadiene Styrene

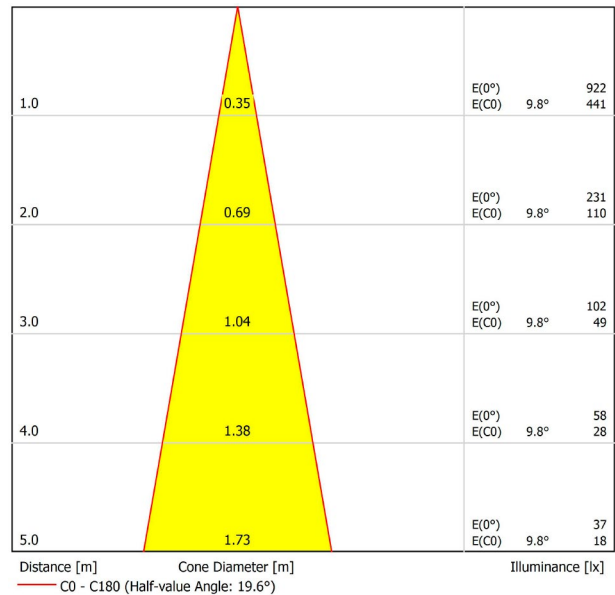


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POLAR DIAGRAM



CONICAL DIAGRAM

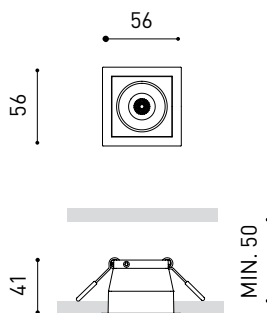


UGR

Glare Evaluation According to UGR												
ρ Ceiling		70	70	50	50	30	70	70	50	50	30	
ρ Walls		50	30	50	30	30	50	30	50	30	30	
ρ Floor		20	20	20	20	20	20	20	20	20	20	
Room Size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis					
2H	2H	-3.1	-2.5	-2.9	-2.3	-2.1	-3.1	-2.5	-2.9	-2.3	-2.1	
	3H	0.8	1.4	1.1	1.6	1.8	0.8	1.4	1.1	1.6	1.8	
	4H	3.2	3.8	3.5	4.0	4.3	3.2	3.8	3.5	4.0	4.3	
	6H	5.0	5.5	5.3	5.7	6.0	5.0	5.5	5.3	5.7	6.0	
	8H	6.2	6.7	6.5	6.9	7.2	6.2	6.7	6.5	6.9	7.2	
4H	12H	7.5	8.0	7.9	8.3	8.6	7.5	8.0	7.9	8.3	8.6	
	2H	-1.5	-0.9	-1.2	-0.7	-0.4	-1.5	-0.9	-1.2	-0.7	-0.4	
	3H	2.3	2.7	2.6	3.0	3.4	2.3	2.7	2.6	3.0	3.4	
	4H	4.7	5.1	5.1	5.4	5.8	4.7	5.1	5.1	5.4	5.8	
	6H	6.6	6.9	7.0	7.3	7.7	6.6	6.9	7.0	7.3	7.7	
8H	8H	8.0	8.2	8.4	8.6	9.0	8.0	8.2	8.4	8.6	9.0	
	12H	9.4	9.7	9.8	10.0	10.5	9.4	9.7	9.8	10.0	10.5	
	4H	5.4	5.7	5.9	6.1	6.5	5.4	5.7	5.9	6.1	6.5	
	6H	7.6	7.9	8.1	8.3	8.7	7.6	7.9	8.1	8.3	8.7	
	8H	9.2	9.4	9.7	9.8	10.3	9.2	9.4	9.7	9.8	10.3	
12H	12H	10.9	11.0	11.4	11.5	12.0	10.9	11.0	11.4	11.5	12.0	
	4H	5.6	5.9	6.1	6.3	6.7	5.6	5.9	6.1	6.3	6.7	
	6H	8.0	8.2	8.5	8.6	9.1	8.0	8.2	8.5	8.6	9.1	
	8H	9.7	9.9	10.2	10.3	10.8	9.7	9.9	10.2	10.3	10.8	
	Variation of the observer position for the luminaire distances S											
S = 1.0H		+0.1 / -0.2					+0.1 / -0.2					
S = 1.5H		+0.3 / -0.3					+0.3 / -0.3					
S = 2.0H		+0.6 / -0.5					+0.6 / -0.5					
Standard table		---					---					
Correction		---					---					
Summand		---					---					
Corrected Glare Indices referring to 210lm Total Luminous Flux												



DIMENSIONS



AWARDS



Name	BLACK FOSTER REC 1 SPOT 3000K WN
Reference	A3191111WN
Color	White-Black
RAL	Colour in the mass looks alike RAL 9016 & 9005
Category	CEILING RECESSED

PRODUCT

Light source	LED
Gross luminous flux	210 Lm
Power	2,1 W
Power values of the system	3,23 W
Colour temperature	3000 K
Colour Rendering Index	CRI>90
Chromatic stability	MacAdam Step 3
Light beam angle	19°
Lighting efficiency	90%
Efficacy	100 Lm/W
Current intensity	700 mA
Control through bluetooth	Please Consult
Driver	Included - Connected
Emergency power supply	Please Consult
Electrical insulation class	□
Voltage	220 V/240 V
Frequency	50/60 Hz
Energy efficiency	A++
LED lifespan	L80B10 (Tc=85°C) >60.000h

LIGHTING INFORMATION

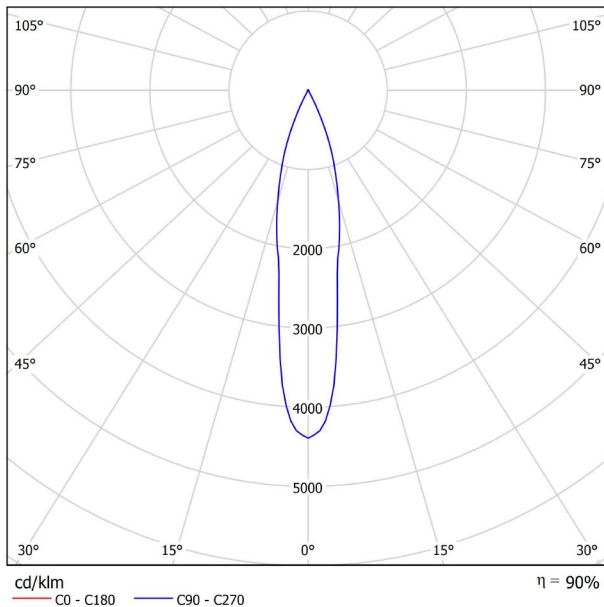
Ingress Protection	IP20
Recess measurements	50 × 50 mm.
Weight	85 g.
Packaged weight	130 g.
Packaging dimensions	78 × 98 × 50 mm
Units per package	1
Materials	Aluminium / Acrylonitrile Butadiene Styrene

OTHER DATA

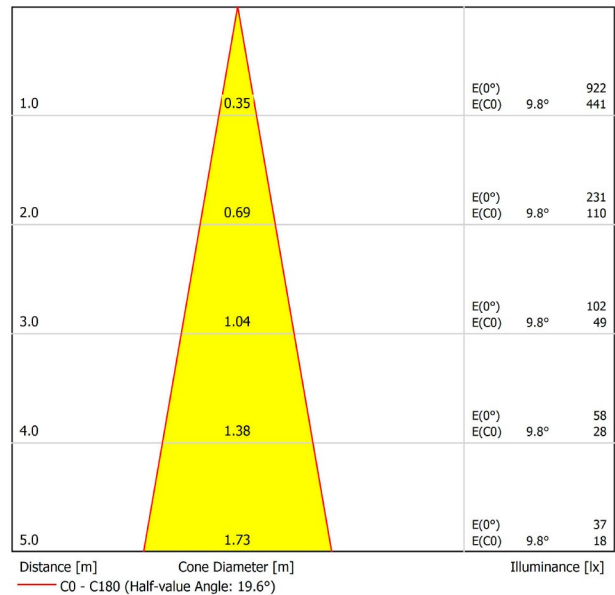


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POLAR DIAGRAM



CONICAL DIAGRAM

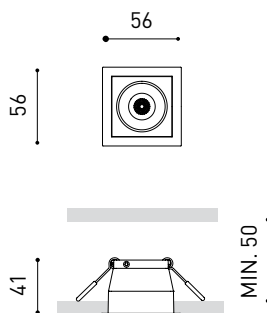


UGR

Glare Evaluation According to UGR												
ρ Ceiling		70	70	50	50	30	70	70	50	50	30	
ρ Walls		50	30	50	30	30	50	30	50	30	30	
ρ Floor		20	20	20	20	20	20	20	20	20	20	
Room Size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis					
2H	2H	-3.1	-2.5	-2.9	-2.3	-2.1	-3.1	-2.5	-2.9	-2.3	-2.1	
	3H	0.8	1.4	1.1	1.6	1.8	0.8	1.4	1.1	1.6	1.8	
	4H	3.2	3.8	3.5	4.0	4.3	3.2	3.8	3.5	4.0	4.3	
	6H	5.0	5.5	5.3	5.7	6.0	5.0	5.5	5.3	5.7	6.0	
	8H	6.2	6.7	6.5	6.9	7.2	6.2	6.7	6.5	6.9	7.2	
4H	12H	7.5	8.0	7.9	8.3	8.6	7.5	8.0	7.9	8.3	8.6	
	2H	-1.5	-0.9	-1.2	-0.7	-0.4	-1.5	-0.9	-1.2	-0.7	-0.4	
	3H	2.3	2.7	2.6	3.0	3.4	2.3	2.7	2.6	3.0	3.4	
	4H	4.7	5.1	5.1	5.4	5.8	4.7	5.1	5.1	5.4	5.8	
	6H	6.6	6.9	7.0	7.3	7.7	6.6	6.9	7.0	7.3	7.7	
8H	8H	8.0	8.2	8.4	8.6	9.0	8.0	8.2	8.4	8.6	9.0	
	12H	9.4	9.7	9.8	10.0	10.5	9.4	9.7	9.8	10.0	10.5	
	4H	5.4	5.7	5.9	6.1	6.5	5.4	5.7	5.9	6.1	6.5	
	6H	7.6	7.9	8.1	8.3	8.7	7.6	7.9	8.1	8.3	8.7	
	8H	9.2	9.4	9.7	9.8	10.3	9.2	9.4	9.7	9.8	10.3	
12H	12H	10.9	11.0	11.4	11.5	12.0	10.9	11.0	11.4	11.5	12.0	
	4H	5.6	5.9	6.1	6.3	6.7	5.6	5.9	6.1	6.3	6.7	
	6H	8.0	8.2	8.5	8.6	9.1	8.0	8.2	8.5	8.6	9.1	
	8H	9.7	9.9	10.2	10.3	10.8	9.7	9.9	10.2	10.3	10.8	
	Variation of the observer position for the luminaire distances S											
S = 1.0H		+0.1 / -0.2					+0.1 / -0.2					
S = 1.5H		+0.3 / -0.3					+0.3 / -0.3					
S = 2.0H		+0.6 / -0.5					+0.6 / -0.5					
Standard table		---					---					
Correction		---					---					
Summand		---					---					
Corrected Glare Indices referring to 210lm Total Luminous Flux												



DIMENSIONS



AWARDS



Name	BLACK FOSTER REC 1 SPOT 4000K N
Reference	A3191112N
Color	Matt black
RAL	9005
Category	CEILING RECESSED

PRODUCT

Light source	LED
Gross luminous flux	250 Lm
Power	2,1 W
Power values of the system	3,23 W
Colour temperature	4000 K
Colour Rendering Index	CRI>90
Chromatic stability	MacAdam Step 3
Light beam angle	19°
Lighting efficiency	90%
Efficacy	119 Lm/W
Current intensity	700 mA
Control through bluetooth	Please Consult
Driver	Included - Connected
Emergency power supply	Please Consult
Electrical insulation class	□
Voltage	220 V/240 V
Frequency	50/60 Hz
Energy efficiency	A++
LED lifespan	L80B10 (Tc=85°C) >60.000h

LIGHTING INFORMATION

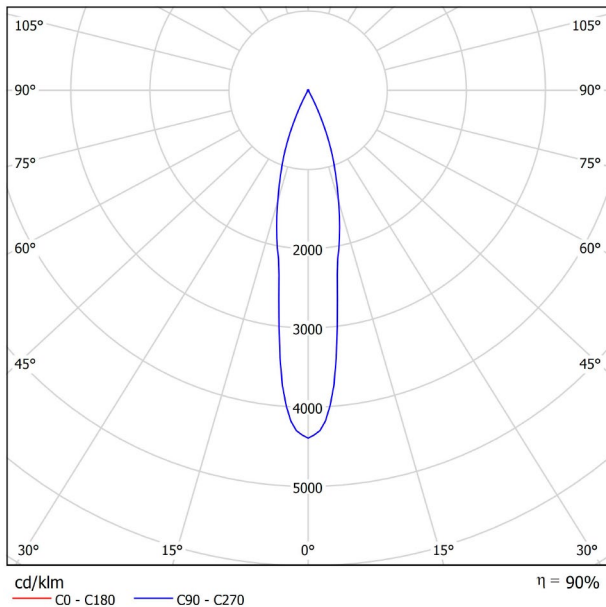
Ingress Protection	IP20
Recess measurements	50 × 50 mm.
Weight	85 g.
Packaged weight	130 g.
Packaging dimensions	78 × 98 × 50 mm
Units per package	1
Materials	Aluminium / Acrylonitrile Butadiene Styrene

OTHER DATA

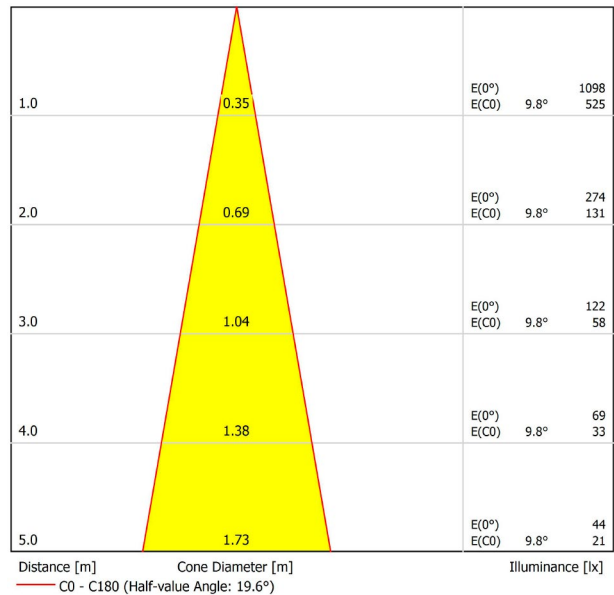


Black Foster is the product that transfers the claimed effect "The Invisible Black" to a recessed-isolated lineal luminary; also available in trimless version. If we take a closer view to the recessed model, its bezel is so thin than when lighted up, it is unperceived; offering an aesthetic of "visual trimless". Black Foster stands out for its refinement, its visual comfort and for almost completely hide the source of light from the human eye range.

POLAR DIAGRAM



CONICAL DIAGRAM

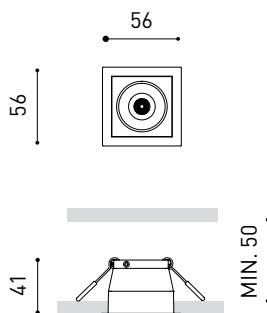


UGR

Glare Evaluation According to UGR												
ρ Ceiling		70	70	50	50	30	70	70	50	50	30	
ρ Walls		50	30	50	30	30	50	30	50	30	30	
ρ Floor		20	20	20	20	20	20	20	20	20	20	
Room Size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis					
2H	2H	-2.5	-1.9	-2.3	-1.7	-1.5	-2.5	-1.9	-2.3	-1.7	-1.5	
	3H	1.4	2.0	1.7	2.2	2.4	1.4	2.0	1.7	2.2	2.4	
	4H	3.8	4.4	4.1	4.6	4.9	3.8	4.4	4.1	4.6	4.9	
	6H	5.6	6.1	5.9	6.3	6.6	5.6	6.1	5.9	6.3	6.6	
	8H	6.8	7.3	7.1	7.6	7.8	6.8	7.3	7.1	7.6	7.8	
4H	12H	8.1	8.6	8.5	8.9	9.2	8.1	8.6	8.5	8.9	9.2	
	2H	-0.9	-0.3	-0.6	-0.1	0.2	-0.9	-0.3	-0.6	-0.1	0.2	
	3H	2.9	3.4	3.2	3.7	4.0	2.9	3.4	3.2	3.7	4.0	
	4H	5.3	5.7	5.7	6.1	6.4	5.3	5.7	5.7	6.1	6.4	
	6H	7.2	7.6	7.6	7.9	8.3	7.2	7.6	7.6	7.9	8.3	
8H	8H	8.6	8.9	9.0	9.2	9.6	8.6	8.9	9.0	9.2	9.6	
	12H	10.0	10.3	10.4	10.7	11.1	10.0	10.3	10.4	10.7	11.1	
	4H	6.0	6.3	6.5	6.7	7.1	6.0	6.3	6.5	6.7	7.1	
	6H	8.2	8.5	8.7	8.9	9.3	8.2	8.5	8.7	8.9	9.3	
	8H	9.8	10.0	10.3	10.5	10.9	9.8	10.0	10.3	10.5	10.9	
12H	12H	11.5	11.6	12.0	12.1	12.6	11.5	11.6	12.0	12.1	12.6	
	4H	6.3	6.5	6.7	6.9	7.3	6.3	6.5	6.7	6.9	7.3	
	6H	8.6	8.8	9.1	9.2	9.7	8.6	8.8	9.1	9.2	9.7	
	8H	10.3	10.5	10.8	10.9	11.4	10.3	10.5	10.8	10.9	11.4	
	Variation of the observer position for the luminaire distances S											
S = 1.0H		+0.1 / -0.2					+0.1 / -0.2					
S = 1.5H		+0.3 / -0.3					+0.3 / -0.3					
S = 2.0H		+0.6 / -0.5					+0.6 / -0.5					
Standard table		---					---					
Correction		---					---					
Summand		---					---					
Corrected Glare Indices referring to 250lm Total Luminous Flux												



DIMENSIONS



AWARDS

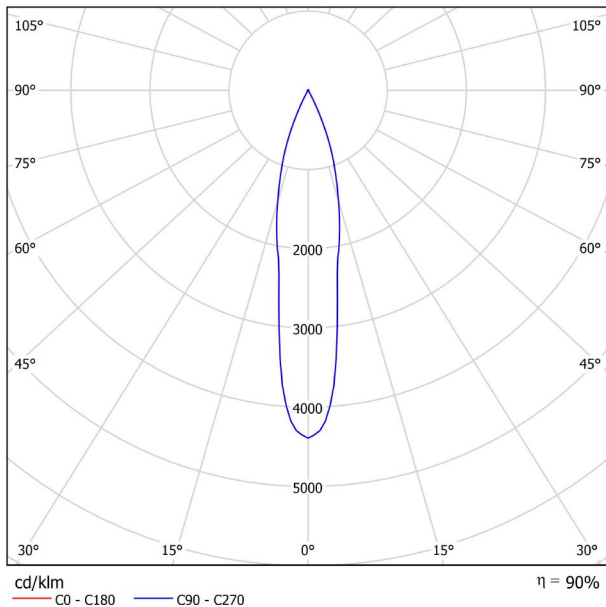


PRODUCT	
Name	BLACK FOSTER REC 1 SPOT 4000K NMG
Reference	A3191112NMG
Color	Matt black-Metallized gold
RAL	Metallic finish
Category	CEILING RECESSED
LIGHTING INFORMATION	
Light source	LED
Gross luminous flux	250 Lm
Power	2,1 W
Power values of the system	3,23 W
Colour temperature	4000 K
Colour Rendering Index	CRI>90
Chromatic stability	MacAdam Step 3
Light beam angle	19°
Lighting efficiency	90%
Efficacy	119 Lm/W
Current intensity	700 mA
Control through bluetooth	Please Consult
Driver	Included - Connected
Emergency power supply	Please Consult
Electrical insulation class	□
Voltage	220 V/240 V
Frequency	50/60 Hz
Energy efficiency	A++
LED lifespan	L80B10 (Tc=85°C) >60.000h
OTHER DATA	
Ingress Protection	IP20
Recess measurements	50 × 50 mm.
Weight	85 g.
Packaged weight	130 g.
Packaging dimensions	78 × 98 × 50 mm
Units per package	1
Materials	Aluminium / Acrylonitrile Butadiene Styrene

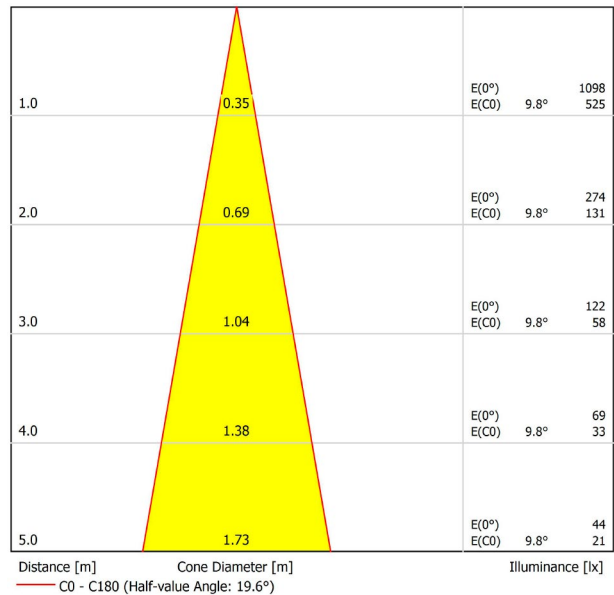


Black Foster is the product that transfers the claimed effect "The Invisible Black" to a recessed-isolated lineal luminary; also available in trimless version. If we take a closer view to the recessed model, its bezel is so thin than when lighted up, it is unperceived; offering an aesthetic of "visual trimless". Black Foster stands out for its refinement, its visual comfort and for almost completely hide the source of light from the human eye range.

POLAR DIAGRAM



CONICAL DIAGRAM

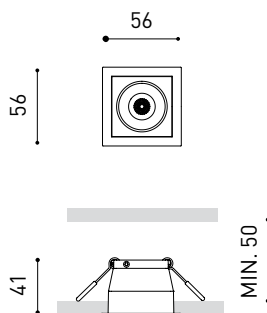


UGR

Glare Evaluation According to UGR												
ρ Ceiling		70	70	50	50	30	70	70	50	50	30	
ρ Walls		50	30	50	30	30	50	30	50	30	30	
ρ Floor		20	20	20	20	20	20	20	20	20	20	
Room Size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis					
2H	2H	-2.5	-1.9	-2.3	-1.7	-1.5	-2.5	-1.9	-2.3	-1.7	-1.5	
	3H	1.4	2.0	1.7	2.2	2.4	1.4	2.0	1.7	2.2	2.4	
	4H	3.8	4.4	4.1	4.6	4.9	3.8	4.4	4.1	4.6	4.9	
	6H	5.6	6.1	5.9	6.3	6.6	5.6	6.1	5.9	6.3	6.6	
	8H	6.8	7.3	7.1	7.6	7.8	6.8	7.3	7.1	7.6	7.8	
4H	12H	8.1	8.6	8.5	8.9	9.2	8.1	8.6	8.5	8.9	9.2	
	2H	-0.9	-0.3	-0.6	-0.1	0.2	-0.9	-0.3	-0.6	-0.1	0.2	
	3H	2.9	3.4	3.2	3.7	4.0	2.9	3.4	3.2	3.7	4.0	
	4H	5.3	5.7	5.7	6.1	6.4	5.3	5.7	5.7	6.1	6.4	
	6H	7.2	7.6	7.6	7.9	8.3	7.2	7.6	7.6	7.9	8.3	
8H	8H	8.6	8.9	9.0	9.2	9.6	8.6	8.9	9.0	9.2	9.6	
	12H	10.0	10.3	10.4	10.7	11.1	10.0	10.3	10.4	10.7	11.1	
	4H	6.0	6.3	6.5	6.7	7.1	6.0	6.3	6.5	6.7	7.1	
	6H	8.2	8.5	8.7	8.9	9.3	8.2	8.5	8.7	8.9	9.3	
	8H	9.8	10.0	10.3	10.5	10.9	9.8	10.0	10.3	10.5	10.9	
12H	12H	11.5	11.6	12.0	12.1	12.6	11.5	11.6	12.0	12.1	12.6	
	4H	6.3	6.5	6.7	6.9	7.3	6.3	6.5	6.7	6.9	7.3	
	6H	8.6	8.8	9.1	9.2	9.7	8.6	8.8	9.1	9.2	9.7	
	8H	10.3	10.5	10.8	10.9	11.4	10.3	10.5	10.8	10.9	11.4	
	Variation of the observer position for the luminaire distances S											
S = 1.0H		+0.1 / -0.2					+0.1 / -0.2					
S = 1.5H		+0.3 / -0.3					+0.3 / -0.3					
S = 2.0H		+0.6 / -0.5					+0.6 / -0.5					
Standard table		---					---					
Correction		---					---					
Summand		---					---					
Corrected Glare Indices referring to 250lm Total Luminous Flux												



DIMENSIONS



AWARDS



Name	BLACK FOSTER REC 1 SPOT 4000K WN
Reference	A3191112WN
Color	White-Black
RAL	Colour in the mass looks alike RAL 9016 & 9005
Category	CEILING RECESSED

PRODUCT

LIGHTING INFORMATION

Light source	LED
Gross luminous flux	250 Lm
Power	2,1 W
Power values of the system	3,23 W
Colour temperature	4000 K
Colour Rendering Index	CRI>90
Chromatic stability	MacAdam Step 3
Light beam angle	19°
Lighting efficiency	90%
Efficacy	119 Lm/W
Current intensity	700 mA
Control through bluetooth	Please Consult
Driver	Included - Connected
Emergency power supply	Please Consult
Electrical insulation class	□
Voltage	220 V/240 V
Frequency	50/60 Hz
Energy efficiency	A++
LED lifespan	L80B10 (Tc=85°C) >60.000h

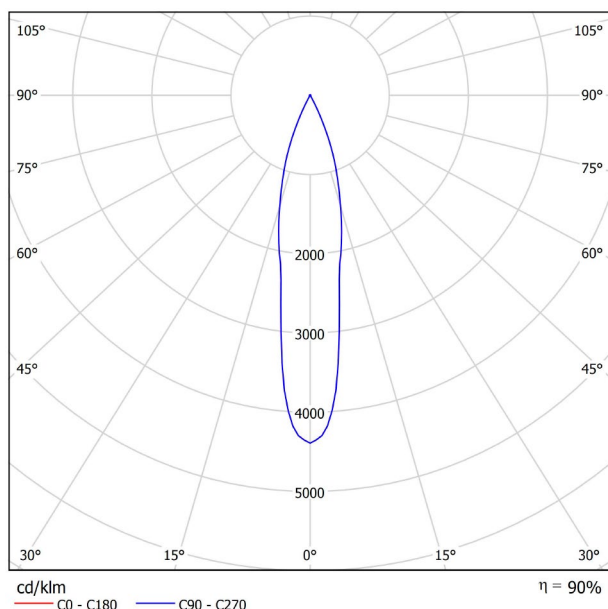
OTHER DATA

Ingress Protection	IP20
Recess measurements	50 × 50 mm.
Weight	85 g.
Packaged weight	130 g.
Packaging dimensions	78 × 98 × 50 mm
Units per package	1
Materials	Aluminium / Acrylonitrile Butadiene Styrene

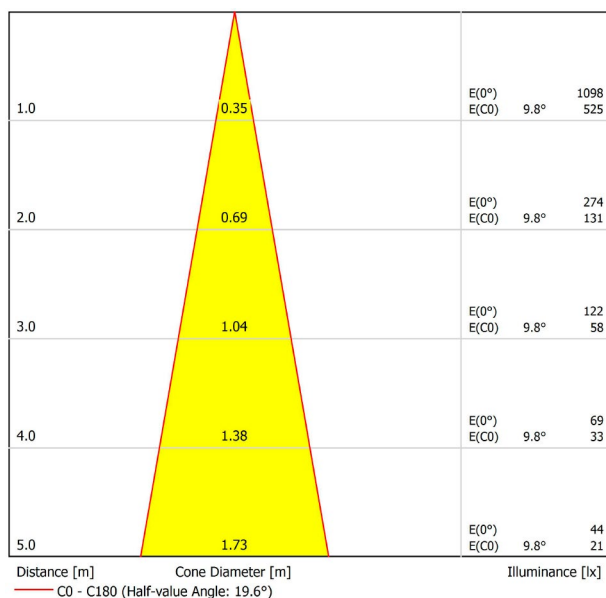


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POLAR DIAGRAM



CONICAL DIAGRAM

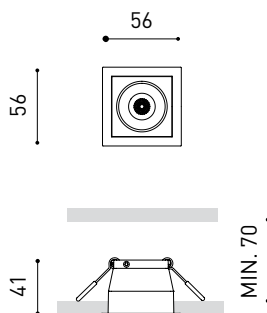


UGR

Glare Evaluation According to UGR												
p Ceiling		70	70	50	50	30	70	70	50	50	30	
p Walls		50	30	50	30	30	50	30	50	30	30	
p Floor		20	20	20	20	20	20	20	20	20	20	
Room Size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis					
2H	2H	-2.5	-1.9	-2.3	-1.7	-1.5	-2.5	-1.9	-2.3	-1.7	-1.5	
	3H	1.4	2.0	1.7	2.2	2.4	1.4	2.0	1.7	2.2	2.4	
	4H	3.8	4.4	4.1	4.6	4.9	3.8	4.4	4.1	4.6	4.9	
	6H	5.6	6.1	5.9	6.3	6.6	5.6	6.1	5.9	6.3	6.6	
	8H	6.8	7.3	7.1	7.6	7.8	6.8	7.3	7.1	7.6	7.8	
4H	12H	8.1	8.6	8.5	8.9	9.2	8.1	8.6	8.5	8.9	9.2	
	2H	-0.9	-0.3	-0.6	-0.1	0.2	-0.9	-0.3	-0.6	-0.1	0.2	
	3H	2.9	3.4	3.2	3.7	4.0	2.9	3.4	3.2	3.7	4.0	
	4H	5.3	5.7	5.7	6.1	6.4	5.3	5.7	5.7	6.1	6.4	
	6H	7.2	7.6	7.6	7.9	8.3	7.2	7.6	7.6	7.9	8.3	
8H	8H	8.6	8.9	9.0	9.2	9.6	8.6	8.9	9.0	9.2	9.6	
	12H	10.0	10.3	10.4	10.7	11.1	10.0	10.3	10.4	10.7	11.1	
	4H	6.0	6.3	6.5	6.7	7.1	6.0	6.3	6.5	6.7	7.1	
	6H	8.2	8.5	8.7	8.9	9.3	8.2	8.5	8.7	8.9	9.3	
	8H	9.8	10.0	10.3	10.5	10.9	9.8	10.0	10.3	10.5	10.9	
12H	12H	11.5	11.6	12.0	12.1	12.6	11.5	11.6	12.0	12.1	12.6	
	4H	6.3	6.5	6.7	6.9	7.3	6.3	6.5	6.7	6.9	7.3	
	6H	8.6	8.8	9.1	9.2	9.7	8.6	8.8	9.1	9.2	9.7	
	8H	10.3	10.5	10.8	10.9	11.4	10.3	10.5	10.8	10.9	11.4	
	Variation of the observer position for the luminaire distances S											
S = 1.0H		+0.1 / -0.2					+0.1 / -0.2					
S = 1.5H		+0.3 / -0.3					+0.3 / -0.3					
S = 2.0H		+0.6 / -0.5					+0.6 / -0.5					
Standard table		---					---					
Correction		---					---					
Summand		---					---					
Corrected Glare Indices referring to 250lm Total Luminous Flux												



DIMENSIONS



AWARDS



Name	BLACK FOSTER REC 1 SPOT DIM DALI 2700K N
Reference	A3191140N
Color	Matt black
RAL	9005
Category	CEILING RECESSED

PRODUCT

BLACK FOSTER REC 1 SPOT DIM DALI 2700K N

A3191140N

Matt black

9005

CEILING RECESSED

LIGHTING INFORMATION

Light source	LED
Gross luminous flux	190 Lm
Power	2,1 W
Power values of the system	2,56 W
Colour temperature	2700 K
Colour Rendering Index	CRI>90
Chromatic stability	MacAdam Step 3
Light beam angle	19°
Lighting efficiency	90%
Efficacy	90 Lm/W
Current intensity	700 mA
Dimming	DALI
Control through bluetooth	Please Consult
Driver	Included - Connected
Emergency power supply	Please Consult
Electrical insulation class	□
Voltage	220 V/240 V
Frequency	50/60 Hz
Energy efficiency	A++
LED lifespan	L80B10 (Tc=85°C) >60.000h

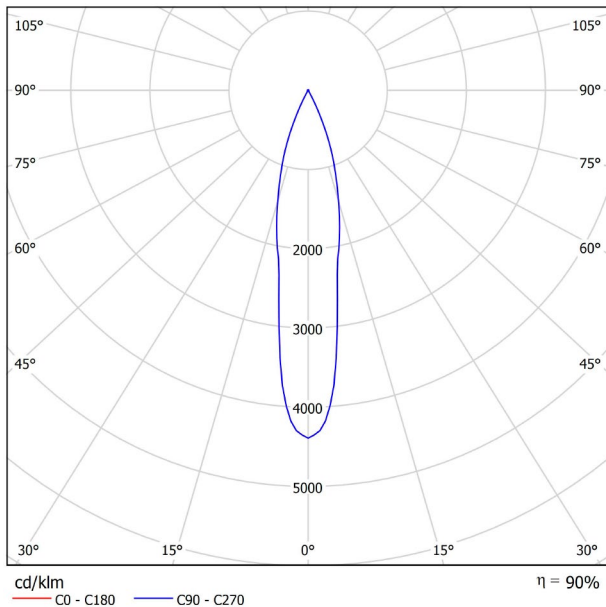
OTHER DATA

Ingress Protection	IP20
Recess measurements	50 × 50 mm.
Weight	160 g.
Packaged weight	255 g.
Packaging dimensions	168 × 98 × 74 mm
Units per package	1
Materials	Aluminium / Acrylonitrile Butadiene Styrene

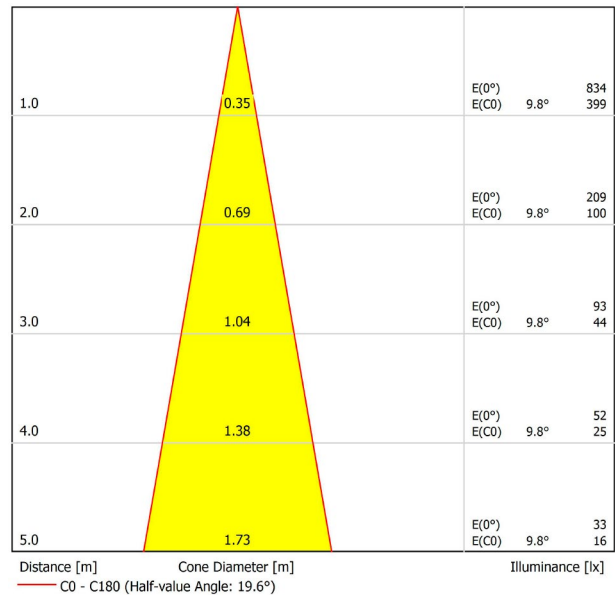


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POLAR DIAGRAM



CONICAL DIAGRAM

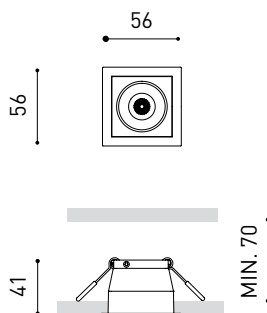


UGR

Glare Evaluation According to UGR												
ρ Ceiling		70	70	50	50	30	70	70	50	50	30	
ρ Walls		50	30	50	30	30	50	30	50	30	30	
ρ Floor		20	20	20	20	20	20	20	20	20	20	
Room Size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis					
2H	2H	-3.5	-2.8	-3.2	-2.6	-2.4	-3.5	-2.8	-3.2	-2.6	-2.4	
	3H	0.4	1.0	0.7	1.3	1.5	0.4	1.0	0.7	1.3	1.5	
	4H	2.9	3.4	3.2	3.7	3.9	2.9	3.4	3.2	3.7	3.9	
	6H	4.6	5.1	4.9	5.4	5.7	4.6	5.1	4.9	5.4	5.7	
	8H	5.8	6.3	6.2	6.6	6.9	5.8	6.3	6.2	6.6	6.9	
	12H	7.2	7.6	7.5	7.9	8.2	7.2	7.6	7.5	7.9	8.2	
4H	2H	-1.8	-1.3	-1.5	-1.0	-0.8	-1.8	-1.3	-1.5	-1.0	-0.8	
	3H	1.9	2.4	2.3	2.7	3.0	1.9	2.4	2.3	2.7	3.0	
	4H	4.4	4.8	4.7	5.1	5.4	4.4	4.8	4.7	5.1	5.4	
	6H	6.3	6.6	6.7	7.0	7.3	6.3	6.6	6.7	7.0	7.3	
	8H	7.6	7.9	8.0	8.3	8.7	7.6	7.9	8.0	8.3	8.7	
	12H	9.1	9.3	9.5	9.7	10.1	9.1	9.3	9.5	9.7	10.1	
8H	4H	5.1	5.4	5.5	5.8	6.2	5.1	5.4	5.5	5.8	6.2	
	6H	7.3	7.5	7.7	7.9	8.4	7.3	7.5	7.7	7.9	8.4	
	8H	8.9	9.1	9.3	9.5	10.0	8.9	9.1	9.3	9.5	10.0	
	12H	10.5	10.7	11.0	11.1	11.6	10.5	10.7	11.0	11.1	11.6	
12H	4H	5.3	5.5	5.7	5.9	6.4	5.3	5.5	5.7	5.9	6.4	
	6H	7.7	7.8	8.1	8.3	8.7	7.7	7.8	8.1	8.3	8.7	
	8H	9.4	9.5	9.9	10.0	10.5	9.4	9.5	9.9	10.0	10.5	
Variation of the observer position for the luminaire distances S												
S = 1.0H		+0.1 / -0.2					+0.1 / -0.2					
S = 1.5H		+0.3 / -0.3					+0.3 / -0.3					
S = 2.0H		+0.6 / -0.5					+0.6 / -0.5					
Standard table		---					---					
Correction		---					---					
Summand		---					---					
Corrected Glare Indices referring to 190lm Total Luminous Flux												



DIMENSIONS



AWARDS



Name	BLACK FOSTER REC 1 SPOT DIM DALI 2700K NMG
Reference	A3191140NMG
Color	Matt black-Metallized gold
RAL	Metalllic finish
Category	CEILING RECESSED

PRODUCT

LIGHTING INFORMATION

Light source	LED
Gross luminous flux	190 Lm
Power	2,1 W
Power values of the system	3,23 W
Colour temperature	2700 K
Colour Rendering Index	CRI>90
Chromatic stability	MacAdam Step 3
Light beam angle	19°
Lighting efficiency	90%
Efficacy	90 Lm/W
Current intensity	700 mA
Dimming	DALI
Control through bluetooth	Please Consult
Driver	Included - Connected
Emergency power supply	Please Consult
Electrical insulation class	□
Voltage	220 V/240 V
Frequency	50/60 Hz
Energy efficiency	A++
LED lifespan	L80B10 (Tc=85°C) >60.000h

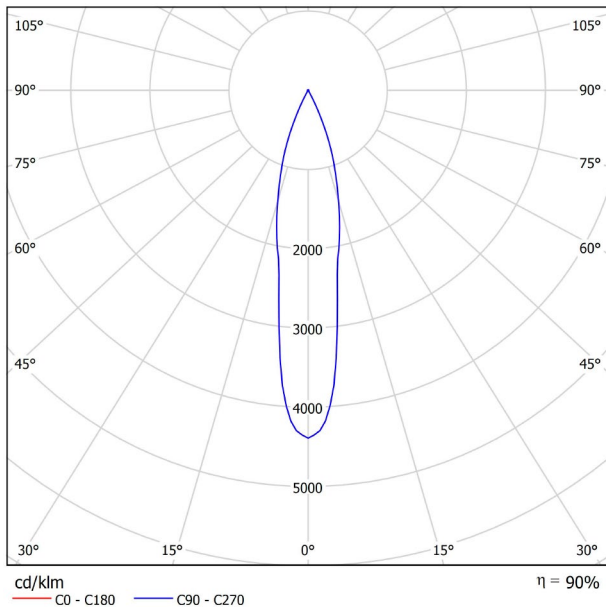
OTHER DATA

Ingress Protection	IP20
Recess measurements	50 × 50 mm.
Weight	160 g.
Packaged weight	255 g.
Packaging dimensions	168 × 98 × 74 mm
Units per package	1
Materials	Aluminium / Acrylonitrile Butadiene Styrene

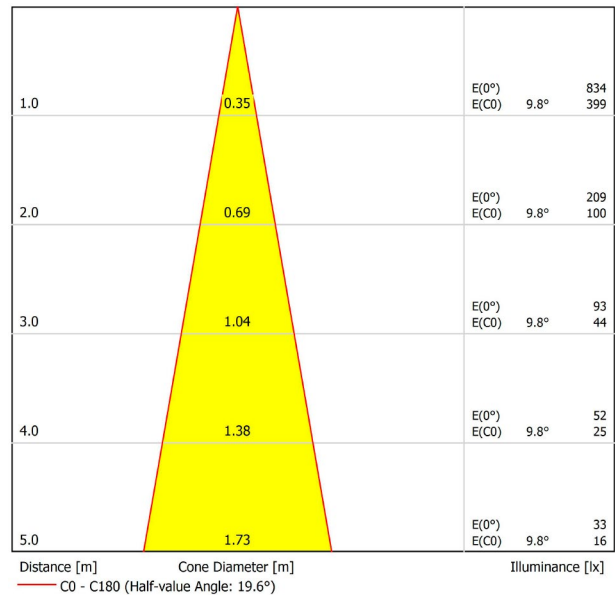


Black Foster is the product that transfers the claimed effect "The Invisible Black" to a recessed-isolated lineal luminary; also available in trimless version. If we take a closer view to the recessed model, its bezel is so thin than when lighted up, it is unperceived; offering an aesthetic of "visual trimless". Black Foster stands out for its refinement, its visual comfort and for almost completely hide the source of light from the human eye range.

POLAR DIAGRAM



CONICAL DIAGRAM



UGR

Glare Evaluation According to UGR												
ρ Ceiling		70	70	50	50	30	70	70	50	50	30	
ρ Walls		50	30	50	30	30	50	30	50	30	30	
ρ Floor		20	20	20	20	20	20	20	20	20	20	
Room Size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis					
2H	2H	-3.5	-2.8	-3.2	-2.6	-2.4	-3.5	-2.8	-3.2	-2.6	-2.4	
	3H	0.4	1.0	0.7	1.3	1.5	0.4	1.0	0.7	1.3	1.5	
	4H	2.9	3.4	3.2	3.7	3.9	2.9	3.4	3.2	3.7	3.9	
	6H	4.6	5.1	4.9	5.4	5.7	4.6	5.1	4.9	5.4	5.7	
	8H	5.8	6.3	6.2	6.6	6.9	5.8	6.3	6.2	6.6	6.9	
4H	12H	7.2	7.6	7.5	7.9	8.2	7.2	7.6	7.5	7.9	8.2	
	2H	-1.8	-1.3	-1.5	-1.0	-0.8	-1.8	-1.3	-1.5	-1.0	-0.8	
	3H	1.9	2.4	2.3	2.7	3.0	1.9	2.4	2.3	2.7	3.0	
	4H	4.4	4.8	4.7	5.1	5.4	4.4	4.8	4.7	5.1	5.4	
	6H	6.3	6.6	6.7	7.0	7.3	6.3	6.6	6.7	7.0	7.3	
8H	8H	7.6	7.9	8.0	8.3	8.7	7.6	7.9	8.0	8.3	8.7	
	12H	9.1	9.3	9.5	9.7	10.1	9.1	9.3	9.5	9.7	10.1	
	4H	5.1	5.4	5.5	5.8	6.2	5.1	5.4	5.5	5.8	6.2	
	6H	7.3	7.5	7.7	7.9	8.4	7.3	7.5	7.7	7.9	8.4	
	8H	8.9	9.1	9.3	9.5	10.0	8.9	9.1	9.3	9.5	10.0	
12H	12H	10.5	10.7	11.0	11.1	11.6	10.5	10.7	11.0	11.1	11.6	
	4H	5.3	5.5	5.7	5.9	6.4	5.3	5.5	5.7	5.9	6.4	
	6H	7.7	7.8	8.1	8.3	8.7	7.7	7.8	8.1	8.3	8.7	
	8H	9.4	9.5	9.9	10.0	10.5	9.4	9.5	9.9	10.0	10.5	
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S = 2.0H		+0.6 / -0.5					+0.6 / -0.5					
Standard table		---					---					
Correction		---					---					
Summand		---					---					
Corrected Glare Indices referring to 190lm Total Luminous Flux												