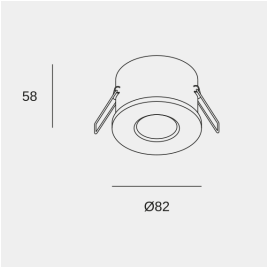
Installation Instructions
Photometry

Minor

TC-1200-BLA

Recessed ceiling lights Minor GU10/G5.3 8W White IP54





70

0-16

TECHNICAL FEATURES

IP54 0,5m

Luminaire total power : 8W

Structure material : Aluminium

Structure finish : White

Diffuser material : Glass

Diffuser finish : Transparent

Max. size of light bulb : 55/50 mm

Recommended light bulb : GU10/G5.3

Equipment necessary but not included :

Voltage / frequency : 12V ~ 50/60Hz

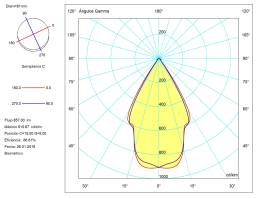
Warranty : 5 Years

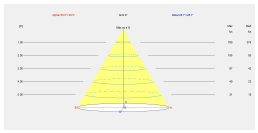
Easily recyclable luminaire

LUMINOTECHNIC FEATURES

Lampholder	Quantity	Light source power (W)	Correlated Colour Temperature (CCT)
GU10/G5.3	1	Max. power 8W	-

UGR	
S=0.250	
Ceiling / cavity	0.7
Walls	0.5
Working Plane	0.2
Room dimensions	X=4H, Y=8H
UGR crosswise	19.5
UGR lengthwise	18.8





LOGISTICS

Net weight (kg): 0.21

Packaged weight (kg): 0.24

Packaging: 90mm x 90mm x 70mm

50 Un

LIGHT APPLICATION

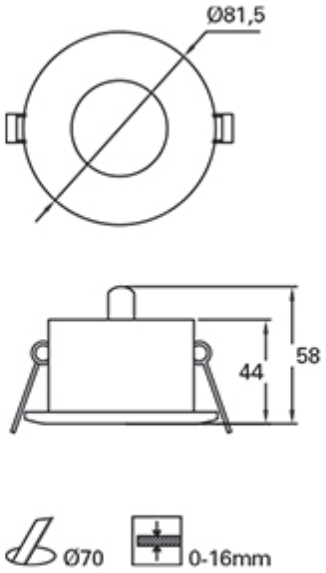


Image may not match reference. LEDS C4 reserves the right to amend any of the product's components. The data related to flux, power and colour temperature are subject to a tolerance of ±10%.

Luminaire
Code TC-1200-BLA
Name Downlight for light 1x50W GU5.3
Measurem.
Code TC-1200-BL
Name Downlight for light 1x50W GU5.3

Luminaire Flux	570.80 lm	Luminaire Power	50.00 W	Efficacy	11.42 lm/W	Efficiency	66.61%
Lamps Flux	857.00 lm	Maximum value	784.73 cd	Position	C=15.00 G=5.00	CG	Double Symmetrical

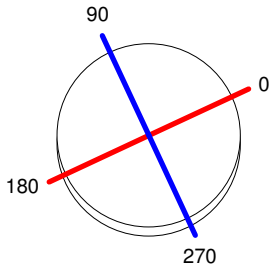
Round Luminaire	Diam. 81 mm	Height	58 mm
Round Luminous Area	Diam. 40 mm	Height	1 mm
Horizontal Luminous Area	0.001257 m2	Emitting area on Plane 180°	0.000040 m2
Emitting area on Plane 0°	0.000040 m2	Emitting area on Plane 270°	0.000040 m2
Emitting area on Plane 90°	0.000040 m2	Glare area at 76°	0.000343 m2
Coordinate system	CG	Symmetry Type	Double Symmetrical
Date	26-01-2016	Maximum Gamma Angle	90
Measurement Distance	0.00	Measurement Flux	857.00 lm
Operator	Asselum	Source Voltage [V]	
Temperature	25.00 °C	Source current [A]	
Humidity	60.00 %	Photocell	
Notes			

Luminaire Lamps

Line	Code	Name	Flux [lm]	Pow. [W]	Q.ty
	46870VWFL	46870VWFL - 50.00 W	857.00	50.00	1

C.I.E.	95 98 100 100 67	D DIN 5040	A60
F UTE	0.67 A	B NBN	BZ 1

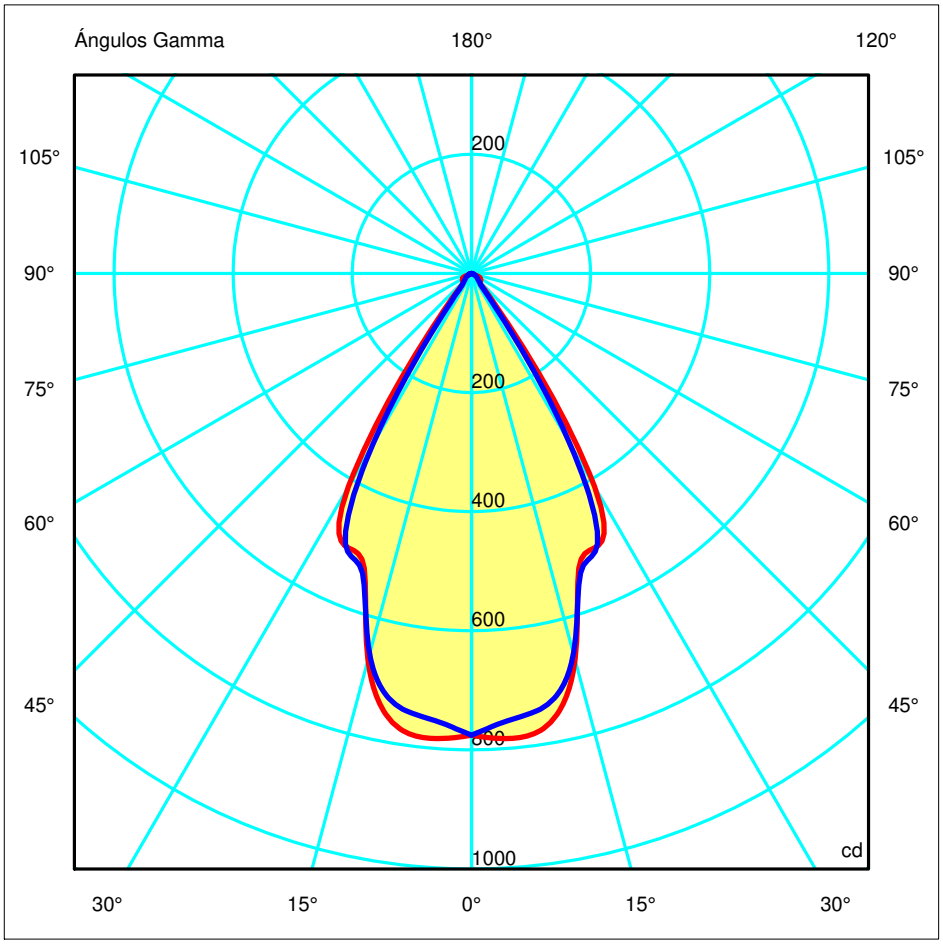
Diam=81mm



Semiplanos C

180.0 — 0.0

270.0 — 90.0

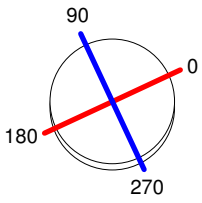


ULOR	0.00 %
DLOR	66.61 %
RN	0.00 %

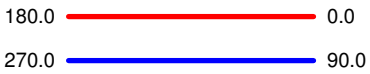
Luminaire
Code TC-1200-BLA
Name Downlight for light 1x50W GU5.3
Measurem.
Code TC-1200-BL
Name Downlight for light 1x50W GU5.3

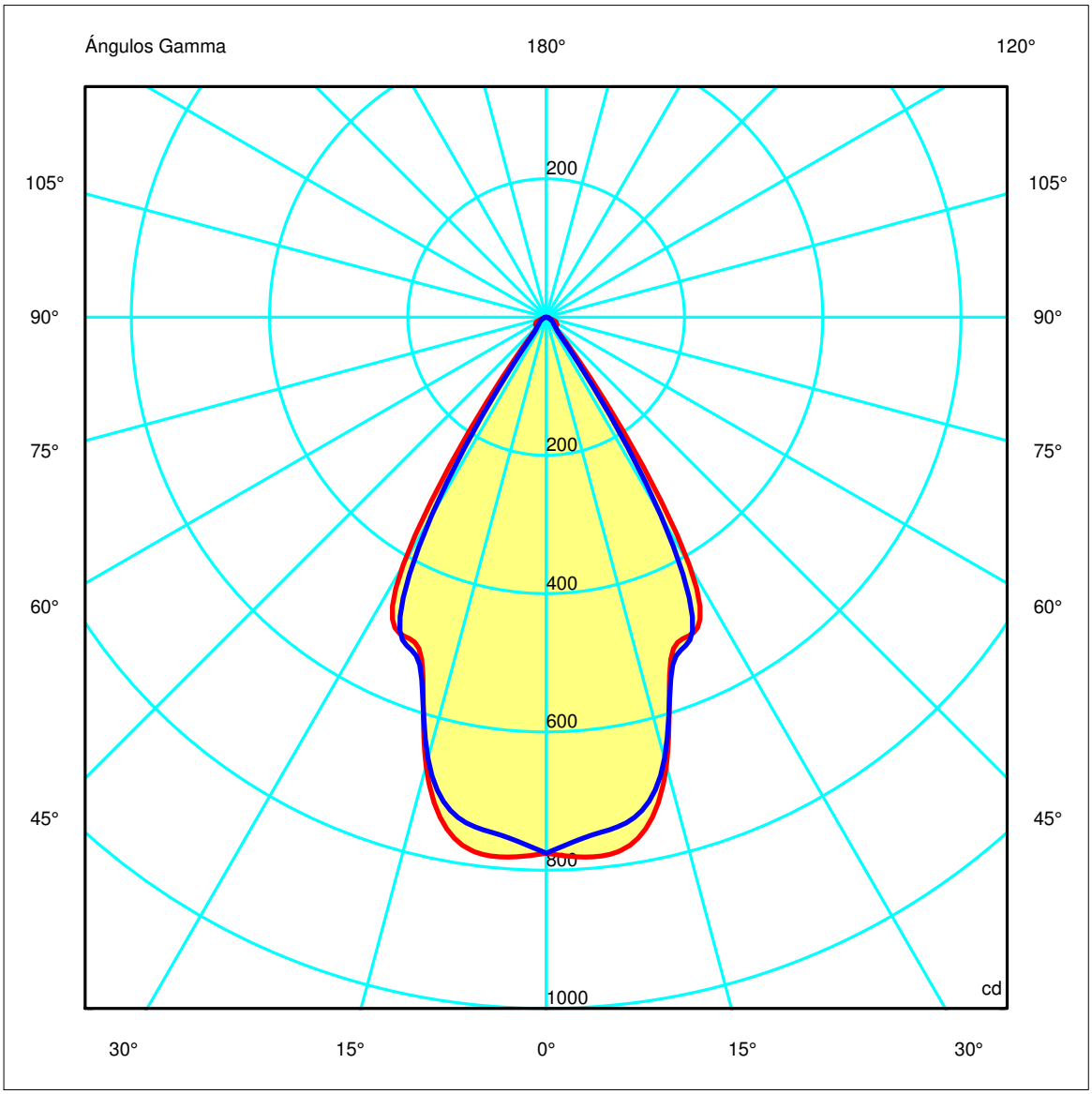
Luminaire Flux	570.80 lm	Luminaire Power	50.00 W	Efficacy	11.42 lm/W	Efficiency	66.61%
Lamps Flux	857.00 lm	Maximum value	784.73 cd	Position	C=15.00 G=5.00	CG	Double Symmetrical

Diam=81mm



Semiplanos C





Luminaire
Code TC-1200-BLA
Name Downlight for light 1x50W GU5.3
Measurem.
Code TC-1200-BL
Name Downlight for light 1x50W GU5.3

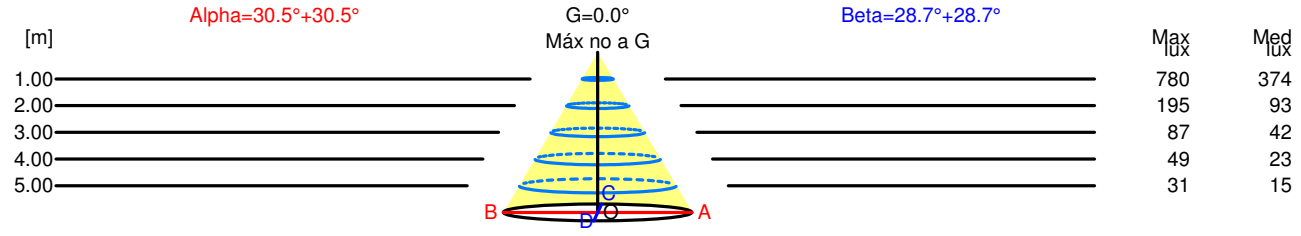
Luminaire Flux	570.80 lm	Luminaire Power	50.00 W	Efficacy	11.42 lm/W	Efficiency	66.61%
Lamps Flux	857.00 lm	Maximum value	784.73 cd	Position	C=15.00 G=5.00	CG	Double Symmetrical

Width at 50.00 % of Max Intensity

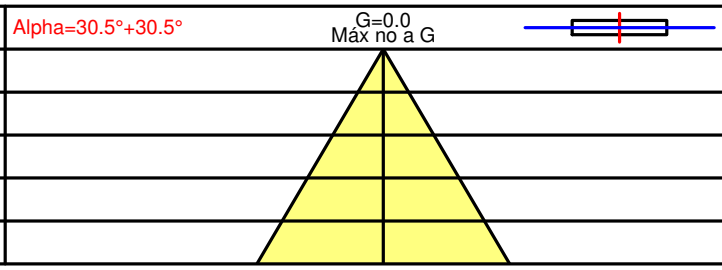
H[m]	1.00	2.00	3.00	4.00	5.00	H[m]	1.00	2.00	3.00	4.00	5.00
OA	0.59	1.18	1.77	2.35	2.94	OC	0.55	1.10	1.64	2.19	2.74
OB	0.59	1.18	1.77	2.35	2.94	OD	0.55	1.10	1.64	2.19	2.74

Luminous Intensities [cd]

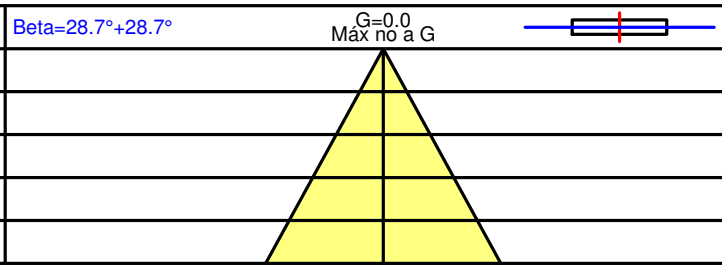
	0	5	15	25	35	45	55	65	75	85
OA	775.23	783.48	671.32	503.93	149.72	18.99	18.99	14.92	2.93	0.66
OB	775.23	783.48	671.32	503.93	149.72	18.99	18.99	14.92	2.93	0.66
OC	775.23	752.08	661.05	500.63	82.99	16.60	10.83	6.16	2.45	0.35
OD	775.23	752.08	661.05	500.63	82.99	16.60	10.83	6.16	2.45	0.35



H[m]	D[m]	Max lux	Med lux
1.00	1.18	780	374
2.00	2.35	195	93
3.00	3.53	87	42
4.00	4.71	49	23
5.00	5.88	31	15



H[m]	D[m]	Max lux	Med lux
1.00	1.10	780	374
2.00	2.19	195	93
3.00	3.29	87	42
4.00	4.38	49	23
5.00	5.48	31	15

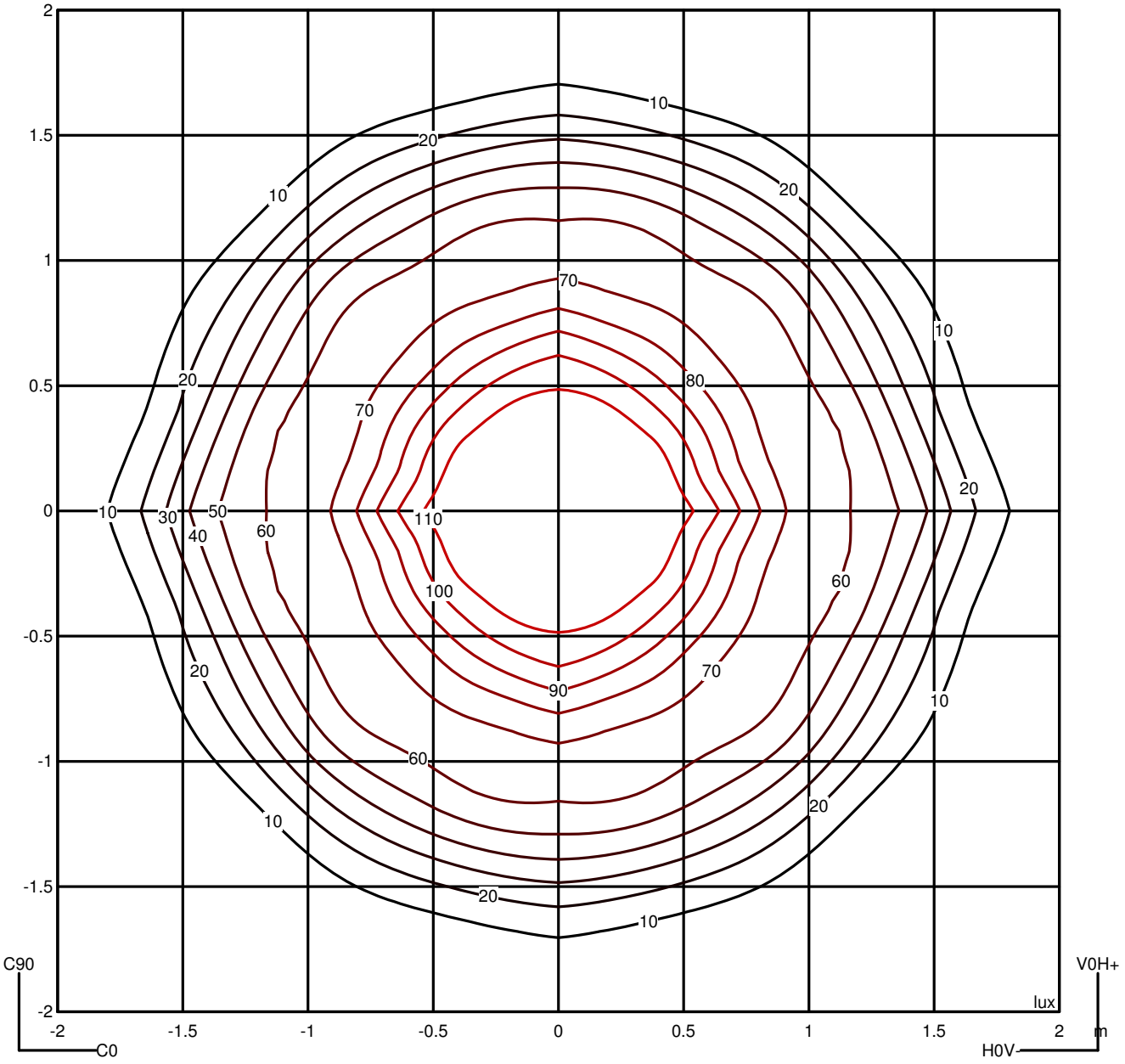


Luminaire
Code TC-1200-BLA
Name Downlight for light 1x50W GU5.3
Measurem.
Code TC-1200-BL
Name Downlight for light 1x50W GU5.3

Luminaire Flux	570.80 lm	Luminaire Power	50.00 W	Efficacy	11.42 lm/W	Efficiency	66.61%
Lamps Flux	857.00 lm	Maximum value	784.73 cd	Position	C=15.00 G=5.00	CG	Double Symmetrical

Isolux (Floor)

Luminaire position X=0.00m Y=0.00m Z=2.50m



Luminaire
Code TC-1200-BLA
Name Downlight for light 1x50W GU5.3
Measurem.
Code TC-1200-BL
Name Downlight for light 1x50W GU5.3

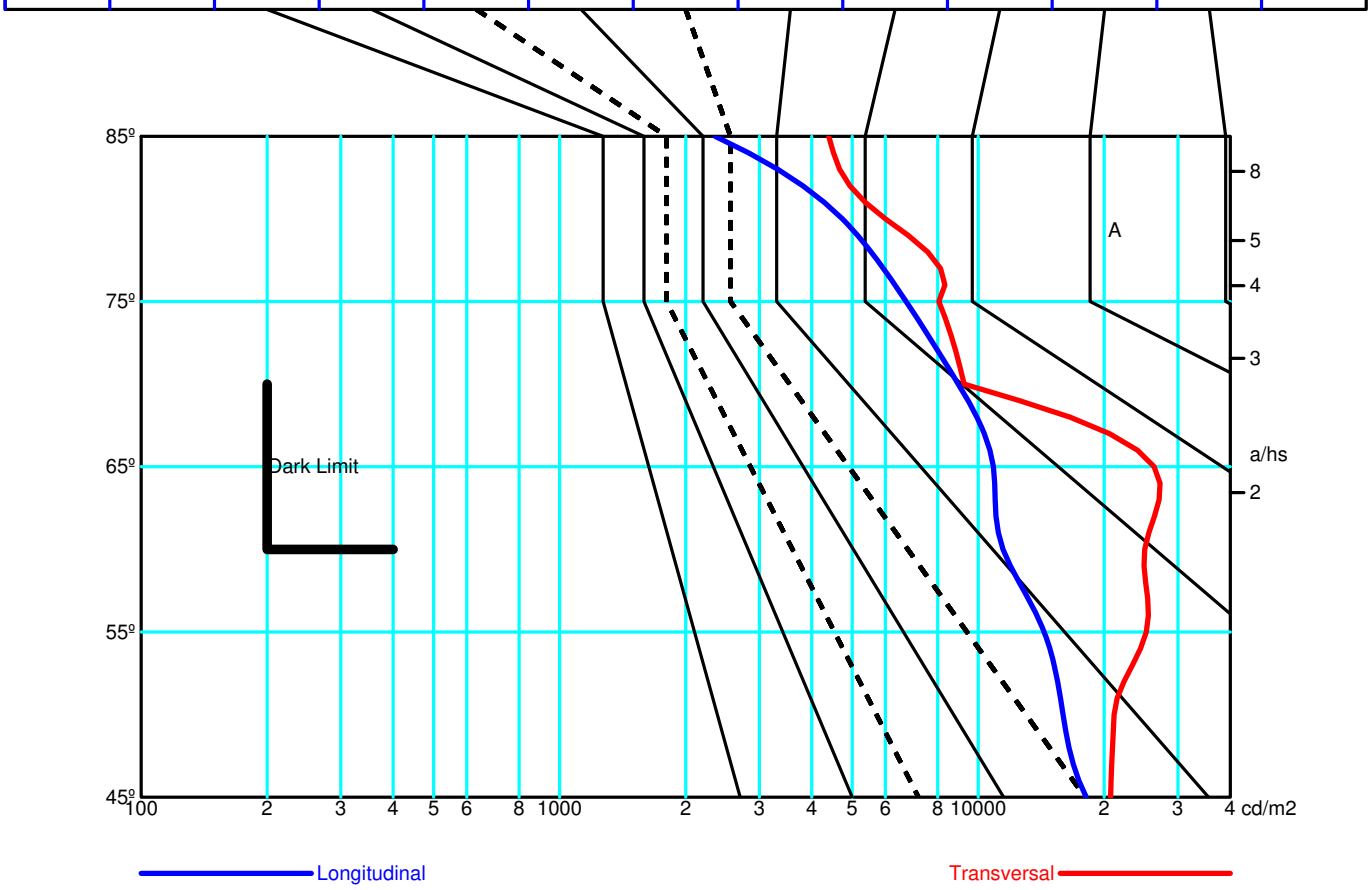
Luminaire Flux	570.80 lm	Luminaire Power	50.00 W	Efficacy	11.42 lm/W	Efficiency	66.61%
Lamps Flux	857.00 lm	Maximum value	784.73 cd	Position	C=15.00 G=5.00	CG	Double Symmetrical

Average Luminance [cd/m²]

	45°	50°	55°	60°	65°	70°	75°	80°	85°	
0.0°	20707	21118	25202	24986	26305	9257	8050	6003	4391	---
90.0°	18109	15947	14372	11457	10866	8964	6727	4737	2353	---

Flujo montado o vista longitudinal

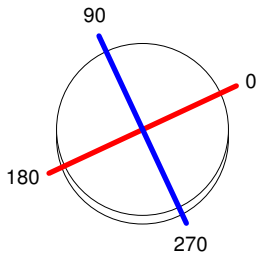
		Iluminancia (lx)										
A	A	2000	1000	750	500		<300					1.15
B	1		2000	1500	1000	750	500	<300				1.5
C					2000		1000	500	<300			1.85
D	2						2000	1000	500	<300		2.2
E	3							2000	1000	500	<300	2.55



Luminaire
Code TC-1200-BLA
Name Downlight for light 1x50W GU5.3
Measurem.
Code TC-1200-BL
Name Downlight for light 1x50W GU5.3

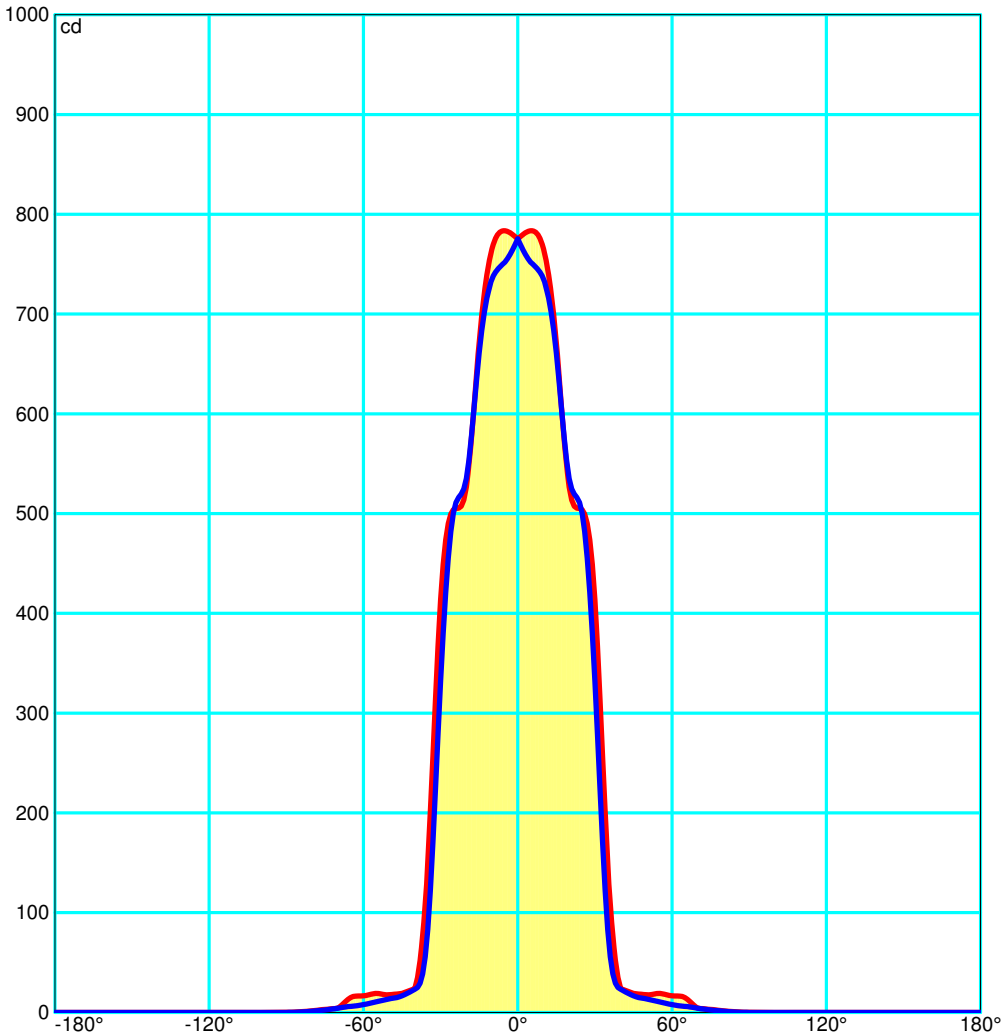
Luminaire Flux	570.80 lm	Luminaire Power	50.00 W	Efficacy	11.42 lm/W	Efficiency	66.61%
Lamps Flux	857.00 lm	Maximum value	784.73 cd	Position	C=15.00 G=5.00	CG	Double Symmetrical

Diam=81mm



Semiplanos C





Luminaire
Code TC-1200-BLA
Name Downlight for light 1x50W GU5.3
Measurem.
Code TC-1200-BL
Name Downlight for light 1x50W GU5.3

Luminaire Flux	570.80 lm	Luminaire Power	50.00 W	Efficacy	11.42 lm/W	Efficiency	66.61%
Lamps Flux	857.00 lm	Maximum value	784.73 cd	Position	C=15.00 G=5.00	CG	Double Symmetrical

UGR
S = 0.250

Reflectancies										
Ceiling/Cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
WorkingPlane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
RoomDimensions	ViewedCrosswise					ViewedEndwise				
x=2H y=2H	18.9	19.6	19.1	19.8	19.2	18.1	18.8	18.3	19.0	19.2
x=2H y=3H	19.2	19.8	19.5	20.1	19.4	18.4	19.0	18.6	19.2	19.4
x=2H y=4H	19.2	19.8	19.5	20.1	19.5	18.4	19.0	18.7	19.3	19.5
x=2H y=6H	19.3	19.8	19.6	20.1	19.5	18.5	19.0	18.8	19.3	19.5
x=2H y=8H	19.2	19.8	19.6	20.1	19.5	18.4	18.9	18.8	19.2	19.5
x=2H y=12H	19.3	19.7	19.6	20.0	19.5	18.4	18.9	18.8	19.2	19.5
x=4H y=2H	18.9	19.4	19.1	19.7	19.2	18.1	18.7	18.4	18.9	19.2
x=4H y=3H	19.3	19.7	19.6	20.1	19.6	18.5	19.0	18.9	19.3	19.6
x=4H y=4H	19.3	19.8	19.7	20.1	19.7	18.6	19.0	19.0	19.4	19.7
x=4H y=6H	19.4	19.8	19.8	20.1	19.8	18.7	19.0	19.1	19.4	19.8
x=4H y=8H	19.4	19.7	19.8	20.1	19.8	18.7	19.0	19.1	19.4	19.8
x=4H y=12H	19.4	19.7	19.8	20.0	19.7	18.7	18.9	19.1	19.3	19.7
x=8H y=4H	19.3	19.6	19.7	20.0	19.7	18.6	18.9	19.0	19.3	19.7
x=8H y=6H	19.4	19.6	19.9	20.1	19.8	18.7	19.0	19.2	19.4	19.8
x=8H y=8H	19.4	19.6	19.9	20.1	19.8	18.7	18.9	19.2	19.4	19.8
x=8H y=12H	19.4	19.5	19.9	20.0	19.8	18.7	18.9	19.2	19.3	19.8
x=12H y=4H	19.3	19.6	19.7	20.0	19.7	18.6	18.9	19.0	19.3	19.7
x=12H y=6H	19.4	19.6	19.8	20.0	19.8	18.7	18.9	19.1	19.3	19.8
x=12H y=8H	19.4	19.5	19.9	20.0	19.8	18.7	18.9	19.2	19.3	19.8

Luminaire
Code TC-1200-BLA
Name Downlight for light 1x50W GU5.3
Measurem.
Code TC-1200-BL
Name Downlight for light 1x50W GU5.3

Luminaire Flux	570.80 lm	Luminaire Power	50.00 W	Efficacy	11.42 lm/W	Efficiency	66.61%
Lamps Flux	857.00 lm	Maximum value	784.73 cd	Position	C=15.00 G=5.00	CG	Double Symmetrical

Flujo Total=857.00 Flujo Luminaria=570.80

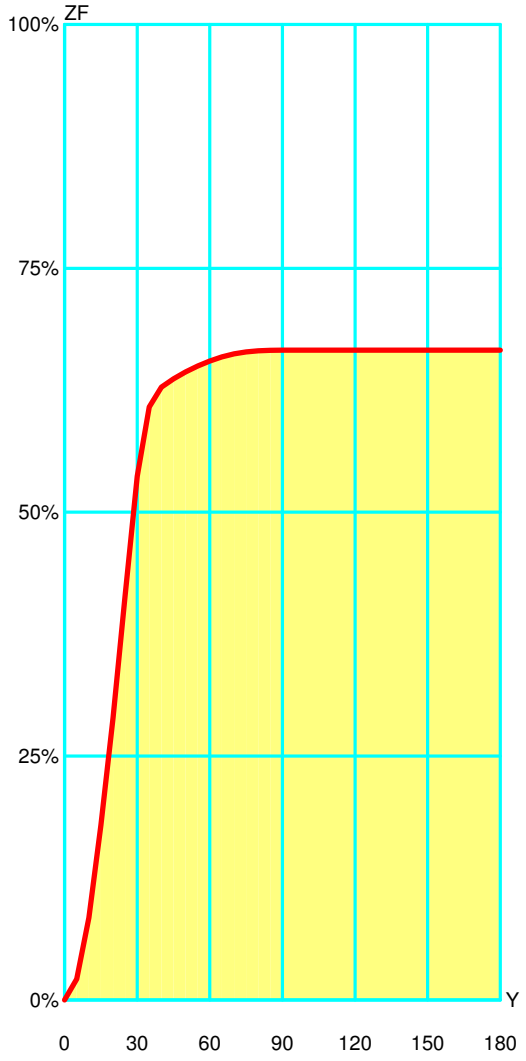
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.70	0.75	0.80	0.83	0.86	0.91	0.94	0.96	0.98	0.99	1.01	1.02
RC	-	-	-	-	-	-	-	-	-	-	-	-

Flujo Zonal por 1000 Lúmenes

Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	84	289	537	628	644	655	662	665	666	666	666	666	666	666	666	666	666	666

Códigos de Flujo C.I.E.
95 98 100 100 67

C.I.E.	-/-/-/-/-/-/-/-/-/-/-	LOR	66.60501 %
D DIN 5040	A60	ULOR	0.00000 %
F UTE	0.67 A	DLOR	66.60501 %
B NBN	BZ 1	UFF	0.00000 %
RN	0.00000 %	DFF	100.00000 %
BLF	1.0	FFR	0.00000 %



Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	21.51	21.51	3.23 %	3.23 %
10°	62.88	84.38	9.44 %	12.67 %
15°	94.72	179.11	14.22 %	26.89 %
20°	110.33	289.44	16.56 %	43.46 %
25°	124.69	414.12	18.72 %	62.18 %
30°	122.76	536.88	18.43 %	80.61 %
35°	71.00	607.88	10.66 %	91.27 %
40°	20.38	628.25	3.06 %	94.33 %
45°	8.39	636.65	1.26 %	95.59 %
50°	7.08	643.73	1.06 %	96.65 %
55°	6.19	649.92	0.93 %	97.58 %
60°	5.06	654.98	0.76 %	98.34 %
65°	4.20	659.18	0.63 %	98.97 %
70°	3.18	662.36	0.48 %	99.45 %
75°	1.97	664.33	0.30 %	99.74 %
80°	1.14	665.47	0.17 %	99.91 %
85°	0.48	665.95	0.07 %	99.99 %
90°	0.10	666.05	0.01 %	100.00 %
95°	0.00	666.05	0.00 %	100.00 %
100°	0.00	666.05	0.00 %	100.00 %
105°	0.00	666.05	0.00 %	100.00 %
110°	0.00	666.05	0.00 %	100.00 %
115°	0.00	666.05	0.00 %	100.00 %
120°	0.00	666.05	0.00 %	100.00 %
125°	0.00	666.05	0.00 %	100.00 %
130°	0.00	666.05	0.00 %	100.00 %
135°	0.00	666.05	0.00 %	100.00 %
140°	0.00	666.05	0.00 %	100.00 %
145°	0.00	666.05	0.00 %	100.00 %
150°	0.00	666.05	0.00 %	100.00 %
155°	0.00	666.05	0.00 %	100.00 %
160°	0.00	666.05	0.00 %	100.00 %
165°	0.00	666.05	0.00 %	100.00 %
170°	0.00	666.05	0.00 %	100.00 %
175°	0.00	666.05	0.00 %	100.00 %
180°	0.00	666.05	0.00 %	100.00 %

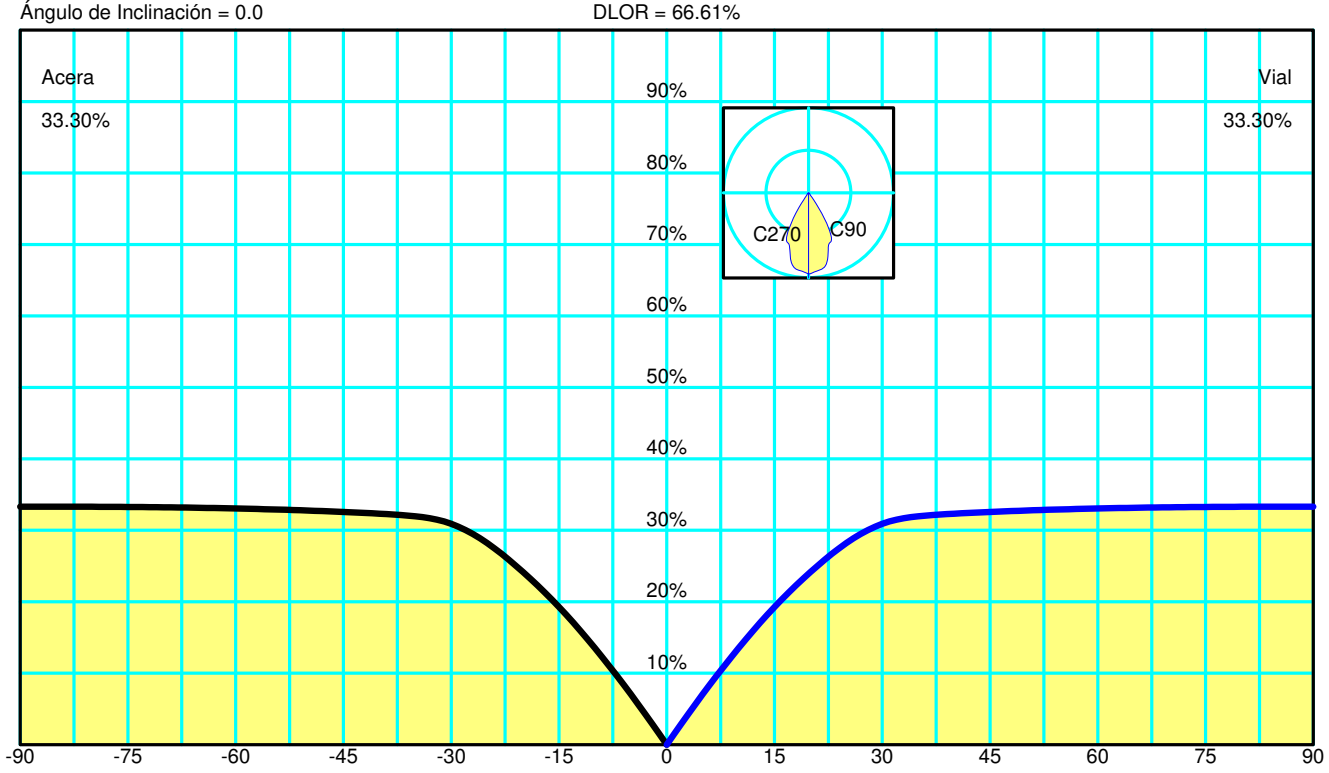
Luminaire
Code TC-1200-BLA
Name Downlight for light 1x50W GU5.3
Measurem.
Code TC-1200-BL
Name Downlight for light 1x50W GU5.3

Luminaire Flux	570.80 lm	Luminaire Power	50.00 W	Efficacy	11.42 lm/W	Efficiency	66.61%
Lamps Flux	857.00 lm	Maximum value	784.73 cd	Position	C=15.00 G=5.00	CG	Double Symmetrical

Pavement			Road		
Piano	0	0.00%	Piano	0	0.00%
Piano	-5	7.04%	Piano	5	7.04%
Piano	-10	13.52%	Piano	10	13.52%
Piano	-15	19.26%	Piano	15	19.26%
Piano	-20	24.17%	Piano	20	24.17%
Piano	-25	28.21%	Piano	25	28.21%
Piano	-30	30.91%	Piano	30	30.91%
Piano	-35	31.96%	Piano	35	31.96%
Piano	-40	32.33%	Piano	40	32.33%
Piano	-45	32.57%	Piano	45	32.57%
Piano	-50	32.77%	Piano	50	32.77%
Piano	-55	32.93%	Piano	55	32.93%
Piano	-60	33.05%	Piano	60	33.05%
Piano	-65	33.15%	Piano	65	33.15%
Piano	-70	33.22%	Piano	70	33.22%
Piano	-75	33.27%	Piano	75	33.27%
Piano	-80	33.29%	Piano	80	33.29%
Piano	-85	33.30%	Piano	85	33.30%
Piano	-90	33.30%	Piano	90	33.30%

Ángulo de Inclinación = 0.0

DLOR = 66.61%



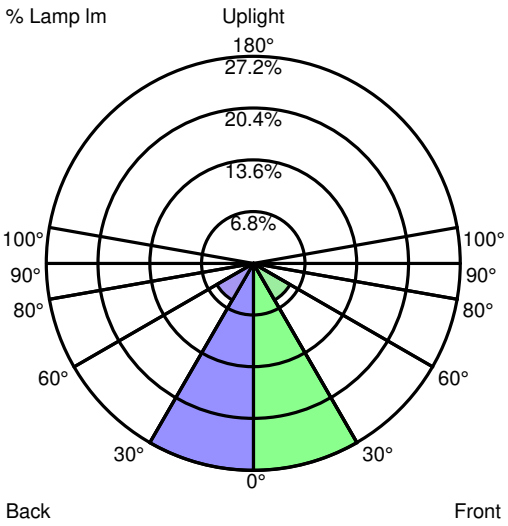
Spread	12.6° Estrecho	DLOR	66.60501 %
Throw	5.9° Corto	ULOR	0.00000 %
SLI (deslumbramiento)	9.8 Concentrado	Rendimiento	66.60501 %
Cutoff CIE	Cutoff - Max: C=15.0° Gamma=5.0°	RN	0.00000 %
Cutoff Iesna	Cutoff	Clase de Intensidad Luminosa	G5
DIN5044	KB1	Índice de Deslumbramiento	D6

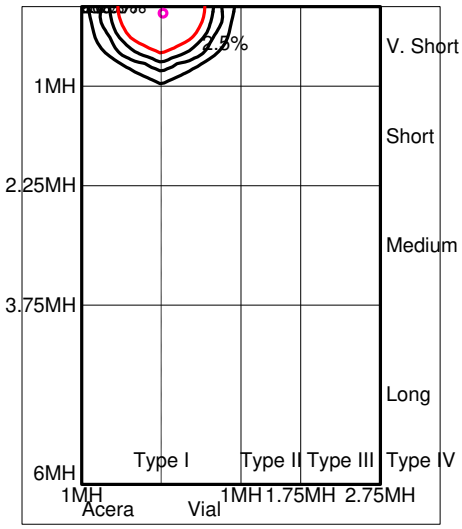
IESNA Type VS Very Short Quadrilateral Symmetry

Luminaire
Code TC-1200-BLA
Name Downlight for light 1x50W GU5.3
Measurem.
Code TC-1200-BL
Name Downlight for light 1x50W GU5.3

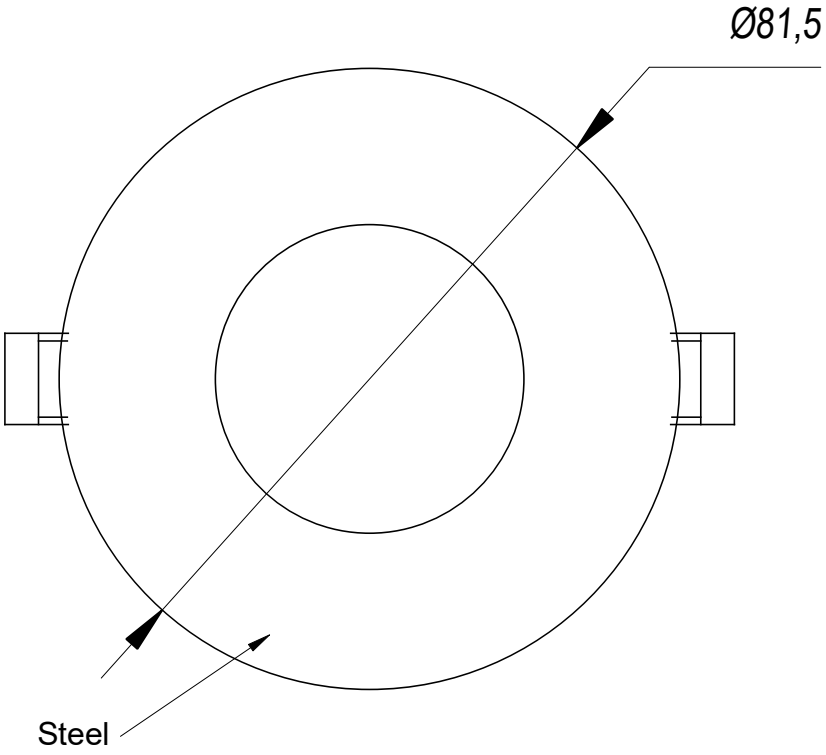
Luminaire Flux	570.80 lm	Luminaire Power	50.00 W	Efficacy	11.42 lm/W	Efficiency	66.61%
Lamps Flux	857.00 lm	Maximum value	784.73 cd	Position	C=15.00 G=5.00	CG	Double Symmetrical

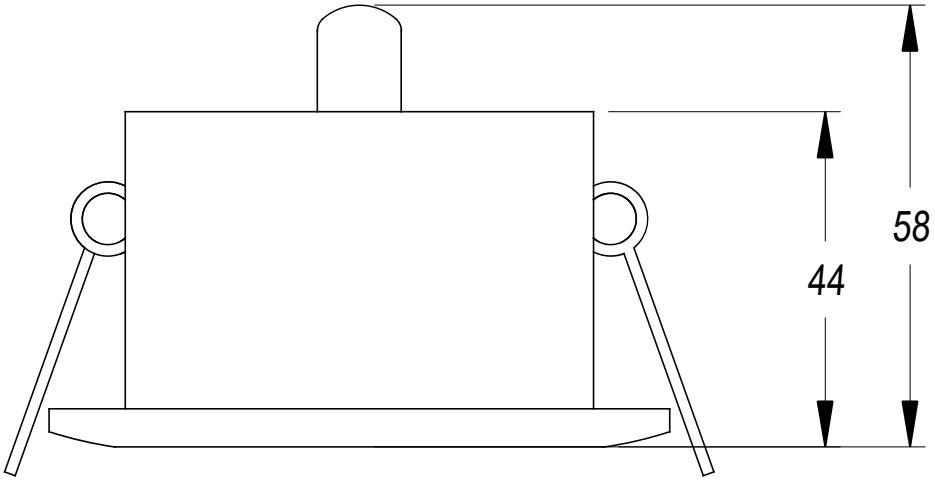
US ROAD STANDARDS

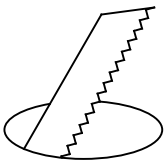




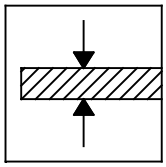
Luminaire Classification System (LCS)				
LCS Zone		Lumens	%Lamp	%Lum
FL	0° -- 30°	233.1 lm	27.2 %	40.8 %
FM	30° -- 60°	47.6 lm	5.6 %	8.3 %
FH	60° -- 80°	4.5 lm	0.5 %	0.8 %
FVH	80° -- 90°	0.2 lm	0.0 %	0.0 %
BL	0° -- 30°	233.1 lm	27.2 %	40.8 %
BM	30° -- 60°	47.6 lm	5.6 %	8.3 %
BH	60° -- 80°	4.5 lm	0.5 %	0.8 %
BVH	80° -- 90°	0.2 lm	0.0 %	0.0 %
UL	90° -- 100°	0.0 lm	0.0 %	0.0 %
UH	100° -- 180°	0.0 lm	0.0 %	0.0 %
TOTALS		570.8 lm	66.6 %	100.0 %
BUG B1 U0 G0 Type VS Very Short Quadrilateral Symmetry				







Ø70



0-16mm

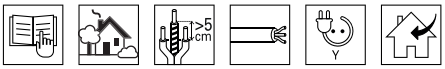
Scale 1:1

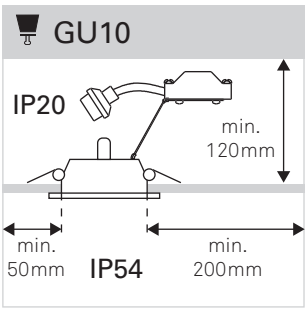
02-03-2015

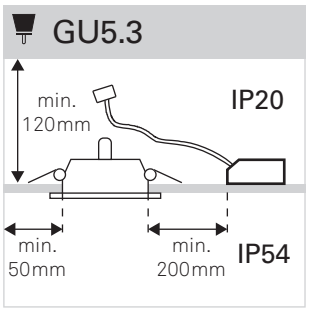
Minor

TC-1200

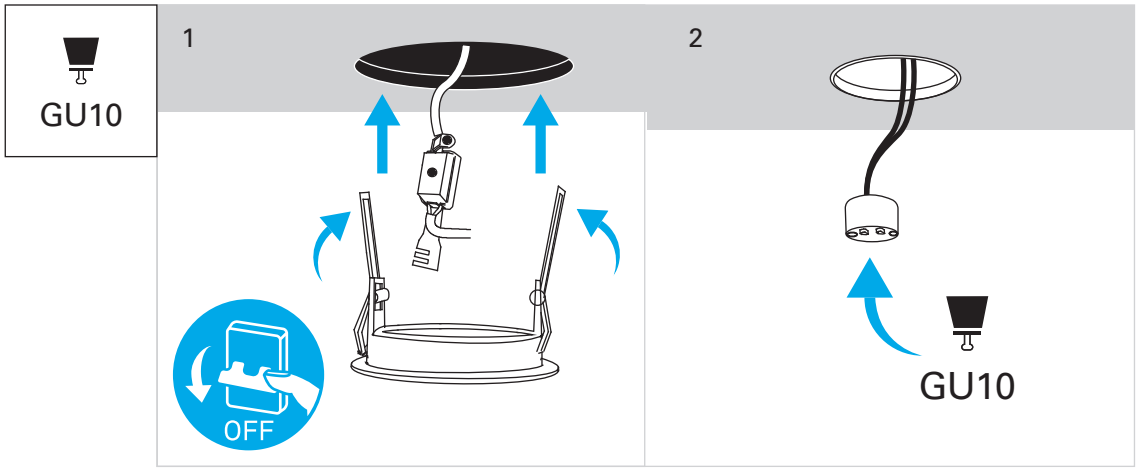
FOR LIGHT

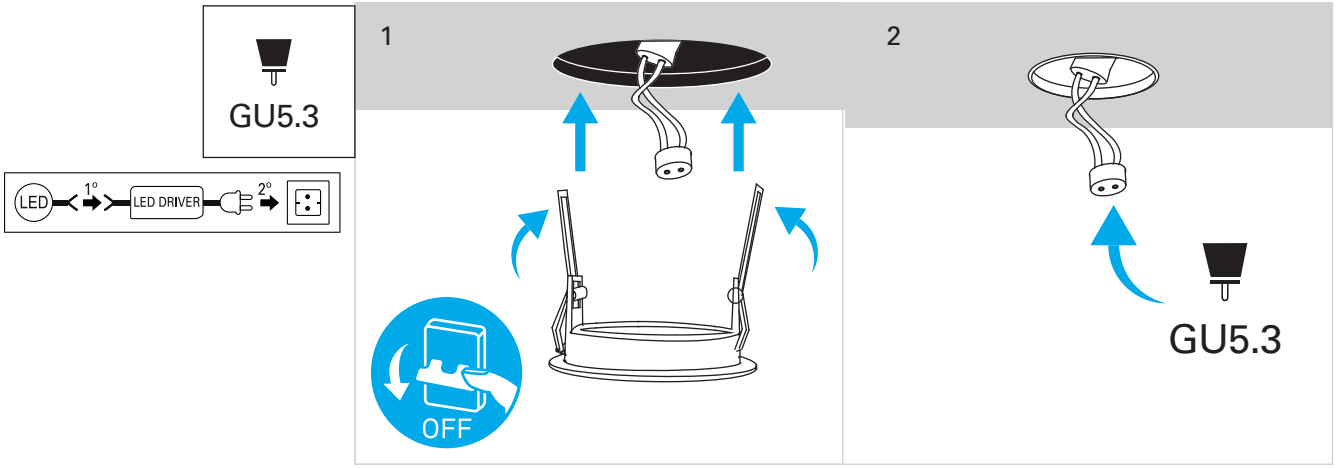


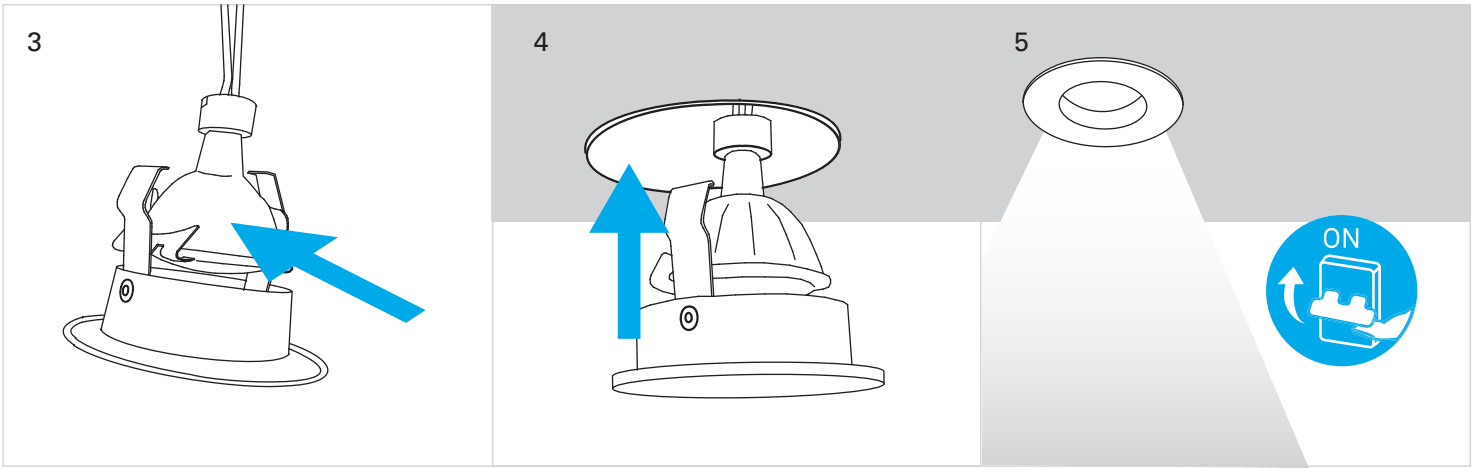












06-09-2021