



Minor

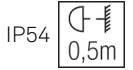
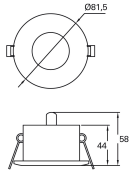
Installation Instructions  
3D File  
Photometry  
Revit



## TC-1200-SAT

Wall fixture IP54 Minor Chrome

### TECHNICAL FEATURES

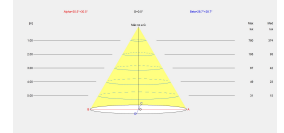


Structure material : Aluminium  
Structure finish : Satin nickel  
Diffuser material : Glass  
Diffuser finish : Transparent  
Recommended light bulb : GU10/G5.3

Equipment necessary but not included :  
Voltage / frequency : 12V/50-60Hz  
Warranty : 5 Years  
Energy efficiency : Light bulb not included

### LUMINOTECHNIC FEATURES

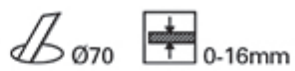
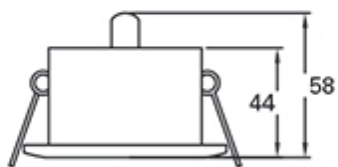
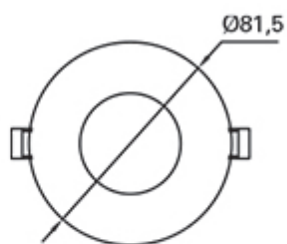
Lampholder: 1 x GU10/G5.3



### LOGISTICS

Net weight (kg): 0.2  
Packaged weight (kg): 0.24  
Packaging: 90mm x 90mm x 70mm





**Luminaire**

Code TC-1200-SAT  
 Name Downlight minor 1x50W GU5.3

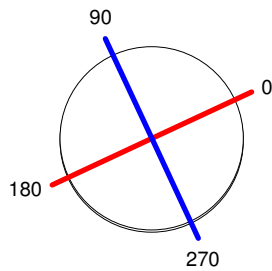
**Measur.**

Code TC-1200-SAT  
 Name Downlight minor 1x50W GU5.3

Luminaire Flux	570.81 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 Round Luminous Area		Diam.	40 mm	Height	1 mm		
		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				Source Voltage [V]			
Temperature	25.00 °C			Source current [A]			
Humidity	60.00 %			Photocell			
Notes							

Line		Code	Luminaire Lamps		Flux [lm]	Pow. [W]	Q.ty
		46870VWFL	Name	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		

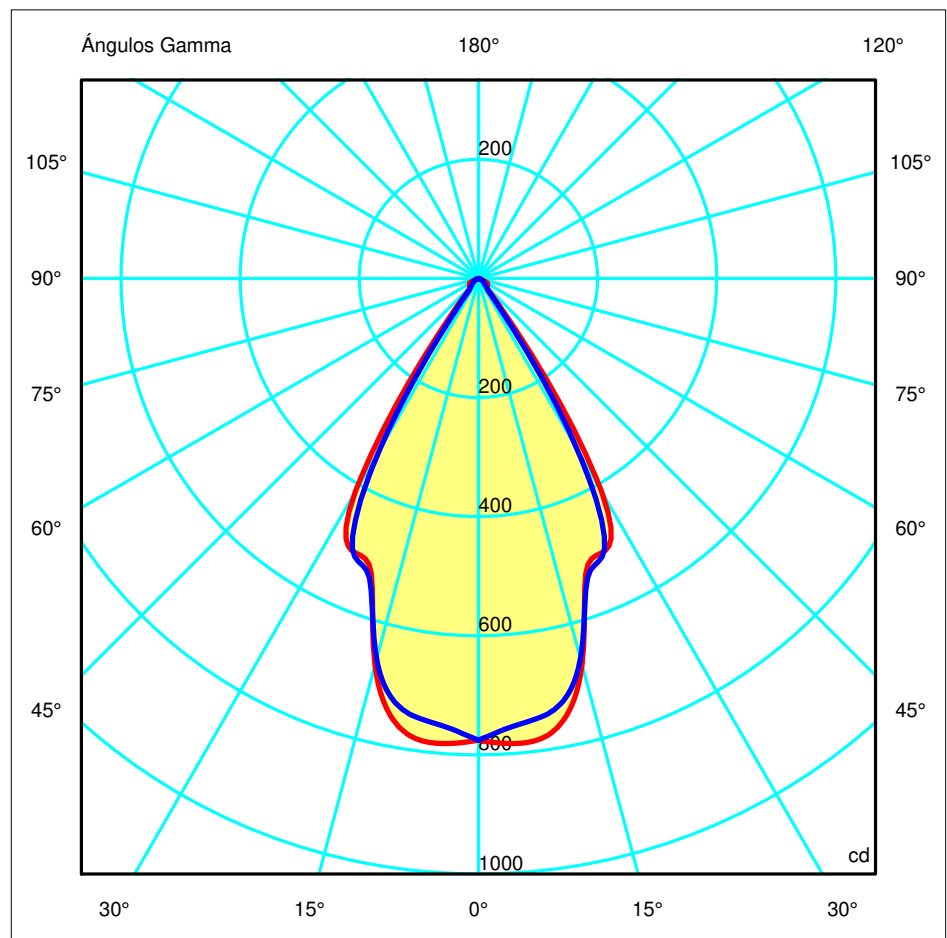
Diam=40mm



Semiplanos C

180.0 — 0.0  
 270.0 — 90.0

ULOR 0.00 %  
 DLOR 66.61 %  
 RN 0.00 %



**Luminaire**

Code TC-1200-SAT  
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**Measur.**

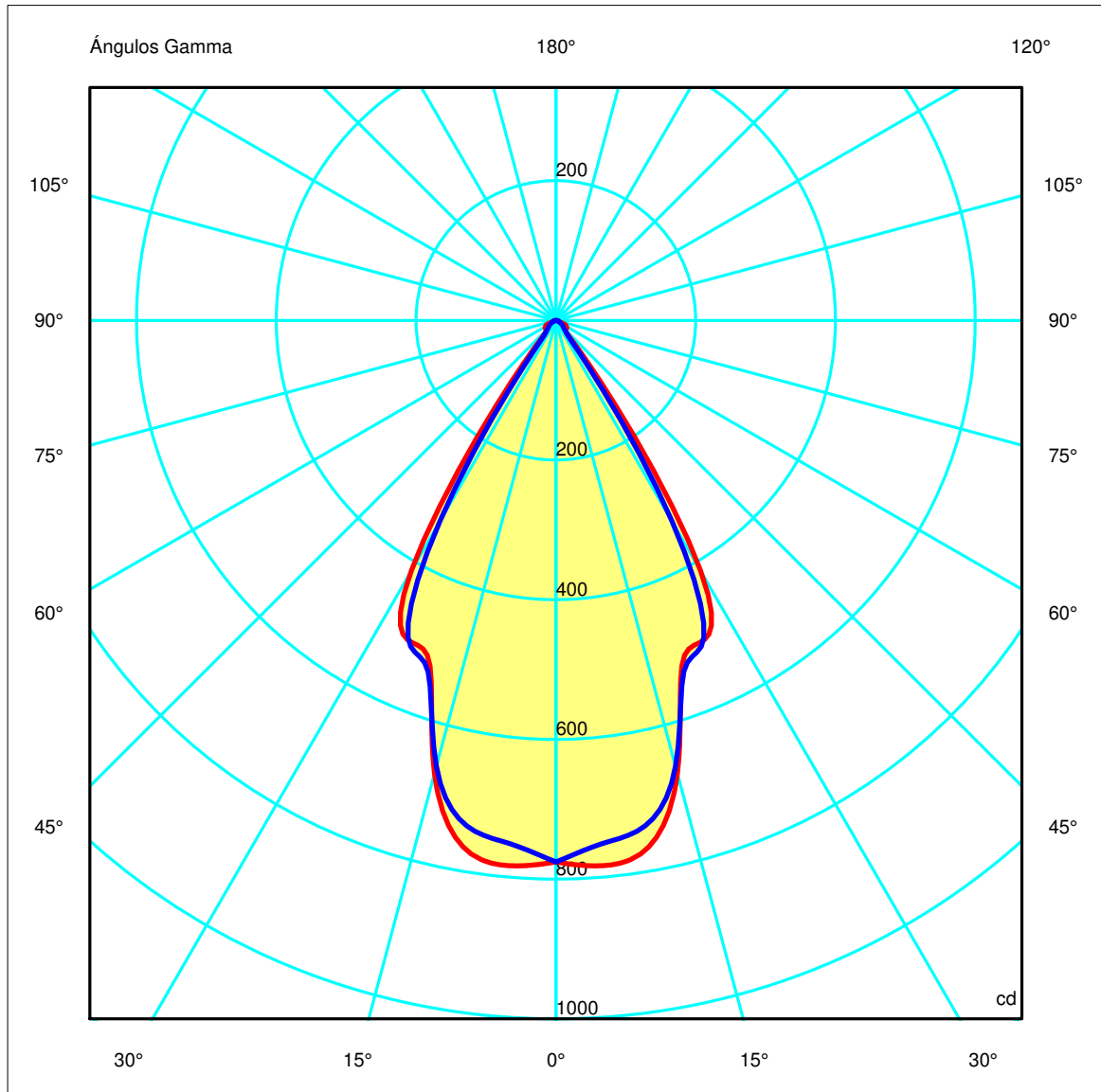
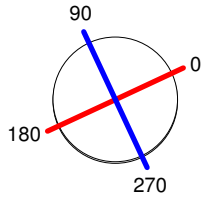
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Diam=40mm

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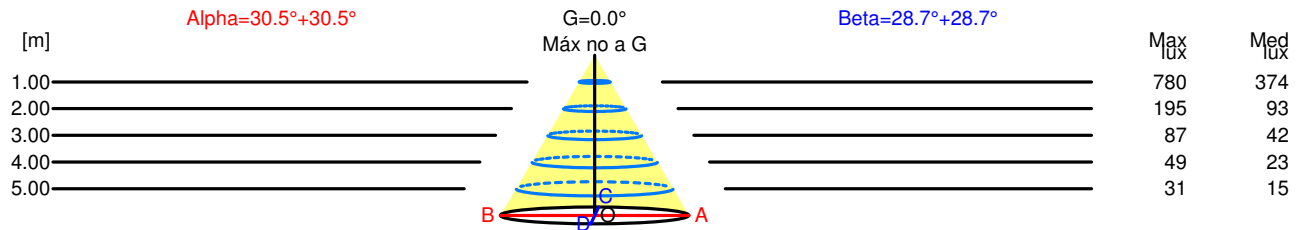
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Width at 50.00 % of Max Intensity

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	Alpha=30.5°+30.5°	G=0.0 Máx no a G	
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			

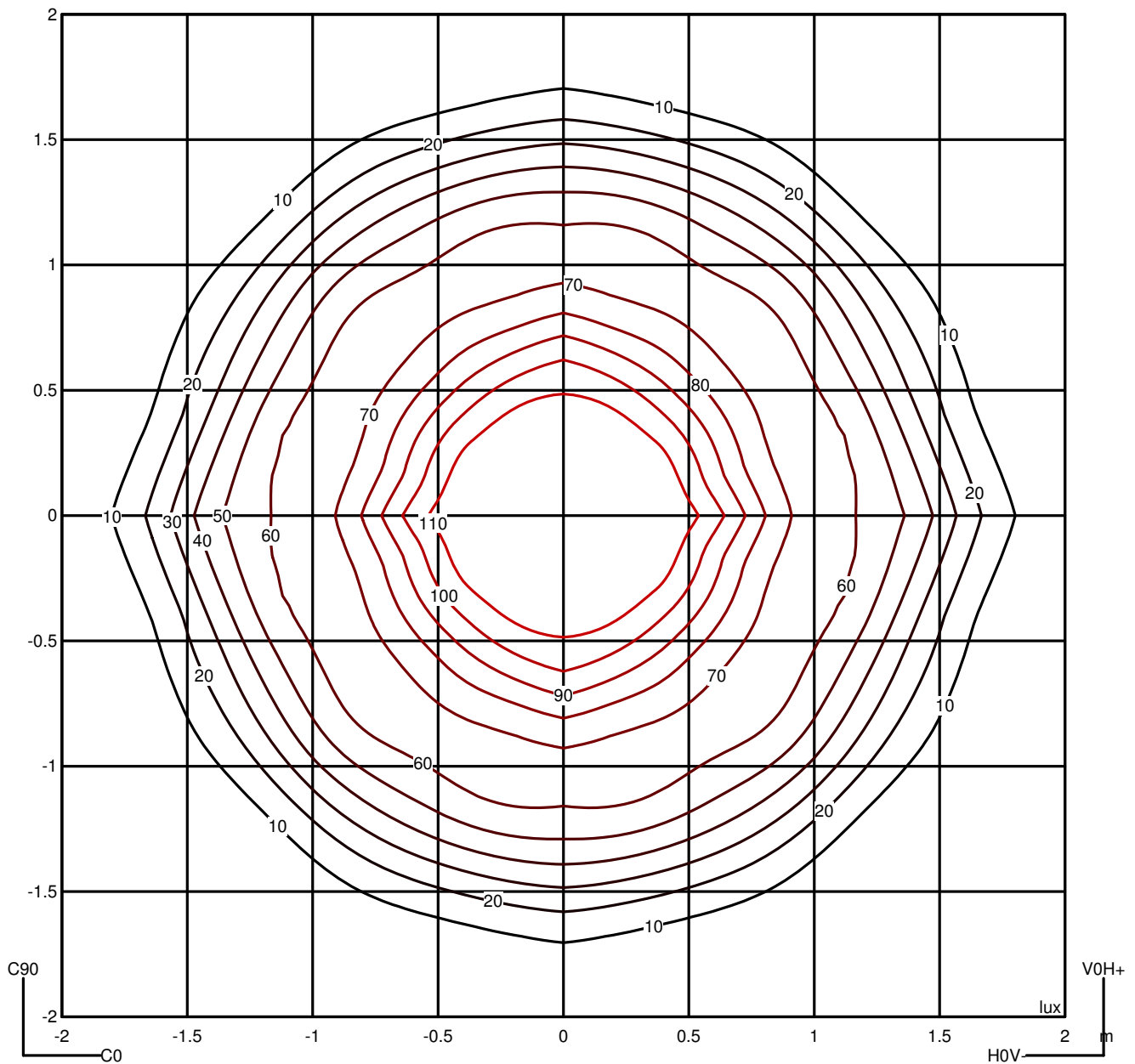
H[m]	D[m]	Max lux	Med lux	Beta=28.7°+28.7°	G=0.0 Máx no a G	
1.00	1.10	780	374			
2.00	2.19	195	93			
3.00	3.29	87	42			
4.00	4.38	49	23			
5.00	5.48	31	15			

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Isolux (Floor)

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



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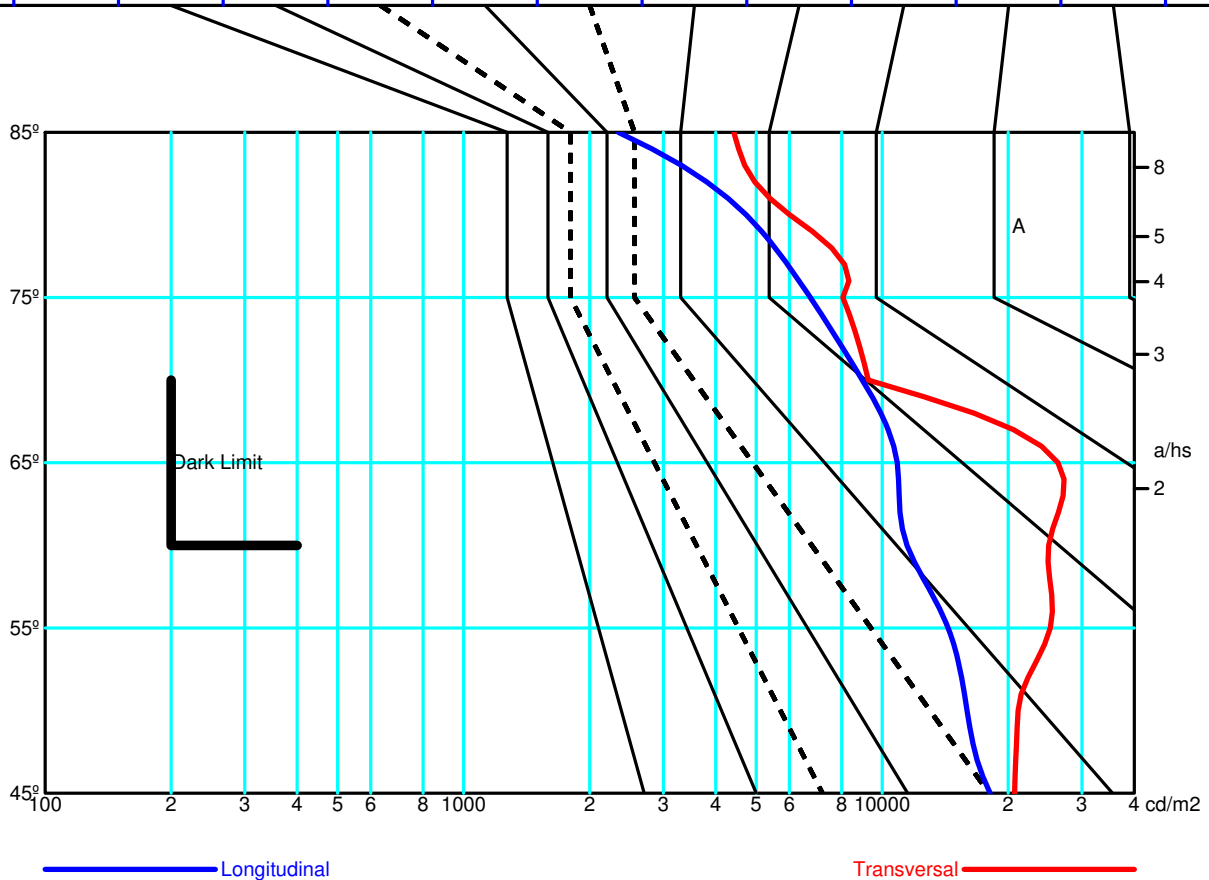
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		Average Luminance [cd/m <sup>2</sup> ]									
		45°	50°	55°	60°	65°	70°	75°	80°	85°	
0.0°		20712	21112	25201	24979	26299	9264	8052	6017	4419	---
90.0°		18105	15947	14372	11464	10858	8965	6733	4736	2343	---

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**

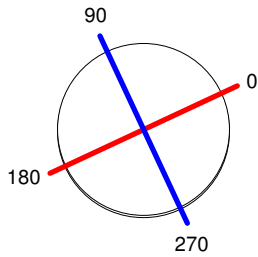
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**Measurement**

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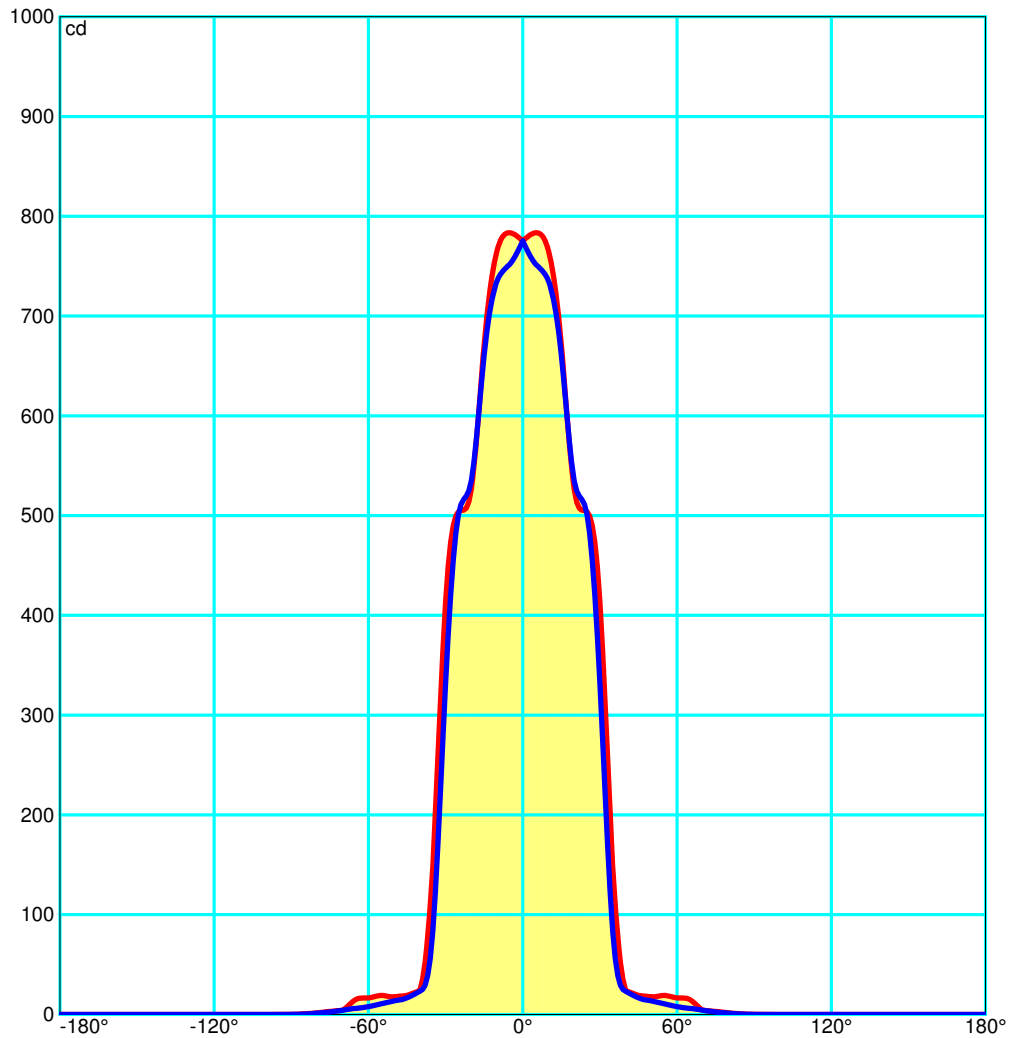
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Diam=40mm



Semiplanos C

180.0 ———— 0.0  
 270.0 ———— 90.0







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**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

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**Measurum.**

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Flujo Total=857.00 Flujo Luminaria=570.81

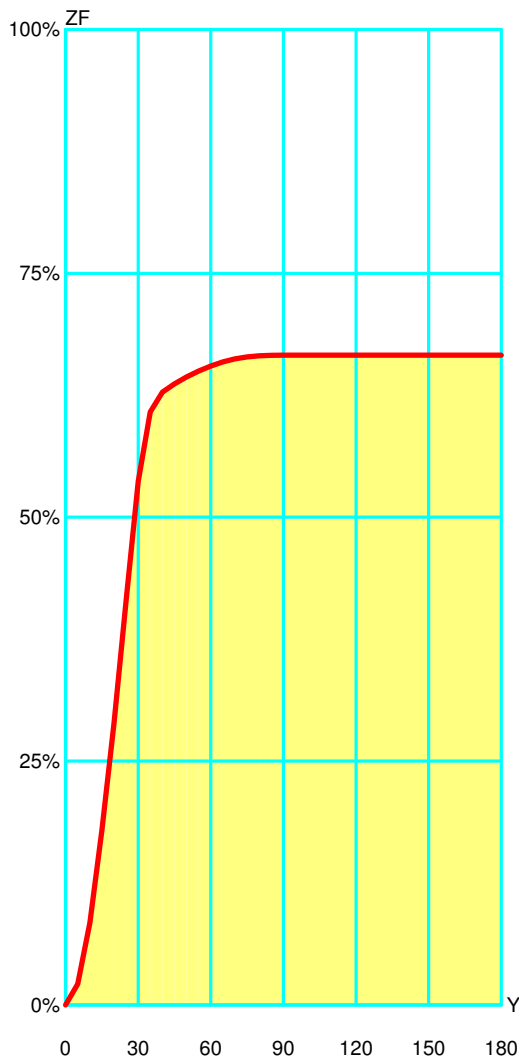
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.70	0.75	0.80	0.83	0.86	0.91	0.94	0.96	0.98	0.99	1.01	1.02
RC	-	-	-	-	-	-	-	-	-	-	-	-

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	66.60523 %
D DIN 5040	A60	ULOR	0.00000 %
F UTE	0.67 A	DLOR	66.60523 %
B NBN	BZ 1	UFF	0.00000 %
RN	0.00000 %	DFF	100.00000 %
BLF	1.0	FFR	0.00000 %



Gamma °	Flujo Zonal			
	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	628.26	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	649.93	0.93 %	97.58 %
60°	5.06	654.98	0.76 %	98.34 %
65°	4.20	659.19	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 %

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**Measur.**

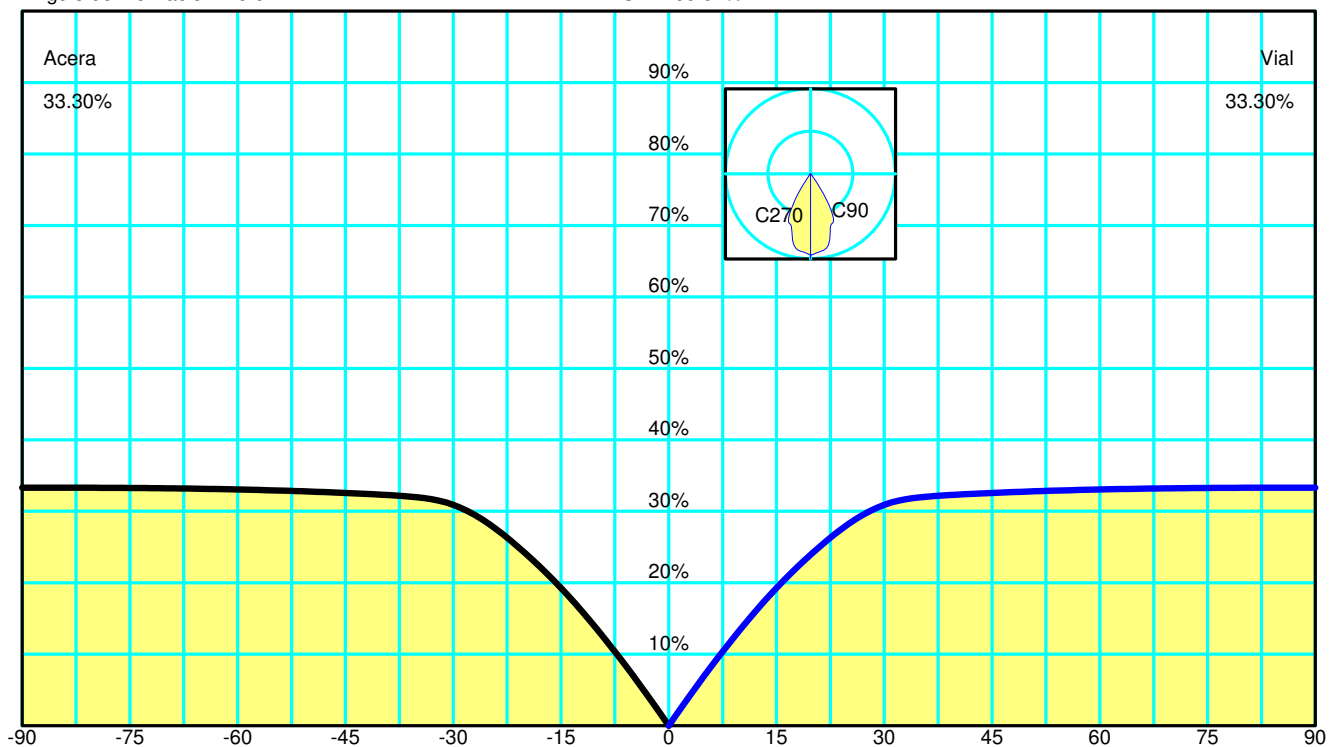
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Pavement			Road		
Piano	0	0.00%	Piano	0	0.00%
Piano	-5	7.04%	Piano	5	7.04%
Piano	-10	13.52%	Piano	10	13.52%
Piano	-15	19.26%	Piano	15	19.26%
Piano	-20	24.17%	Piano	20	24.17%
Piano	-25	28.21%	Piano	25	28.21%
Piano	-30	30.91%	Piano	30	30.91%
Piano	-35	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	66.60523 %
Throw	5.9° Corto	ULOR	0.00000 %
SLI (deslumbramiento)	Concentrado	Rendimiento	66.60523 %
Cutoff CIE	Cutoff - Max: C=15.0° Gamma=5.0°	RN	0.00000 %
Cutoff lesna	Cutoff	Clase de Intensidad Luminosa	G5
DIN5044	KB1	Índice de Deslumbramiento	D6

IESNA Type VS Very Short Quadrilateral Symmetry

**Luminaire**

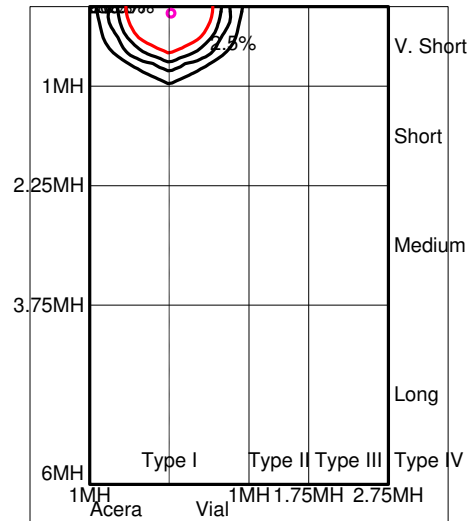
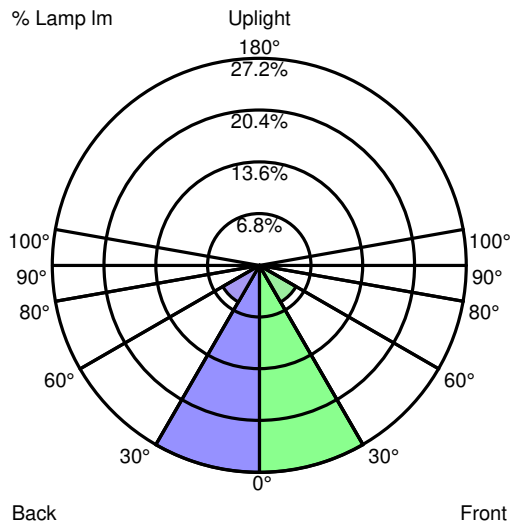
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**Measurment**

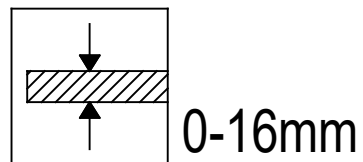
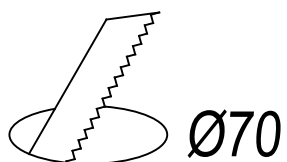
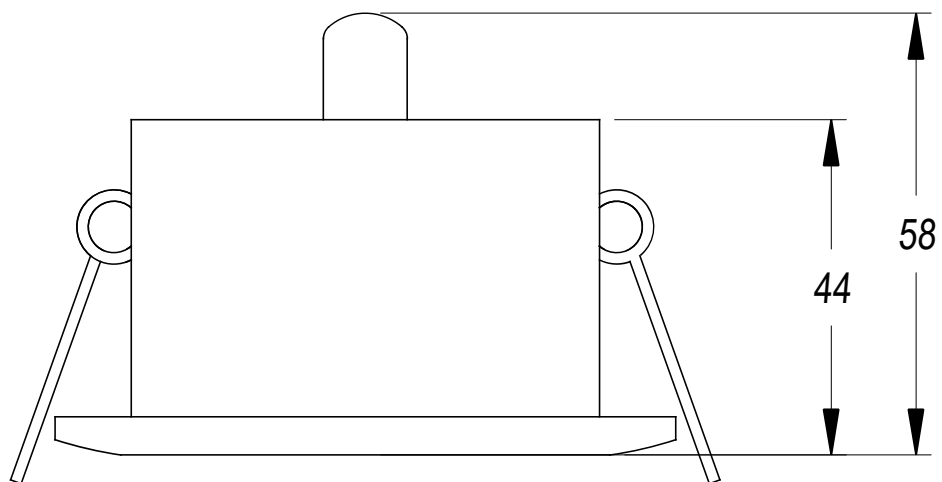
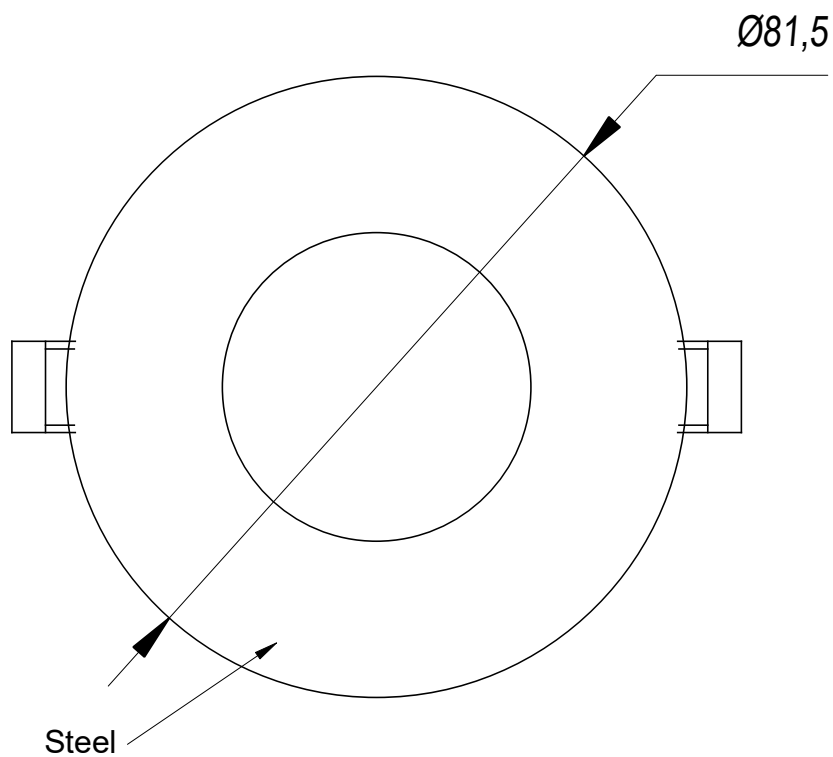
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US ROAD STANDARDS



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				



Scale 1:1

