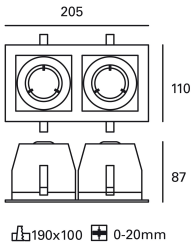
Installation Instructions
Photometry

Cardan Double

TC-1401-BLA

Recessed ceiling lights Cardan Double GU10 16W White IN IP20 / OUT IP23





100x190 0-20

TECHNICAL FEATURES

IN IP20 / OUT IP23 20° 0,5m

Luminaire total power : 16W

Structure material : Steel

Structure finish : White

Max. size of light bulb : 55/50 mm

Recommended light bulb : GU10

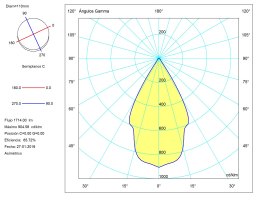
Voltage / frequency : 100-240V ~ 50/60Hz

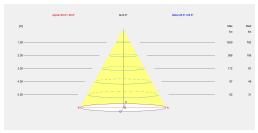
Warranty : 5 Years

Easily recyclable luminaire

LUMINOTECHNIC FEATURES

Lampholder	Quantity	Light source power (W)	Correlated Colour Temperature (CCT)
GU10	2	Max. power 8W	-





LOGISTICS

Net weight (kg): 0.68

Packaged weight (kg): 0.84

Packaging: 220mm x 150mm x 105mm

16 Un

LIGHT APPLICATION

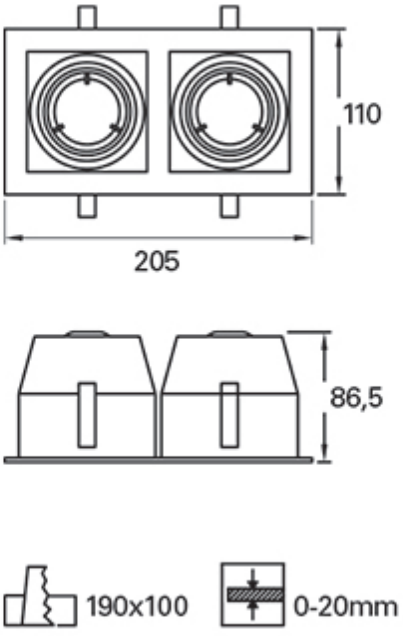


Image may not match reference. LEDS C4 reserves the right to amend any of the product's components. The data related to flux, power and colour temperature are subject to a tolerance of ±10%.

Luminaire
Code TC-1401-BLA
Name Downlight CARDAN 2x50W GU5.3
Measurem.
Code TC-1401-BLA
Name Downlight CARDAN 2x50W GU5.3

Luminaire Flux	1126.41 lm	Luminaire Power	50.00 W	Efficacy	22.53 lm/W	Efficiency	65.72%
Lamps Flux	1714.00 lm	Maximum value	1550.45 cd	Position	C=0.00 G=0.00	CG	Asymmetrical

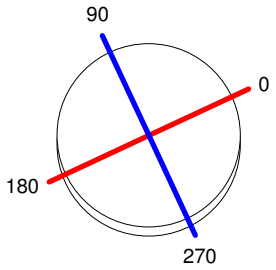
Round Luminaire	Diam. 110 mm	Height	86 mm
Round Luminous Area	Diam. 40 mm	Height	1 mm
Horizontal Luminous Area	0.001257 m2	Emitting area on Plane 180°	0.000040 m2
Emitting area on Plane 0°	0.000040 m2	Emitting area on Plane 270°	0.000040 m2
Emitting area on Plane 90°	0.000040 m2	Glare area at 76°	0.000343 m2
Coordinate system	CG	Symmetry Type	Asymmetrical
Date	27-01-2016	Maximum Gamma Angle	180
Measurement Distance	0.00	Measurement Flux	1714.00 lm
Operator	Asselum	Source Voltage [V]	
Temperature	25.00 °C	Source current [A]	
Humidity	60.00 %	Photocell	
Notes			

Luminaire Lamps

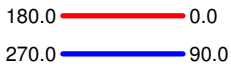
Line	Code	Name	Flux [lm]	Pow. [W]	Q.ty
	46870VWFL	46870VWFL - 25.00 W	857.00	25.00	2

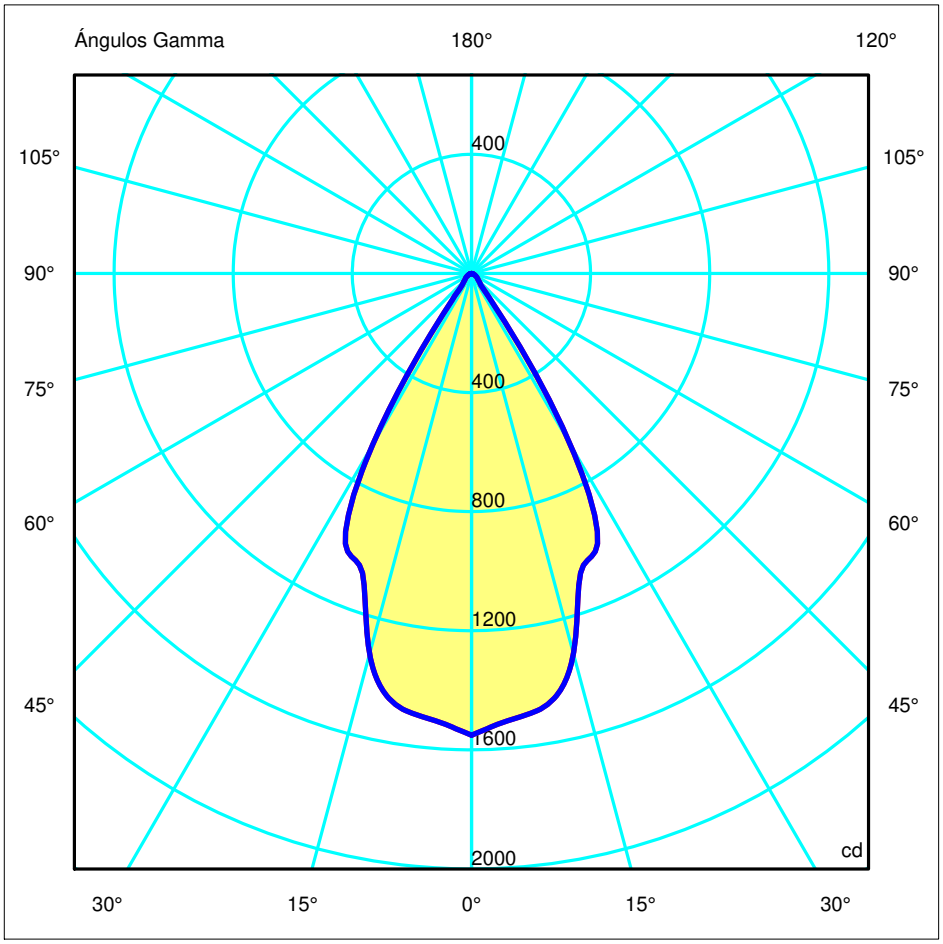
C.I.E.	95 98 100 100 66	D DIN 5040	A60
F UTE	0.66 A	B NBN	BZ 1

Diam=110mm



Semiplanos C



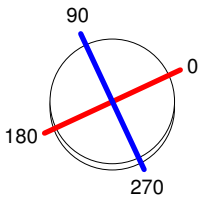


ULOR	0.00 %
DLOR	65.72 %
RN	0.00 %

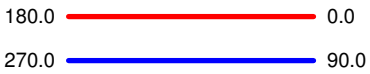
Luminaire
Code TC-1401-BLA
Name Downlight CARDAN 2x50W GU5.3
Measurem.
Code TC-1401-BLA
Name Downlight CARDAN 2x50W GU5.3

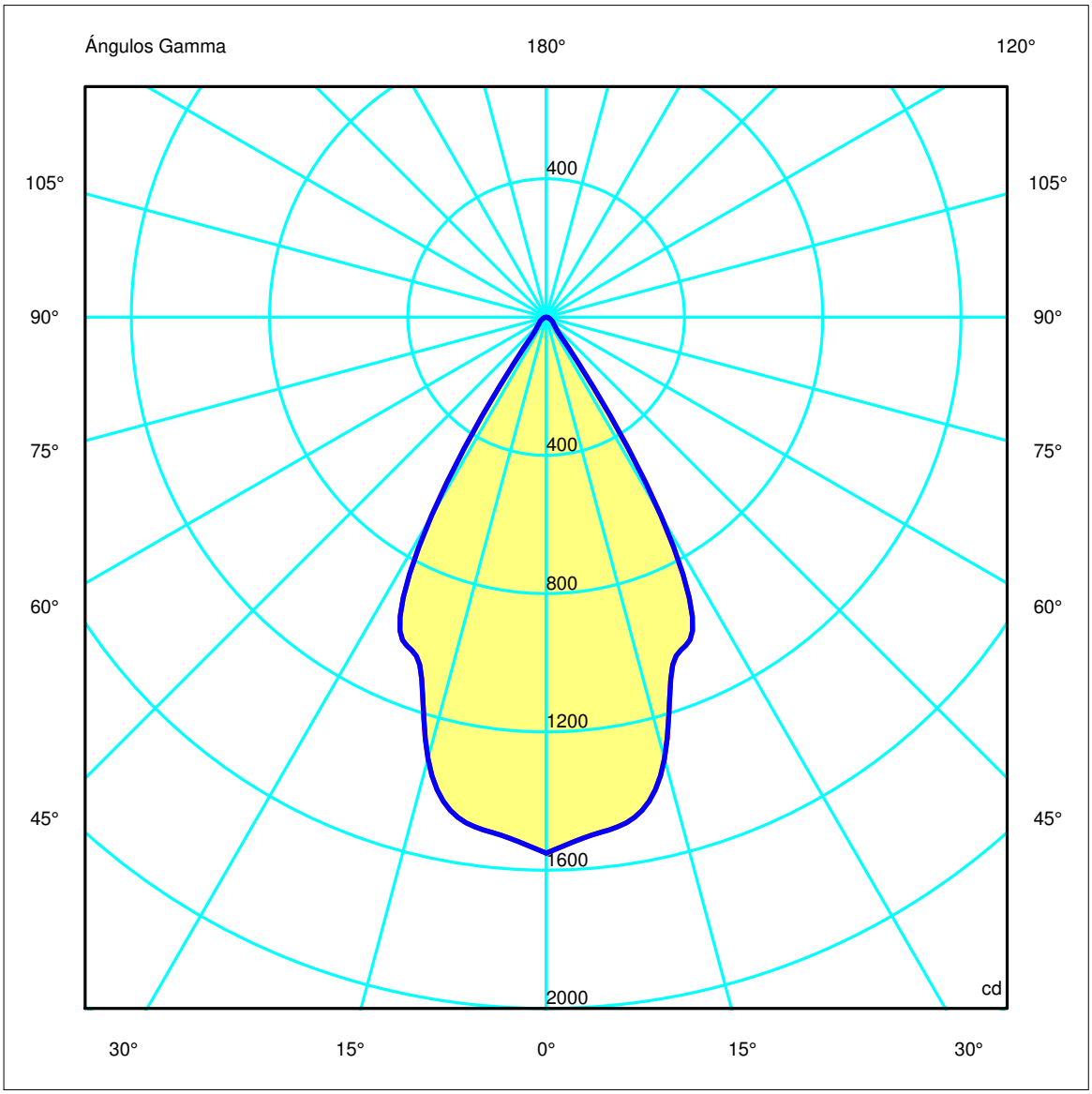
Luminaire Flux	1126.41 lm	Luminaire Power	50.00 W	Efficacy	22.53 lm/W	Efficiency	65.72%
Lamps Flux	1714.00 lm	Maximum value	1550.45 cd	Position	C=0.00 G=0.00	CG	Asymmetrical

Diam=110mm



Semiplanos C





Luminaire
Code TC-1401-BLA
Name Downlight CARDAN 2x50W GU5.3
Measurem.
Code TC-1401-BLA
Name Downlight CARDAN 2x50W GU5.3

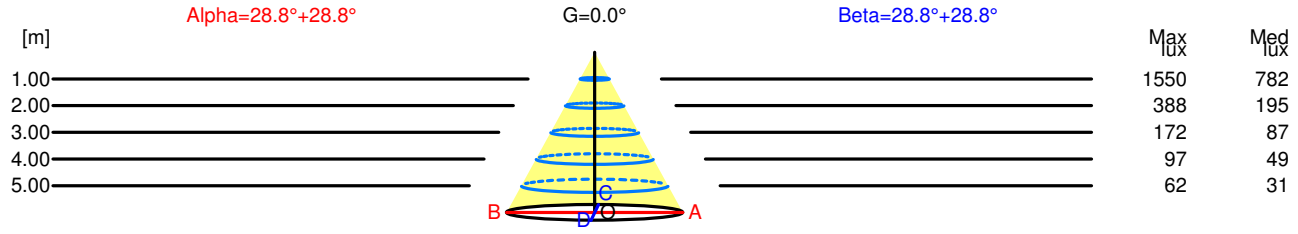
Luminaire Flux	1126.41 lm	Luminaire Power	50.00 W	Efficacy	22.53 lm/W	Efficiency	65.72%
Lamps Flux	1714.00 lm	Maximum value	1550.45 cd	Position	C=0.00 G=0.00	CG	Asymmetrical

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	0.55	1.10	1.65	2.20	2.75	OC	0.55	1.10	1.65	2.20	2.75
OB	0.55	1.10	1.65	2.20	2.75	OD	0.55	1.10	1.65	2.20	2.75

Luminous Intensities [cd]

	0	5	15	25	35	45	55	65	75	85
OA	1550.45	1504.15	1322.09	1001.25	165.97	33.21	21.66	12.33	4.90	0.70
OB	1550.45	1504.15	1322.09	1001.25	165.97	33.21	21.66	12.33	4.90	0.70
OC	1550.45	1504.15	1322.09	1001.25	165.97	33.21	21.66	12.33	4.90	0.70
OD	1550.45	1504.15	1322.09	1001.25	165.97	33.21	21.66	12.33	4.90	0.70



H[m]	D[m]	Max lux	Med lux	Alpha=28.8°+28.8° G=0.0
1.00	1.10	1550	782	
2.00	2.20	388	195	
3.00	3.30	172	87	
4.00	4.40	97	49	
5.00	5.50	62	31	

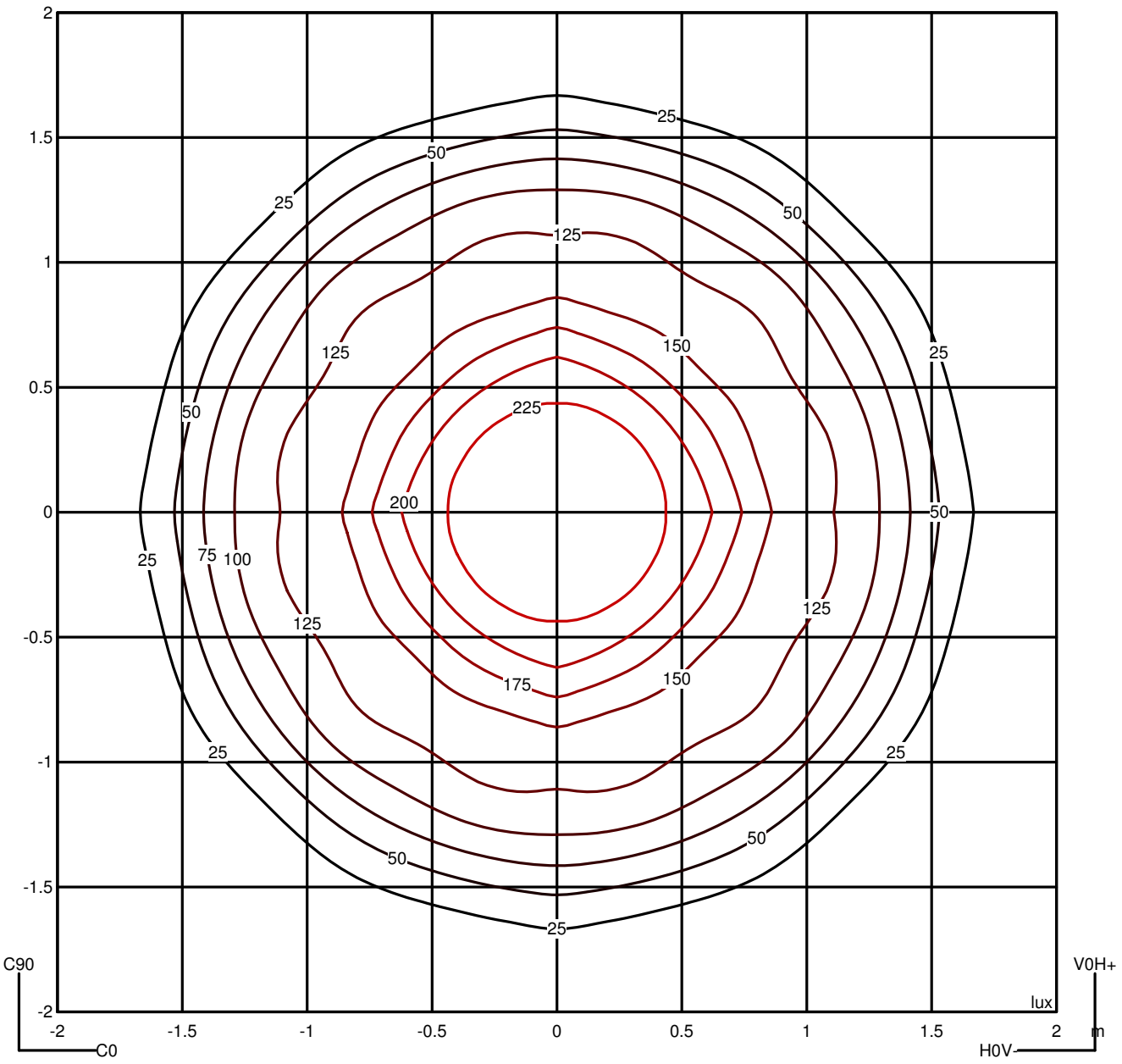
H[m]	D[m]	Max lux	Med lux	Beta=28.8°+28.8° G=0.0
1.00	1.10	1550	782	
2.00	2.20	388	195	
3.00	3.30	172	87	
4.00	4.40	97	49	
5.00	5.50	62	31	

Luminaire
Code TC-1401-BLA
Name Downlight CARDAN 2x50W GU5.3
Measurem.
Code TC-1401-BLA
Name Downlight CARDAN 2x50W GU5.3

Luminaire Flux	1126.41 lm	Luminaire Power	50.00 W	Efficacy	22.53 lm/W	Efficiency	65.72%
Lamps Flux	1714.00 lm	Maximum value	1550.45 cd	Position	C=0.00 G=0.00	CG	Asymmetrical

Isolux (Floor)

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



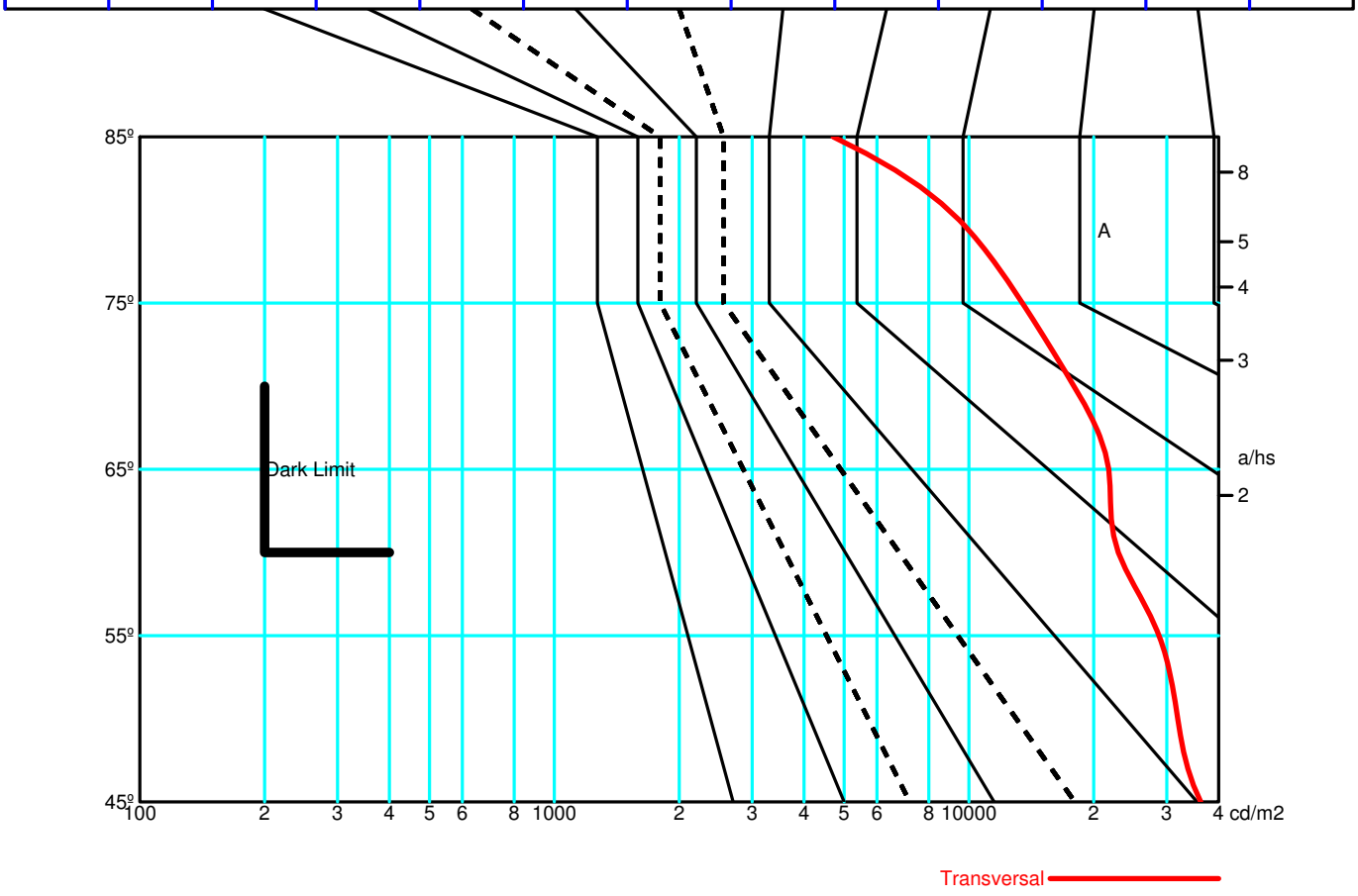
Luminaire
Code TC-1401-BLA
Name Downlight CARDAN 2x50W GU5.3
Measurem.
Code TC-1401-BLA
Name Downlight CARDAN 2x50W GU5.3

Luminaire Flux	1126.41 lm	Luminaire Power	50.00 W	Efficacy	22.53 lm/W	Efficiency	65.72%
Lamps Flux	1714.00 lm	Maximum value	1550.45 cd	Position	C=0.00 G=0.00	CG	Asymmetrical

Average Luminance [cd/m²]

0.0°	45°	50°	55°	60°	65°	70°	75°	80°	85°	
	36218	31895	28744	22915	21732	17928	13453	9473	4706	---

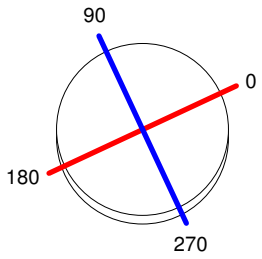
Flujo montado o vista longitudinal												
		Iluminancia (lx)										
A	A	2000	1000	750	500		<300					1.15
B	1		2000	1500	1000	750	500	<300				1.5
C					2000		1000	500	<300			1.85
D	2						2000	1000	500	<300		2.2
E	3							2000	1000	500	<300	2.55



Luminaire
Code TC-1401-BLA
Name Downlight CARDAN 2x50W GU5.3
Measurem.
Code TC-1401-BLA
Name Downlight CARDAN 2x50W GU5.3

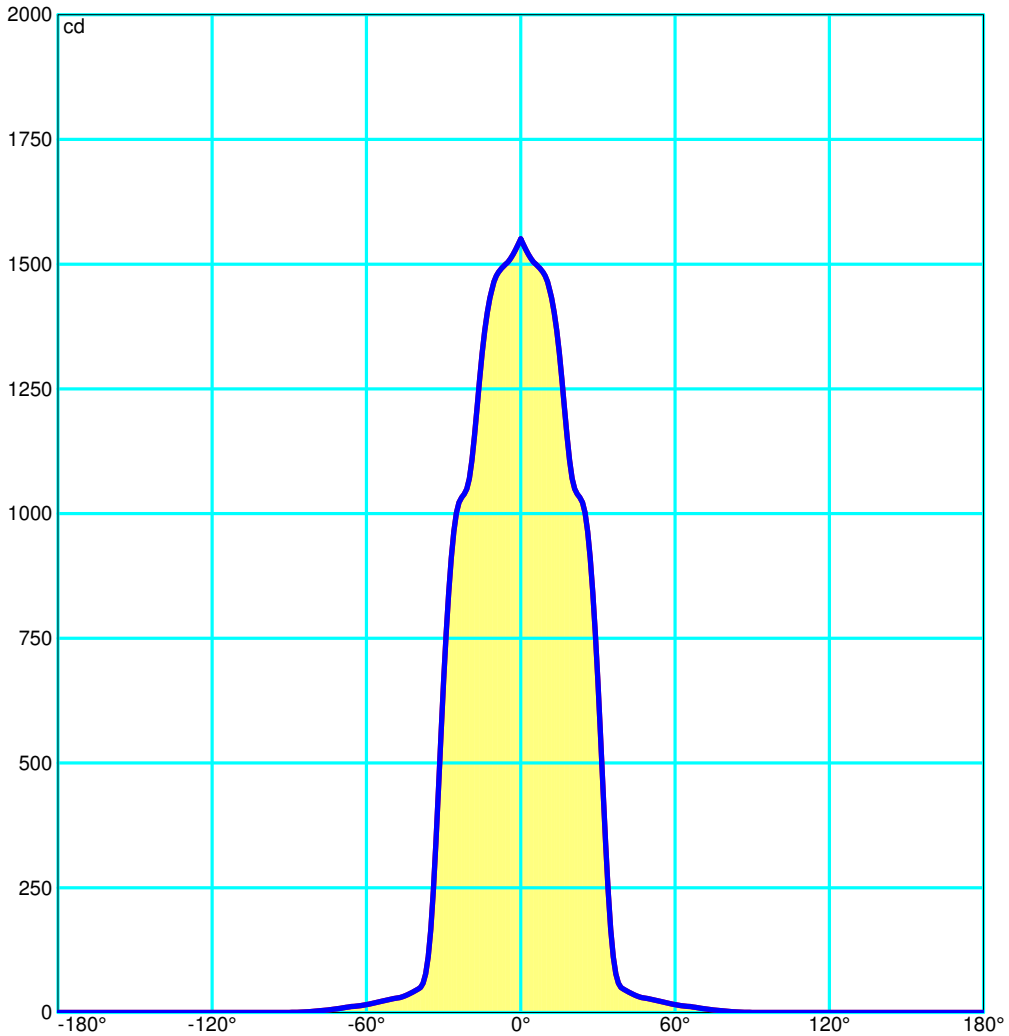
Luminaire Flux	1126.41 lm	Luminaire Power	50.00 W	Efficacy	22.53 lm/W	Efficiency	65.72%
Lamps Flux	1714.00 lm	Maximum value	1550.45 cd	Position	C=0.00 G=0.00	CG	Asymmetrical

Diam=110mm



Semiplanos C





Luminaire
Code TC-1401-BLA
Name Downlight CARDAN 2x50W GU5.3
Measurem.
Code TC-1401-BLA
Name Downlight CARDAN 2x50W GU5.3

Luminaire Flux	1126.41 lm	Luminaire Power	50.00 W	Efficacy	22.53 lm/W	Efficiency	65.72%
Lamps Flux	1714.00 lm	Maximum value	1550.45 cd	Position	C=0.00 G=0.00	CG	Asymmetrical

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	20.5	21.2	20.8	21.4	21.6	20.5	21.2	20.8	21.4	21.6
x=2H y=3H	20.8	21.4	21.1	21.7	21.9	20.8	21.4	21.1	21.7	21.9
x=2H y=4H	20.9	21.5	21.2	21.7	22.0	20.9	21.5	21.2	21.7	22.0
x=2H y=6H	20.9	21.4	21.2	21.7	22.0	20.9	21.4	21.2	21.7	22.0
x=2H y=8H	20.9	21.4	21.2	21.7	22.0	20.9	21.4	21.2	21.7	22.0
x=2H y=12H	20.9	21.4	21.2	21.6	22.0	20.9	21.4	21.2	21.6	22.0
x=4H y=2H	20.6	21.1	20.9	21.4	21.6	20.6	21.1	20.9	21.4	21.6
x=4H y=3H	20.9	21.4	21.3	21.7	22.0	20.9	21.4	21.3	21.7	22.0
x=4H y=4H	21.1	21.5	21.5	21.8	22.2	21.1	21.5	21.5	21.8	22.2
x=4H y=6H	21.1	21.5	21.5	21.9	22.2	21.1	21.5	21.5	21.9	22.2
x=4H y=8H	21.2	21.5	21.6	21.9	22.2	21.2	21.5	21.6	21.9	22.2
x=4H y=12H	21.1	21.4	21.5	21.8	22.2	21.1	21.4	21.5	21.8	22.2
x=8H y=4H	21.1	21.4	21.5	21.8	22.2	21.1	21.4	21.5	21.8	22.2
x=8H y=6H	21.2	21.4	21.6	21.8	22.3	21.2	21.4	21.6	21.8	22.3
x=8H y=8H	21.2	21.4	21.6	21.8	22.3	21.2	21.4	21.6	21.8	22.3
x=8H y=12H	21.2	21.3	21.6	21.8	22.3	21.2	21.3	21.6	21.8	22.3
x=12H y=4H	21.1	21.3	21.5	21.7	22.2	21.1	21.3	21.5	21.7	22.2
x=12H y=6H	21.2	21.3	21.6	21.8	22.2	21.2	21.3	21.6	21.8	22.2
x=12H y=8H	21.2	21.3	21.6	21.8	22.3	21.2	21.3	21.6	21.8	22.3

Luminaire
Code TC-1401-BLA
Name Downlight CARDAN 2x50W GU5.3
Measurem.
Code TC-1401-BLA
Name Downlight CARDAN 2x50W GU5.3

Luminaire Flux	1126.41 lm	Luminaire Power	50.00 W	Efficacy	22.53 lm/W	Efficiency	65.72%
Lamps Flux	1714.00 lm	Maximum value	1550.45 cd	Position	C=0.00 G=0.00	CG	Asymmetrical

Flujo Total=1714.00 Flujo Luminaria=1126.41

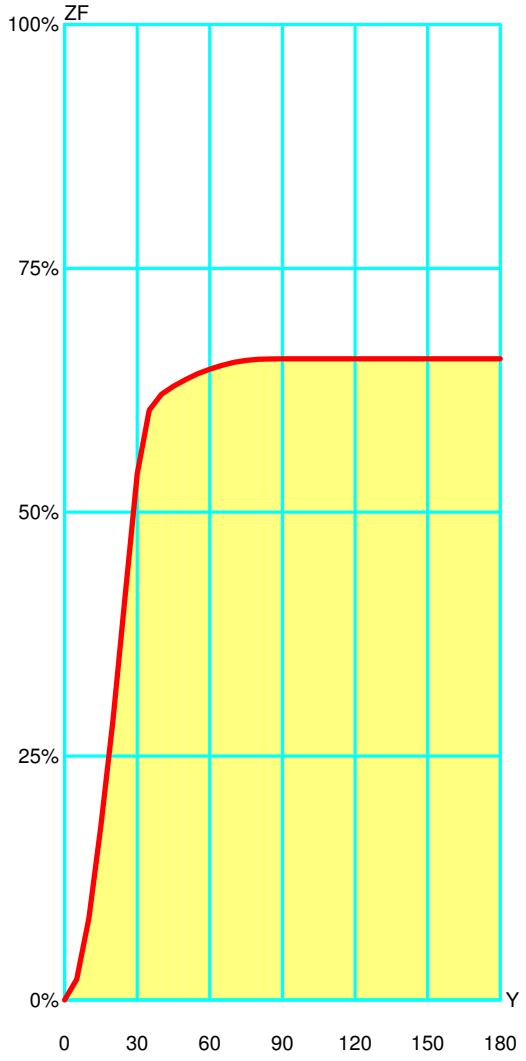
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.70	0.75	0.80	0.84	0.86	0.91	0.94	0.96	0.98	0.99	1.01	1.02
RC	-	-	-	-	-	-	-	-	-	-	-	-

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	288	540	621	636	647	654	657	657	657	657	657	657	657	657	657	657	657

Códigos de Flujo C.I.E.
95 98 100 100 66

C.I.E.	-/-/-/-/-/-/-/-/-/-/-	LOR	65.71806 %
D DIN 5040	A60	ULOR	0.00000 %
F UTE	0.66 A	DLOR	65.71806 %
B NBN	BZ 1	UFF	0.00000 %
RN	0.00000 %	DFF	100.00000 %
BLF	1.0	FFR	0.00000 %

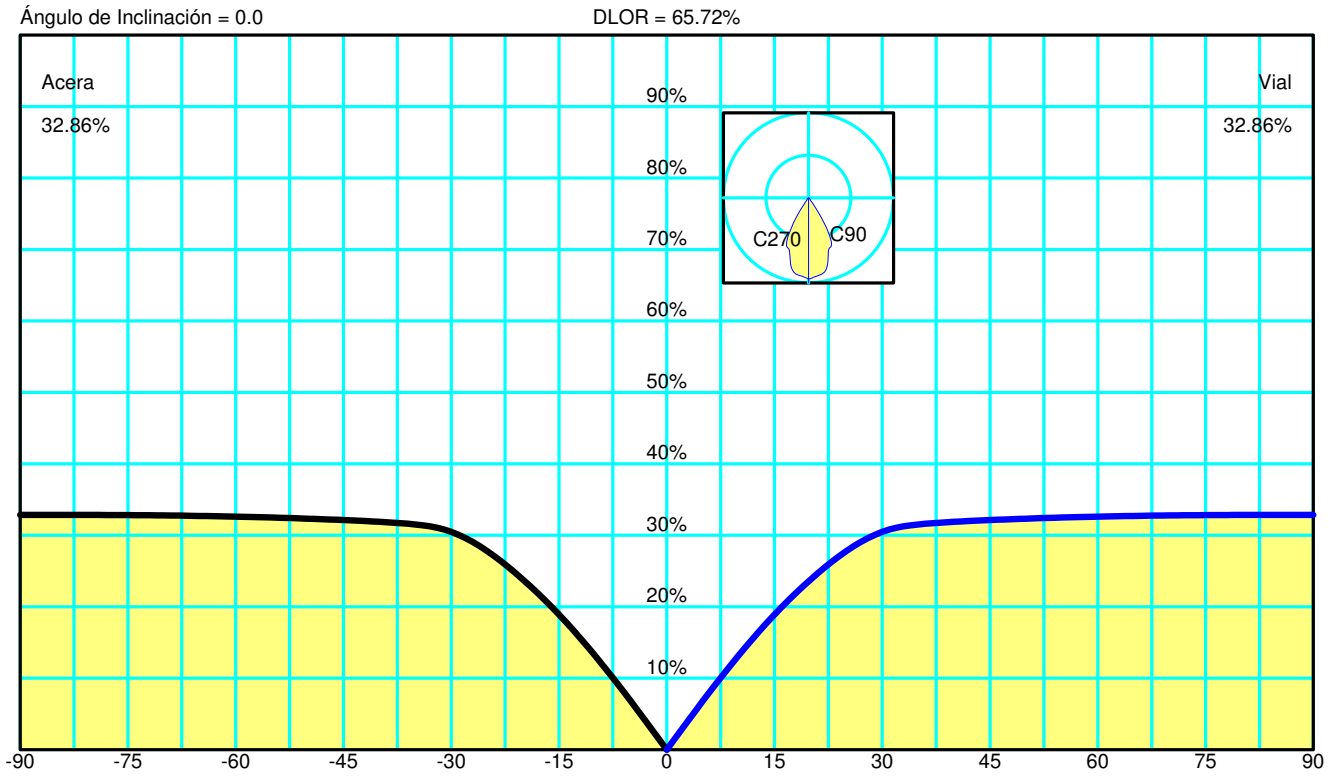


Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	21.23	21.23	3.23 %	3.23 %
10°	62.38	83.61	9.49 %	12.72 %
15°	94.85	178.45	14.43 %	27.15 %
20°	109.23	287.68	16.62 %	43.77 %
25°	125.78	413.46	19.14 %	62.91 %
30°	126.06	539.51	19.18 %	82.10 %
35°	64.97	604.49	9.89 %	91.98 %
40°	16.32	620.81	2.48 %	94.47 %
45°	8.35	629.16	1.27 %	95.74 %
50°	6.82	635.99	1.04 %	96.77 %
55°	6.01	642.00	0.91 %	97.69 %
60°	4.65	646.65	0.71 %	98.40 %
65°	3.88	650.53	0.59 %	98.99 %
70°	3.08	653.61	0.47 %	99.46 %
75°	1.97	655.57	0.30 %	99.76 %
80°	1.12	656.69	0.17 %	99.92 %
85°	0.43	657.12	0.07 %	99.99 %
90°	0.06	657.18	0.01 %	100.00 %
95°	0.00	657.18	0.00 %	100.00 %
100°	0.00	657.18	0.00 %	100.00 %
105°	0.00	657.18	0.00 %	100.00 %
110°	0.00	657.18	0.00 %	100.00 %
115°	0.00	657.18	0.00 %	100.00 %
120°	0.00	657.18	0.00 %	100.00 %
125°	0.00	657.18	0.00 %	100.00 %
130°	0.00	657.18	0.00 %	100.00 %
135°	0.00	657.18	0.00 %	100.00 %
140°	0.00	657.18	0.00 %	100.00 %
145°	0.00	657.18	0.00 %	100.00 %
150°	0.00	657.18	0.00 %	100.00 %
155°	0.00	657.18	0.00 %	100.00 %
160°	0.00	657.18	0.00 %	100.00 %
165°	0.00	657.18	0.00 %	100.00 %
170°	0.00	657.18	0.00 %	100.00 %
175°	0.00	657.18	0.00 %	100.00 %
180°	0.00	657.18	0.00 %	100.00 %

Luminaire
Code TC-1401-BLA
Name Downlight CARDAN 2x50W GU5.3
Measurem.
Code TC-1401-BLA
Name Downlight CARDAN 2x50W GU5.3

Luminaire Flux	1126.41 lm	Luminaire Power	50.00 W	Efficacy	22.53 lm/W	Efficiency	65.72%
Lamps Flux	1714.00 lm	Maximum value	1550.45 cd	Position	C=0.00 G=0.00	CG	Asymmetrical

Pavement			Road		
Piano	0	0.00%	Piano	0	0.00%
Piano	-5	6.78%	Piano	5	6.78%
Piano	-10	13.18%	Piano	10	13.18%
Piano	-15	18.90%	Piano	15	18.90%
Piano	-20	23.79%	Piano	20	23.79%
Piano	-25	27.80%	Piano	25	27.80%
Piano	-30	30.48%	Piano	30	30.48%
Piano	-35	31.52%	Piano	35	31.52%
Piano	-40	31.89%	Piano	40	31.89%
Piano	-45	32.13%	Piano	45	32.13%
Piano	-50	32.33%	Piano	50	32.33%
Piano	-55	32.49%	Piano	55	32.49%
Piano	-60	32.61%	Piano	60	32.61%
Piano	-65	32.71%	Piano	65	32.71%
Piano	-70	32.78%	Piano	70	32.78%
Piano	-75	32.82%	Piano	75	32.82%
Piano	-80	32.85%	Piano	80	32.85%
Piano	-85	32.86%	Piano	85	32.86%
Piano	-90	32.86%	Piano	90	32.86%



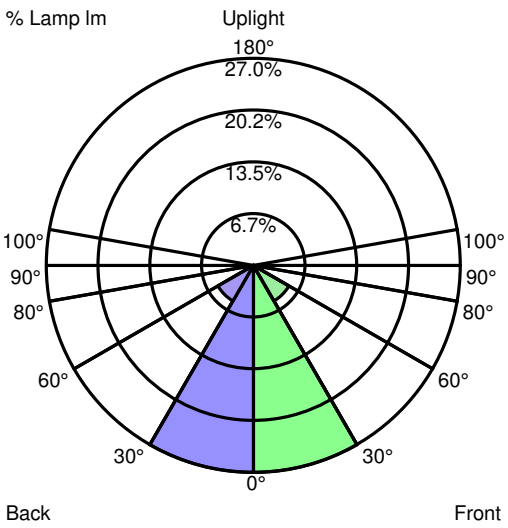
Spread	13.1° Estrecho	DLOR	65.71806 %
Throw	6.6° Corto	ULOR	0.00000 %
SLI (deslumbramiento)	9.4 Concentrado	Rendimiento	65.71806 %
Cutoff CIE	Cutoff - Max: C=0.0° Gamma=0.0°	RN	0.00000 %
Cutoff Iesna	Full Cutoff	Clase de Intensidad Luminosa	G6
DIN5044	KB1	Índice de Deslumbramiento	D6

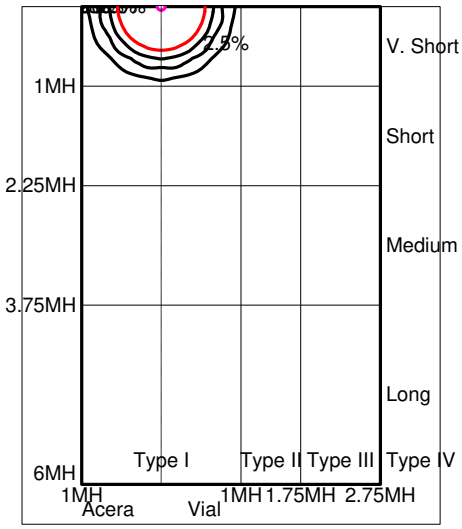
IESNA Type VS Very Short Quadrilateral Symmetry

Luminaire
Code TC-1401-BLA
Name Downlight CARDAN 2x50W GU5.3
Measurem.
Code TC-1401-BLA
Name Downlight CARDAN 2x50W GU5.3

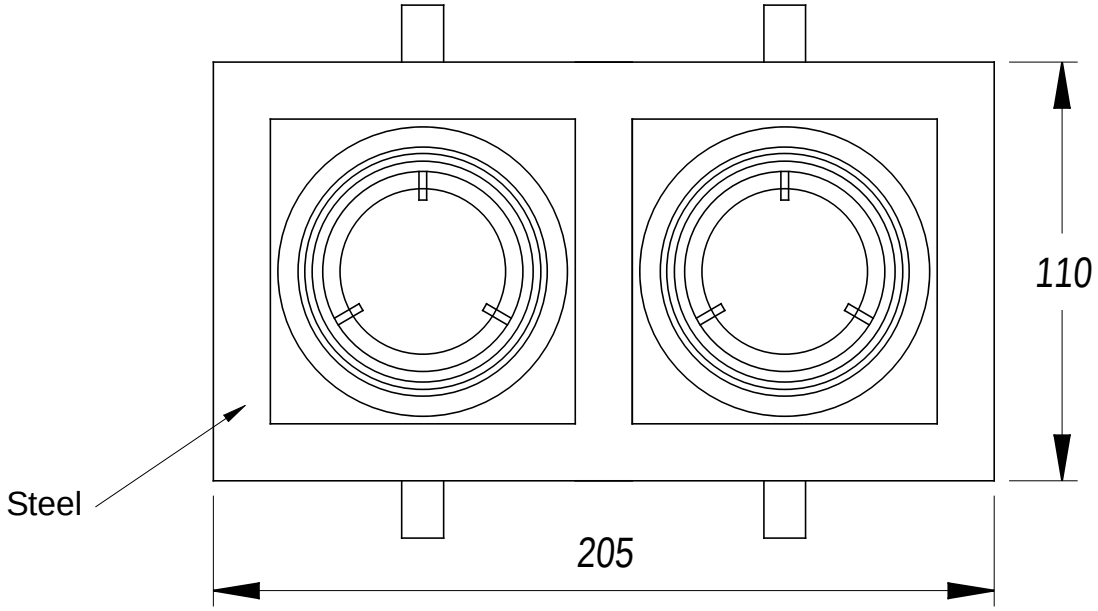
Luminaire Flux	1126.41 lm	Luminaire Power	50.00 W	Efficacy	22.53 lm/W	Efficiency	65.72%
Lamps Flux	1714.00 lm	Maximum value	1550.45 cd	Position	C=0.00 G=0.00	CG	Asymmetrical

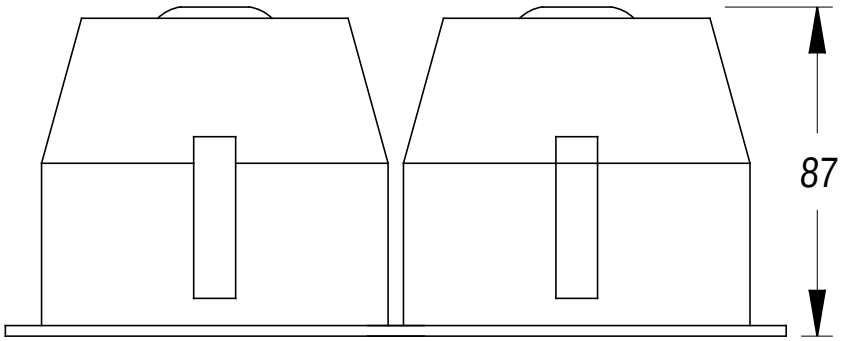
US ROAD STANDARDS

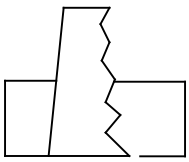




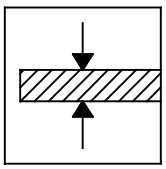
Luminaire Classification System (LCS)				
LCS Zone		Lumens	%Lamp	%Lum
FL	0° -- 30°	462.5 lm	27.0 %	41.1 %
FM	30° -- 60°	91.7 lm	5.3 %	8.1 %
FH	60° -- 80°	8.6 lm	0.5 %	0.8 %
FVH	80° -- 90°	0.4 lm	0.0 %	0.0 %
BL	0° -- 30°	462.5 lm	27.0 %	41.1 %
BM	30° -- 60°	91.7 lm	5.3 %	8.1 %
BH	60° -- 80°	8.6 lm	0.5 %	0.8 %
BVH	80° -- 90°	0.4 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		1126.4 lm	65.7 %	100.0 %
BUG B1 U0 G0 Type VS Very Short Quadrilateral Symmetry				







190x100



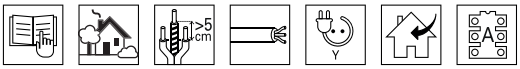
0-20mm

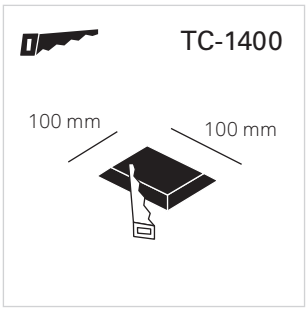
Scale 1:2

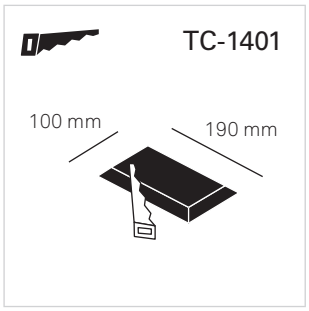
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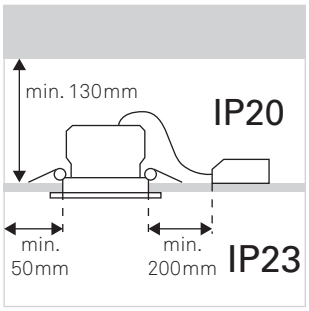
Cardan

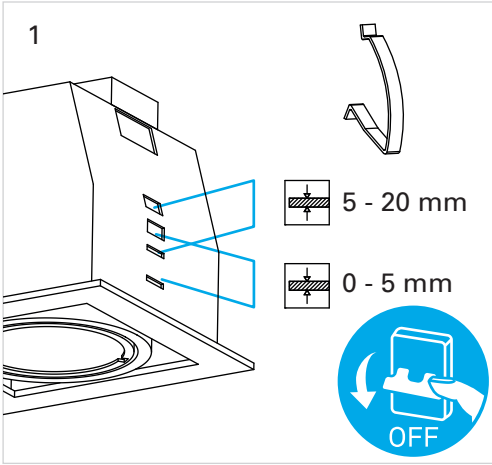
TC-1400 TC-1401

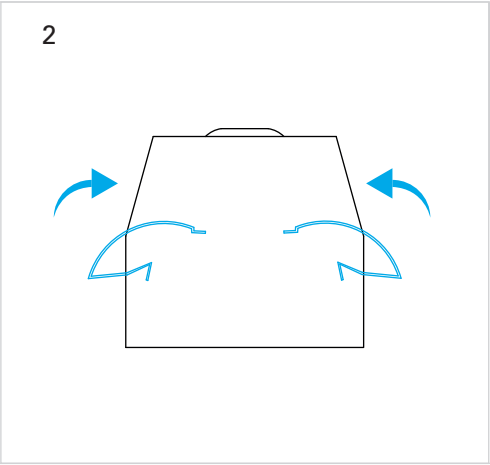


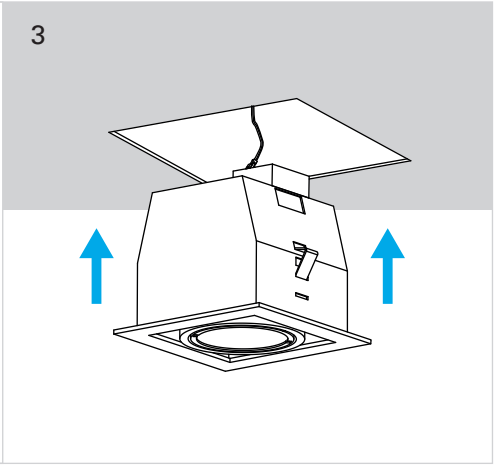


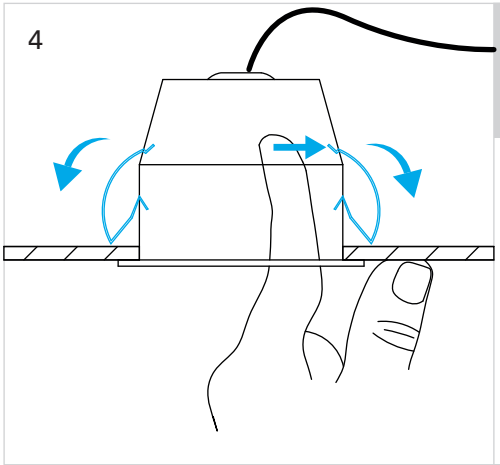


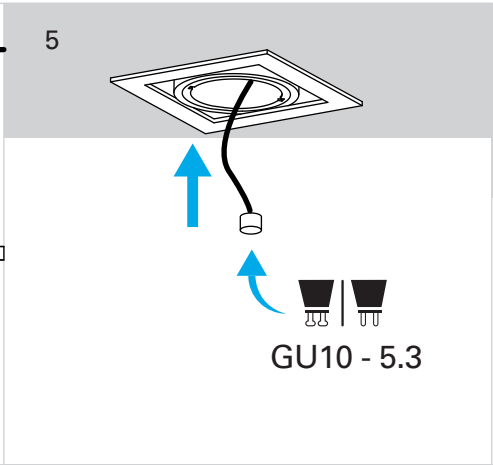


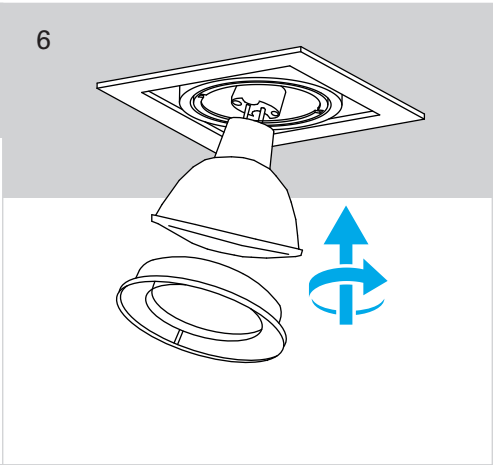


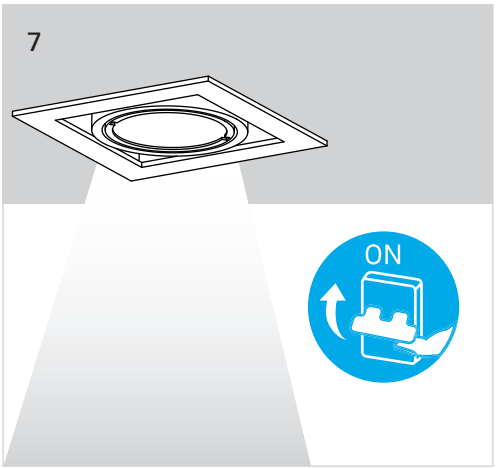












06-09-2021