

35-5401-14-DU

V0

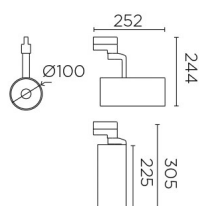






BOND TUBE MEDIUM Spotlight

Description

Spotlight BOND TUBE MEDIUM 25.9W 3000K CRI 80 DALI White 2083lm

	Finish	Material
Structure	White	Aluminium
Diffuser	Transparent	Glass



 IP20
  355°
  ±90°
  8

TECHNICAL CHARACTERISTICS

Light source

Light source: LED CREE
 Light source power (W): 25.9W
 Luminaire total power (W): 26.7W
 Color temperature: LED warm-white
 3000K
 CRI: 80
 Photobiological risk: RG1
 Real Lumen: 2083
 Qty Leds: 1
 Lm/Real W: 78
 Life Time: 50.000h L80B20
 Bin / Grup: 30H
 MacAdam steps: 2
 UGR: 14.1

GEAR

Brand: HEP
 Gear included: Yes, electronic
 Voltage / Frequency:
 100-277VAC/50-60Hz
 Power Factor: 0.90
 Dimming protocol: DALI

Luminaire

Warranty: 2 Years

Logistics

EAN Code: 8435381447021
 Net Weight (Kg): 1.77
 Weight in Kg (packaged): 1.96
 Packing: 105 x 105 x 350
 Masterbox: 8

The photograph may not match the reference exactly. Please read the product description to identify the finish.

OPTIONAL ACCESSORIES



71-5633-14-00

Structure material: Aluminium
Dimensions: 96 x 0 x 25
Net Weight (Kg): 0.06



71-5657-60-00

Structure material: Aluminium
Dimensions: 88 x 0 x 2
Net Weight (Kg): 0.01

Luminaire

Code 35-5401
 Name Proyector BON TUBE MEDIUM 15°

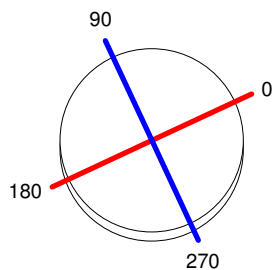
Measurment.

Code 35-5401
 Name Proyector BON TUBE MEDIUM 15°

Luminaire Flux	2082.62 lm	Luminaire Power	25.90 W	Efficacy	80.41 lm/W	Efficiency	100.00%
Lamps Flux	2082.62 lm	Maximum value	12813.49 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical
Round Luminaire Round Luminous Area		Diam. Diam.	100 mm 100 mm	Height Height	225 mm 0 mm		
Horizontal Luminous Area Emitting area on Plane 0° Emitting area on Plane 90°		0.007854 m2 0.000000 m2 0.000000 m2		Emitting area on Plane 180° Emitting area on Plane 270° Glare area at 76°		0.000000 m2 0.000000 m2 0.001900 m2	
Coordinate system Date Measurement Distance		CG 09-02-2016 0.00		Symmetry Type Maximum Gamma Angle Measurement Flux		Double Symmetrical 90 2082.62 lm	
Operator Temperature Humidity Notes		Asselum T2 25.00 °C 60.00 %		Source voltage Source current Photocell			

Line	Code	Luminaire Lamps		Flux [lm]	Pow. [W]	Q.ty
		Name	Name			
	L3934 25.9W 80 3000K	L3934 25.9W 80 3000K - 25.9 W		2082.62	25.90	1
C.I.E. F UTE	99 100 100 100 100 --		D DIN 5040 B NBN	A60 BZ 1		

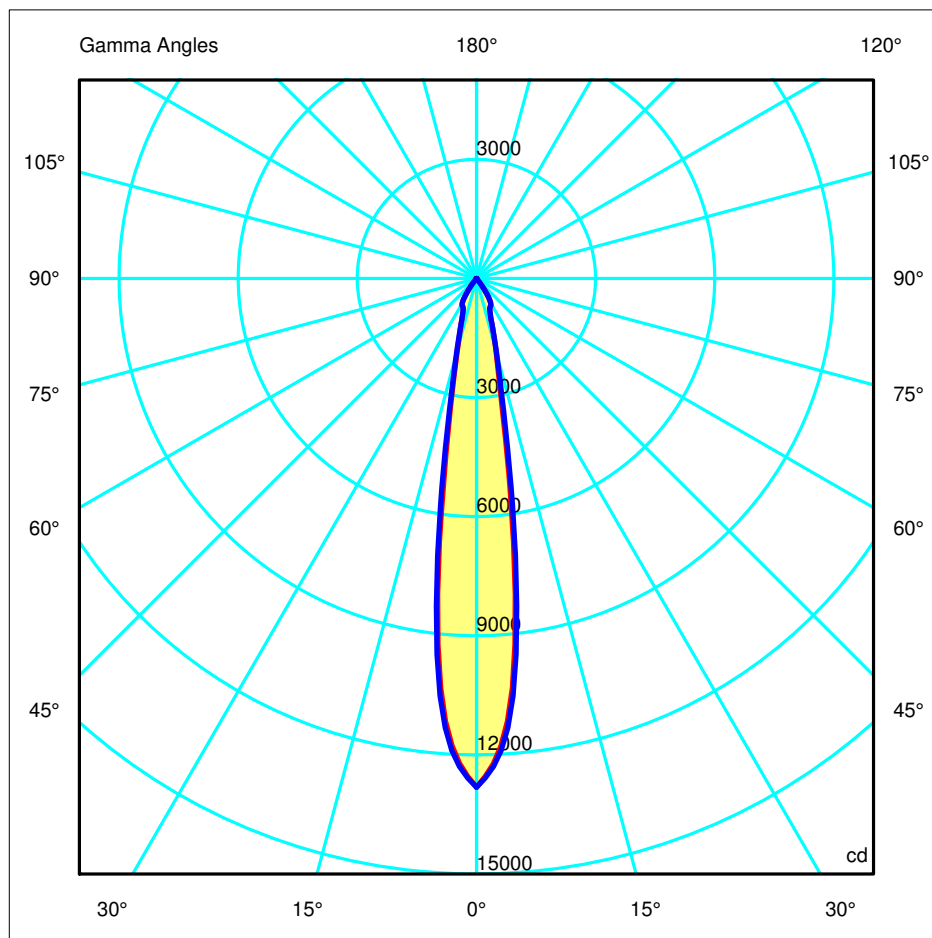
Diam=100mm



C Halfplanes

180.0 — 0.0
 270.0 — 90.0

ULOR 0.00 %
 DLOR 100.00 %
 RN 0.00 %



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Measur.

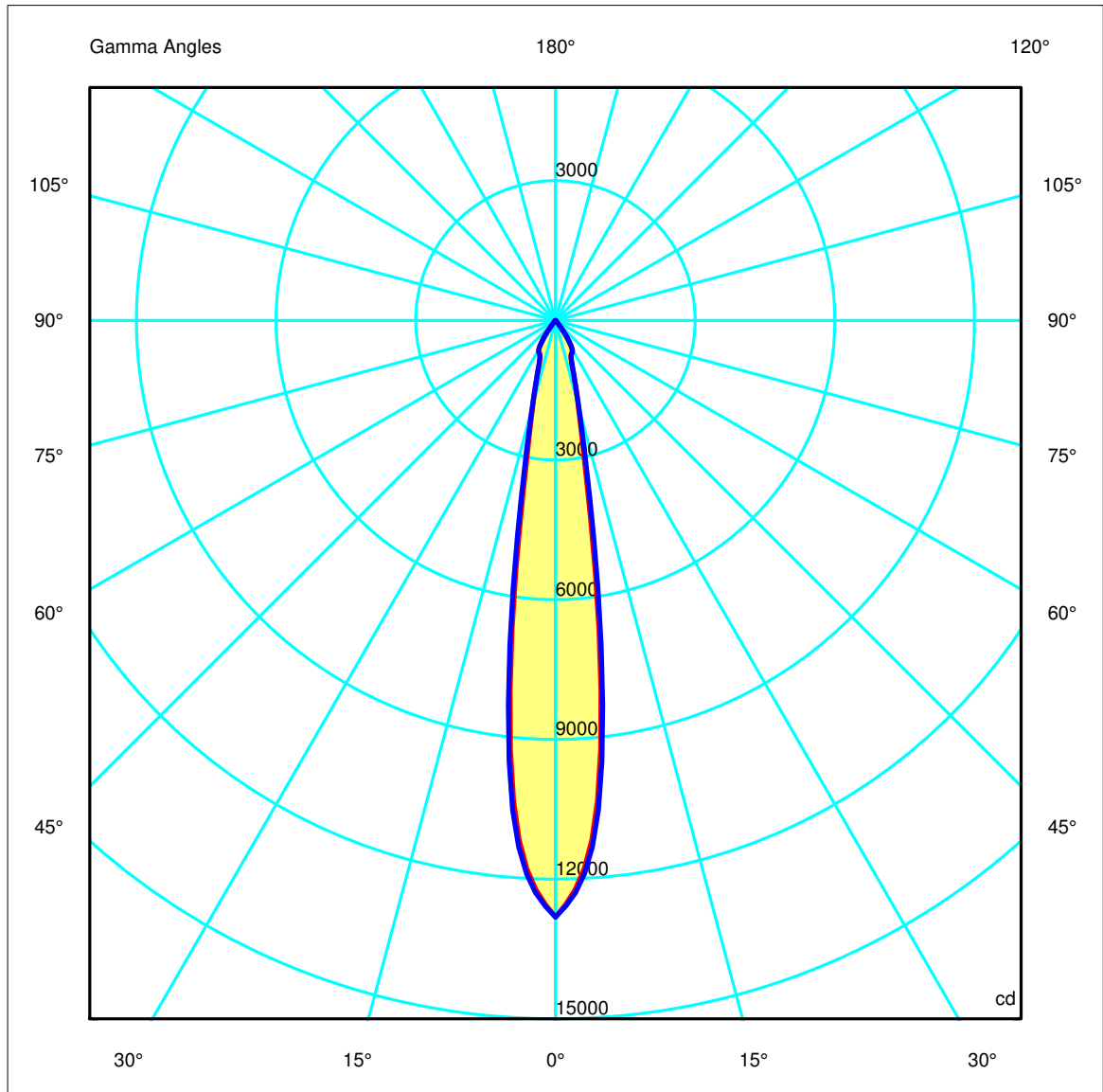
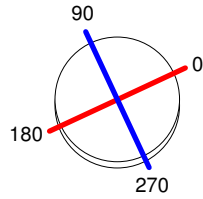
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C Halfplanes

180.0 ——— 0.0
 270.0 ——— 90.0



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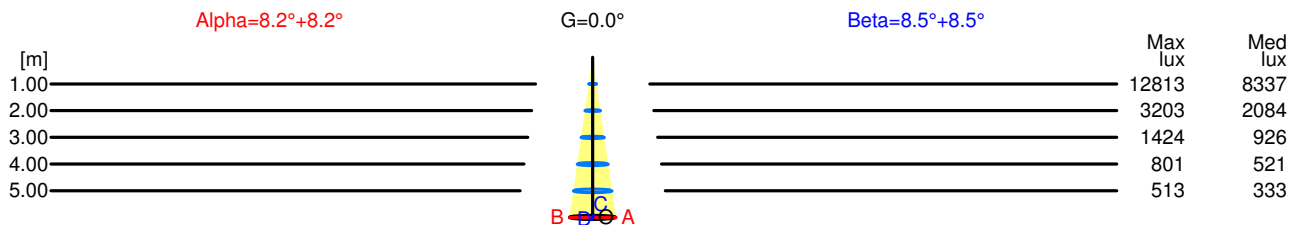
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Width at 50.00 % of Max Intensity

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	0.14	0.29	0.43	0.58	0.72	OC	0.15	0.30	0.45	0.60	0.75
OB	0.14	0.29	0.43	0.58	0.72	OD	0.15	0.30	0.45	0.60	0.75

	Luminous Intensities [cd]									
	0	5	15	25	35	45	55	65	75	85
OA	12813.49	10351.69	1896.74	799.55	380.53	15.18	7.68	2.20	0.84	0.21
OB	12813.49	10351.69	1896.74	799.55	380.53	15.18	7.68	2.20	0.84	0.21
OC	12813.49	10551.35	1943.58	805.07	364.04	14.47	7.48	2.68	0.78	0.21
OD	12813.49	10551.35	1943.58	805.07	364.04	14.47	7.48	2.68	0.78	0.21



H[m]	D[m]	Max lux	Med lux	Alpha=8.2°+8.2°	G=0.0
1.00	0.29	12813	8337		
2.00	0.58	3203	2084		
3.00	0.87	1424	926		
4.00	1.16	801	521		
5.00	1.45	513	333		

H[m]	D[m]	Max lux	Med lux	Beta=8.5°+8.5°	G=0.0
1.00	0.30	12813	8337		
2.00	0.60	3203	2084		
3.00	0.90	1424	926		
4.00	1.20	801	521		
5.00	1.50	513	333		

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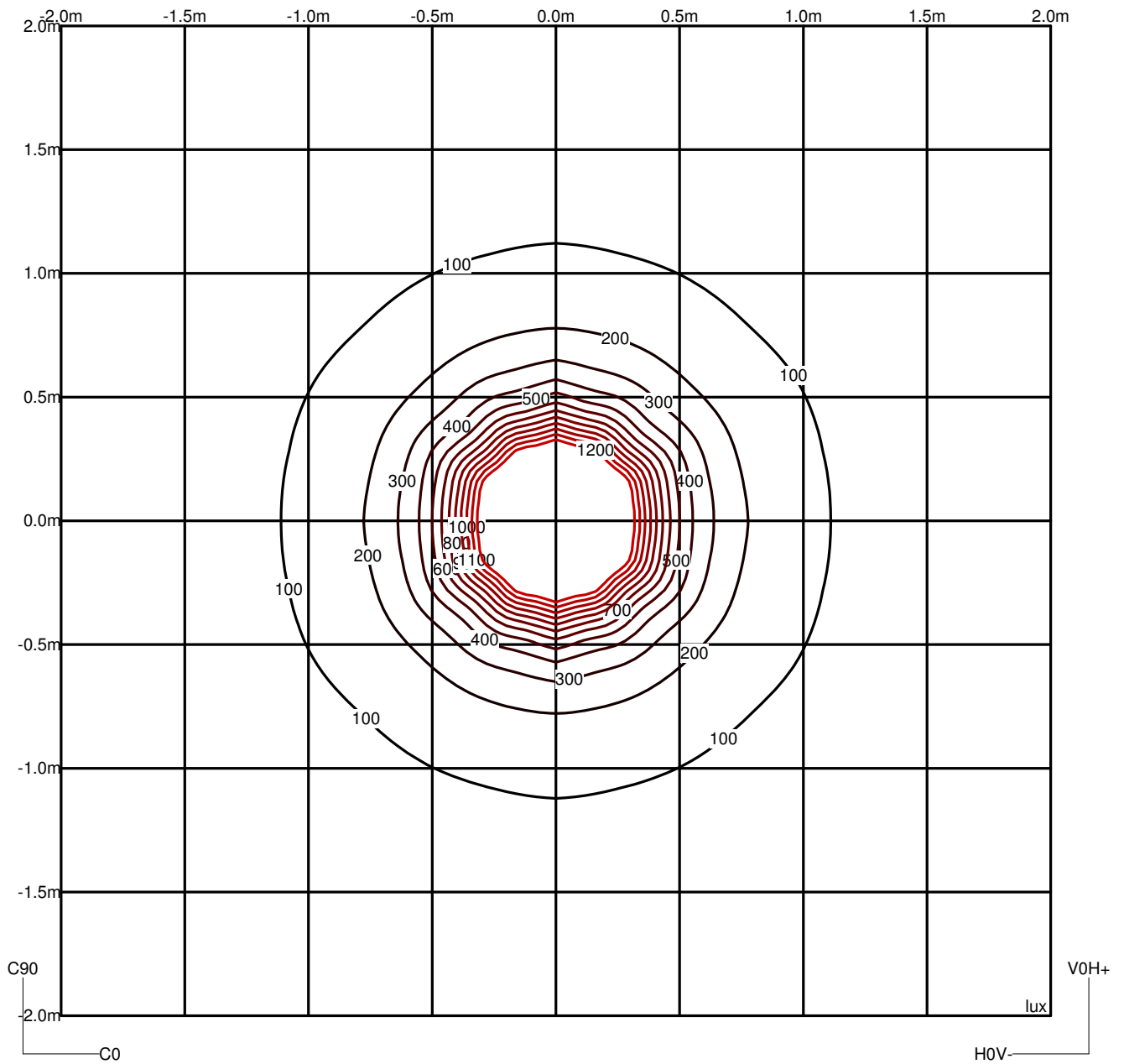
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Isolux (Floor)

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



Luminaire

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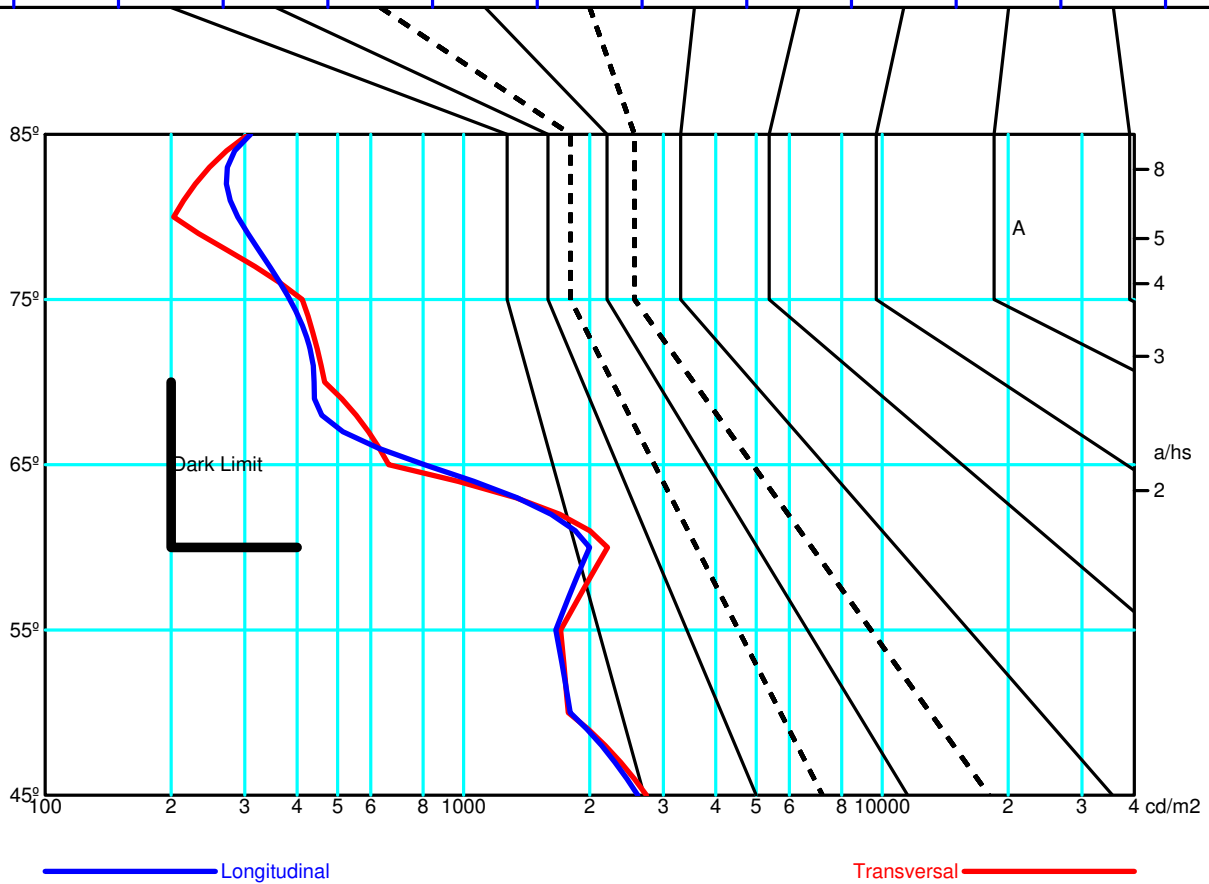
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		Average Luminance [cd/m ²]									
		45°	50°	55°	60°	65°	70°	75°	80°	85°	
0.0°	2734	1778	1705	2206	662	465	411	203	306	---	
90.0°	2605	1797	1660	1998	806	439	384	289	310	---	

Flush mounted or longitudinal view												
		Illumination(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

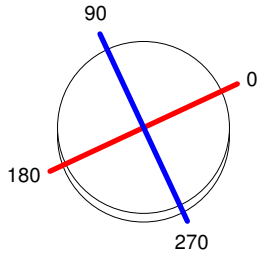
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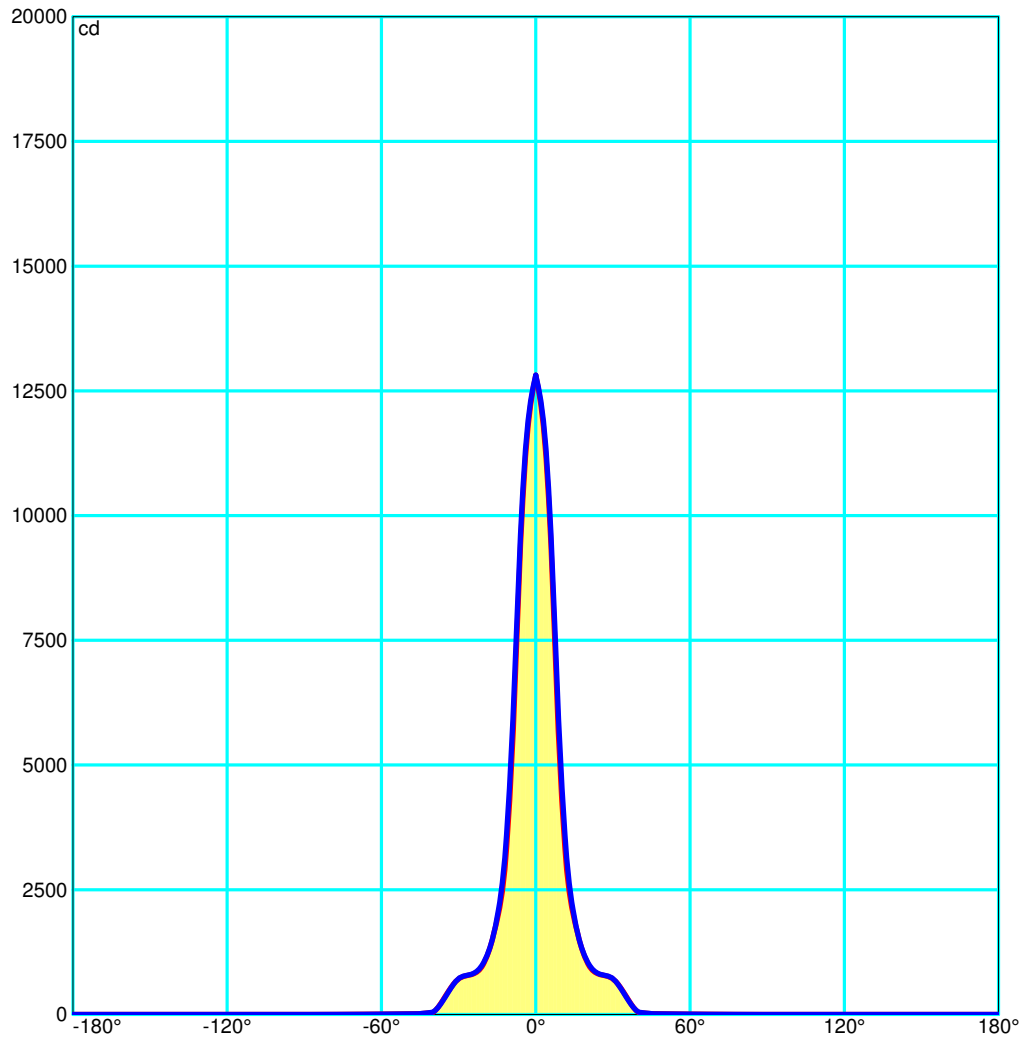
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Diam=100mm



C Halfplanes



Luminaire

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Lamps Flux	2082.62 lm	Maximum value	12813.49 cd	Position	C=0.00 G=0.00	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	14.9	15.5	15.1	15.7	15.8	14.8	15.4	15.0	15.6	15.8
x=2H y=3H	14.7	15.3	15.0	15.5	15.7	14.7	15.2	14.9	15.5	15.7
x=2H y=4H	14.7	15.2	15.0	15.5	15.6	14.6	15.1	14.9	15.4	15.6
x=2H y=6H	14.6	15.1	14.9	15.4	15.6	14.5	15.0	14.8	15.3	15.6
x=2H y=8H	14.6	15.0	14.9	15.3	15.5	14.5	15.0	14.8	15.3	15.5
x=2H y=12H	14.5	15.0	14.9	15.3	15.5	14.4	14.9	14.8	15.2	15.5
x=4H y=2H	14.7	15.2	15.0	15.5	15.6	14.6	15.1	14.9	15.4	15.6
x=4H y=3H	14.5	15.0	14.9	15.3	15.5	14.4	14.9	14.8	15.2	15.5
x=4H y=4H	14.5	14.9	14.8	15.2	15.4	14.4	14.8	14.7	15.1	15.4
x=4H y=6H	14.4	14.7	14.8	15.1	15.4	14.3	14.6	14.7	15.0	15.4
x=4H y=8H	14.3	14.6	14.8	15.0	15.3	14.3	14.5	14.7	14.9	15.3
x=4H y=12H	14.3	14.6	14.7	15.0	15.3	14.2	14.5	14.7	14.9	15.3
x=8H y=4H	14.3	14.6	14.8	15.0	15.3	14.3	14.5	14.7	14.9	15.3
x=8H y=6H	14.3	14.5	14.7	14.9	15.3	14.2	14.4	14.6	14.8	15.3
x=8H y=8H	14.2	14.4	14.7	14.8	15.2	14.1	14.3	14.6	14.8	15.2
x=8H y=12H	14.2	14.3	14.6	14.8	15.2	14.1	14.2	14.6	14.7	15.2
x=12H y=4H	14.3	14.6	14.7	15.0	15.3	14.2	14.5	14.7	14.9	15.3
x=12H y=6H	14.2	14.4	14.7	14.8	15.2	14.1	14.3	14.6	14.8	15.2
x=12H y=8H	14.2	14.3	14.6	14.8	15.2	14.1	14.2	14.6	14.7	15.2

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Total Flux=2082.62 Luminaire Flux=2082.62

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	0.74	0.78	0.83	0.86	0.88	0.93	0.96	0.98	0.99	1.00	1.02	1.02
RC	-	-	-	-	-	-	-	-	-	-	-	-

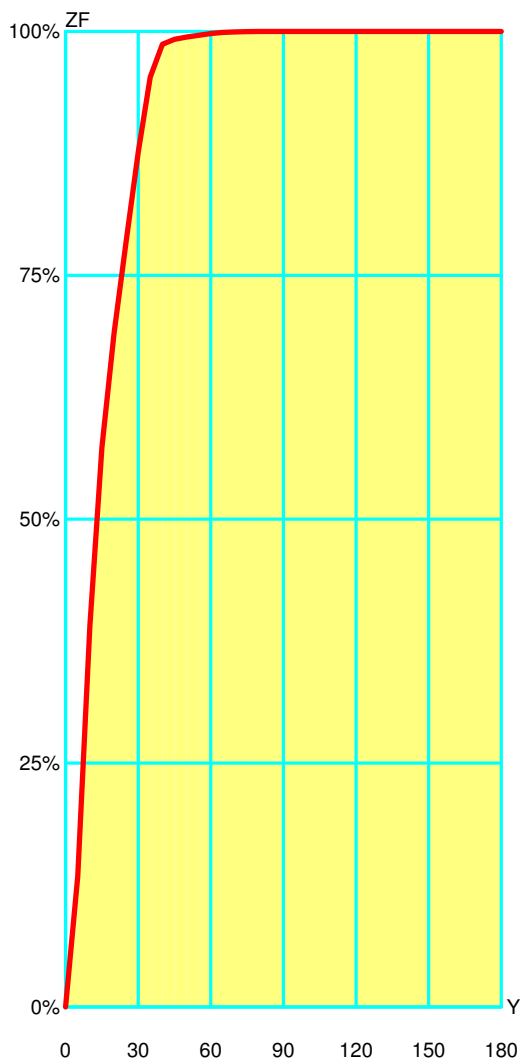
Zonal Flux per 1000 Lumen

Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	391	691	876	987	994	998	999	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

CIE Flux Codes

99 100 100 100 100

C.I.E.	-/-/-/-/-/-/-/-/-/-	LOR	99.99990 %
D DIN 5040	A60	ULOR	0.00000 %
F UTE	--	DLOR	99.99990 %
B NBN	BZ 1	UFF	0.00000 %
RN	0.00000 %	DFF	100.00000 %
BLF	1.0	FFR	0.00000 %



Gamma °	Zonal Flux			
	Flux	Sum lm	Flux [%]	Sum [%]
0°	0.00	0.00	0.00%	0.00 %
5°	133.70	133.70	13.37 %	13.37 %
10°	257.25	390.95	25.73 %	39.10 %
15°	182.48	573.44	18.25 %	57.34 %
20°	117.34	690.78	11.73 %	69.08 %
25°	93.51	784.29	9.35 %	78.43 %
30°	91.94	876.23	9.19 %	87.62 %
35°	77.03	953.26	7.70 %	95.33 %
40°	33.58	986.84	3.36 %	98.68 %
45°	5.09	991.93	0.51 %	99.19 %
50°	2.32	994.24	0.23 %	99.42 %
55°	1.74	995.99	0.17 %	99.60 %
60°	1.78	997.76	0.18 %	99.78 %
65°	1.27	999.03	0.13 %	99.90 %
70°	0.45	999.48	0.04 %	99.95 %
75°	0.26	999.73	0.03 %	99.97 %
80°	0.15	999.88	0.01 %	99.99 %
85°	0.07	999.95	0.01 %	100.00 %
90°	0.05	1000.00	0.00 %	100.00 %
95°	0.00	1000.00	0.00 %	100.00 %
100°	0.00	1000.00	0.00 %	100.00 %
105°	0.00	1000.00	0.00 %	100.00 %
110°	0.00	1000.00	0.00 %	100.00 %
115°	0.00	1000.00	0.00 %	100.00 %
120°	0.00	1000.00	0.00 %	100.00 %
125°	0.00	1000.00	0.00 %	100.00 %
130°	0.00	1000.00	0.00 %	100.00 %
135°	0.00	1000.00	0.00 %	100.00 %
140°	0.00	1000.00	0.00 %	100.00 %
145°	0.00	1000.00	0.00 %	100.00 %
150°	0.00	1000.00	0.00 %	100.00 %
155°	0.00	1000.00	0.00 %	100.00 %
160°	0.00	1000.00	0.00 %	100.00 %
165°	0.00	1000.00	0.00 %	100.00 %
170°	0.00	1000.00	0.00 %	100.00 %
175°	0.00	1000.00	0.00 %	100.00 %
180°	0.00	1000.00	0.00 %	100.00 %

Luminaire

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Measurerm.

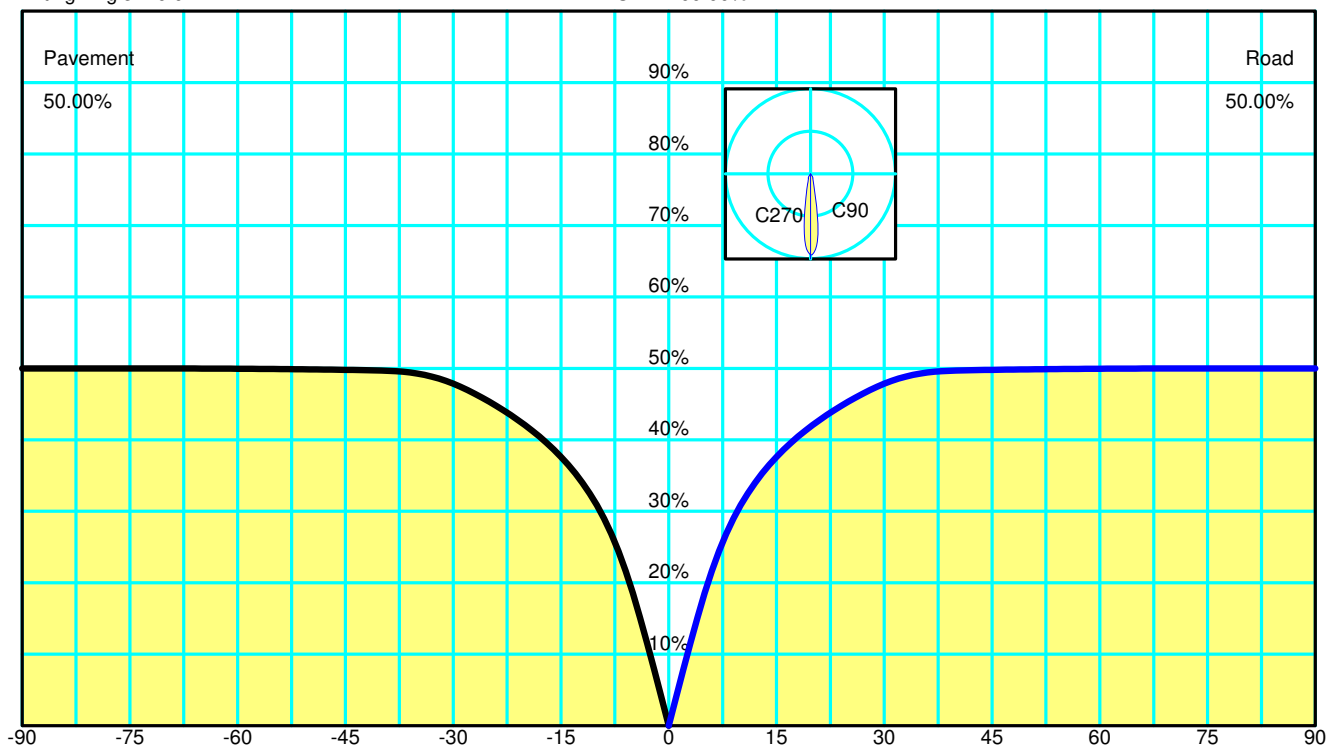
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Pavement			Road		
Piano	0	0.00%	Piano	0	0.00%
Piano	-5	18.54%	Piano	5	18.54%
Piano	-10	30.86%	Piano	10	30.86%
Piano	-15	37.61%	Piano	15	37.61%
Piano	-20	42.05%	Piano	20	42.05%
Piano	-25	45.35%	Piano	25	45.35%
Piano	-30	47.86%	Piano	30	47.86%
Piano	-35	49.28%	Piano	35	49.28%
Piano	-40	49.69%	Piano	40	49.69%
Piano	-45	49.80%	Piano	45	49.80%
Piano	-50	49.86%	Piano	50	49.86%
Piano	-55	49.91%	Piano	55	49.91%
Piano	-60	49.95%	Piano	60	49.95%
Piano	-65	49.98%	Piano	65	49.98%
Piano	-70	49.99%	Piano	70	49.99%
Piano	-75	49.99%	Piano	75	49.99%
Piano	-80	50.00%	Piano	80	50.00%
Piano	-85	50.00%	Piano	85	50.00%
Piano	-90	50.00%	Piano	90	50.00%

Tilting Angle = 0.0

DLOR = 100.00%



Spread	3.6° Narrow	DLOR	99.99990 %
Throw	1.8° Short	ULOR	0.00000 %
SLI (glare)	12.7 Tight	Efficiency	99.99990 %
CIE Cutoff	Cutoff - Max: C=0.0° Gamma=0.0°	RN	0.00000 %
lesna Cutoff	Cutoff	Luminous Intensity Class	G5
DIN5044	KB1	Glare Index	D6

IESNA Type I Very Short Asymmetrical

Luminaire

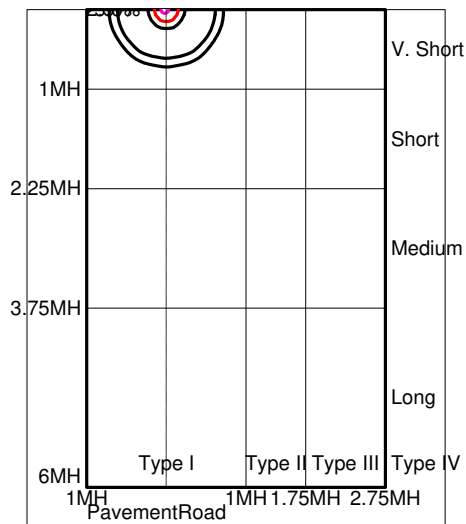
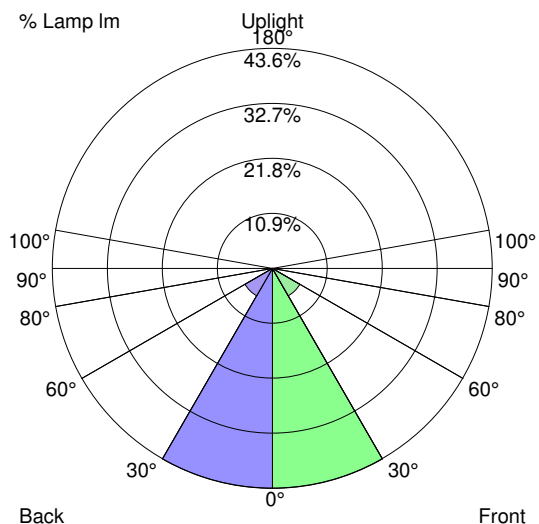
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US ROAD STANDARDS



Luminaire Classification System (LCS)				
LCS Zone		Lumens	%Lamp	%Lum
FL	0° -- 30°	908.2 lm	43.6 %	43.6 %
FM	30° -- 60°	130.8 lm	6.3 %	6.3 %
FH	60° -- 80°	2.3 lm	0.1 %	0.1 %
FVH	80° -- 90°	0.1 lm	0.0 %	0.0 %
BL	0° -- 30°	908.2 lm	43.6 %	43.6 %
BM	30° -- 60°	130.8 lm	6.3 %	6.3 %
BH	60° -- 80°	2.3 lm	0.1 %	0.1 %
BVH	80° -- 90°	0.1 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		2082.6 lm	100.0 %	100.0 %
		BUG B2 U0 G0	Type I Very Short	Asymmetrical

