

**35-5416-14-DU**

V0

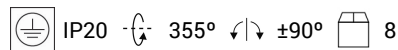
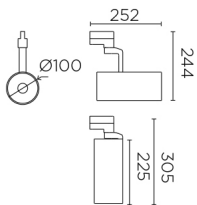


## BOND TUBE MEDIUM Spotlight

### Description

Spotlight BOND TUBE MEDIUM 25.9W 3000K CRI 90 DALI White 1576lm

	Finish	Material
Structure	White	Aluminium
Diffuser	Transparent	Glass



### 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: 90  
 Photobiological risk: RG1  
 Real Lumen: 1576  
 Qty Leds: 1  
 Lm/Real W: 59  
 Life Time: 50.000h L80B20  
 Bin / Grup: 30H  
 MacAdam steps: 2  
 UGR: 13.1

#### 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: 8435381447380  
 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

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**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 35-5416  
 Name Proyector BON TUBE MEDIUM 15°

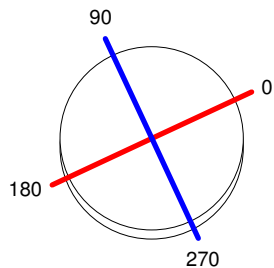
**Measurerm.**

Code 35-5416  
 Name Proyector BON TUBE MEDIUM 15°

Luminaire Flux	1575.56 lm	Luminaire Power	25.90 W	Efficacy	60.83 lm/W	Efficiency	100.00%
Lamps Flux	1575.56 lm	Maximum value	9693.76 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical
Round Luminaire Round Luminous Area		Diam.	100 mm	Height	225 mm		
		Diam.	100 mm	Height	0 mm		
Horizontal Luminous Area	0.007854 m2			Emitting area on Plane 180°	0.000000 m2		
Emitting area on Plane 0°	0.000000 m2			Emitting area on Plane 270°	0.000000 m2		
Emitting area on Plane 90°	0.000000 m2			Glare area at 76°	0.001900 m2		
Coordinate system	CG			Symmetry Type	Double Symmetrical		
Date	10-02-2016			Maximum Gamma Angle	90		
Measurement Distance	0.00			Measurement Flux	1575.56 lm		
Operator	Asselum T2			Source voltage			
Temperature	25.00 °C			Source current			
Humidity	60.00 %			Photocell			
Notes							

Line	Code	Luminaire Lamps		Flux [lm]	Pow. [W]	Q.ty
		Name				
	L3934 25.9W 90 3000K	L3934 25.9W 90 3000K - 25.90 W		1575.56	25.90	1
C.I.E.	99 100 100 100 100		D DIN 5040	A60		
F UTE	--		B NBN	BZ 1		

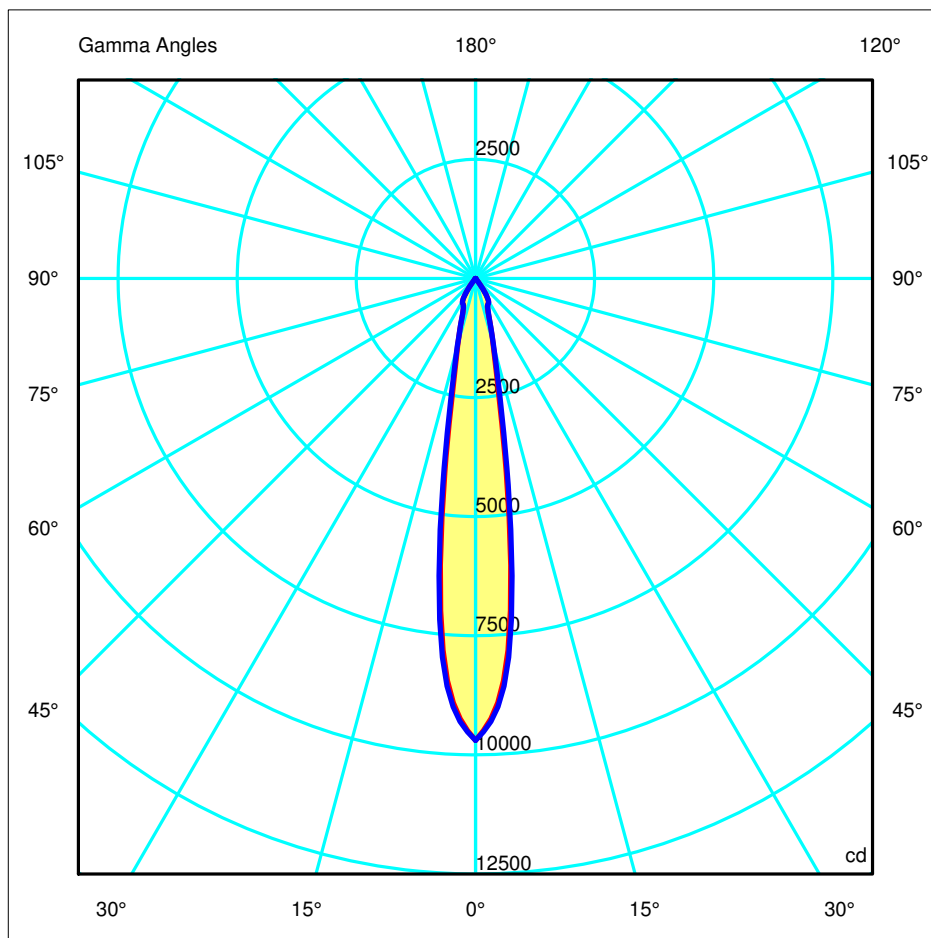
Diam=100mm



C Halfplanes

180.0 — 0.0  
 270.0 — 90.0

ULOR 0.00 %  
 DLOR 100.00 %  
 RN 0.00 %



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**Measur.**

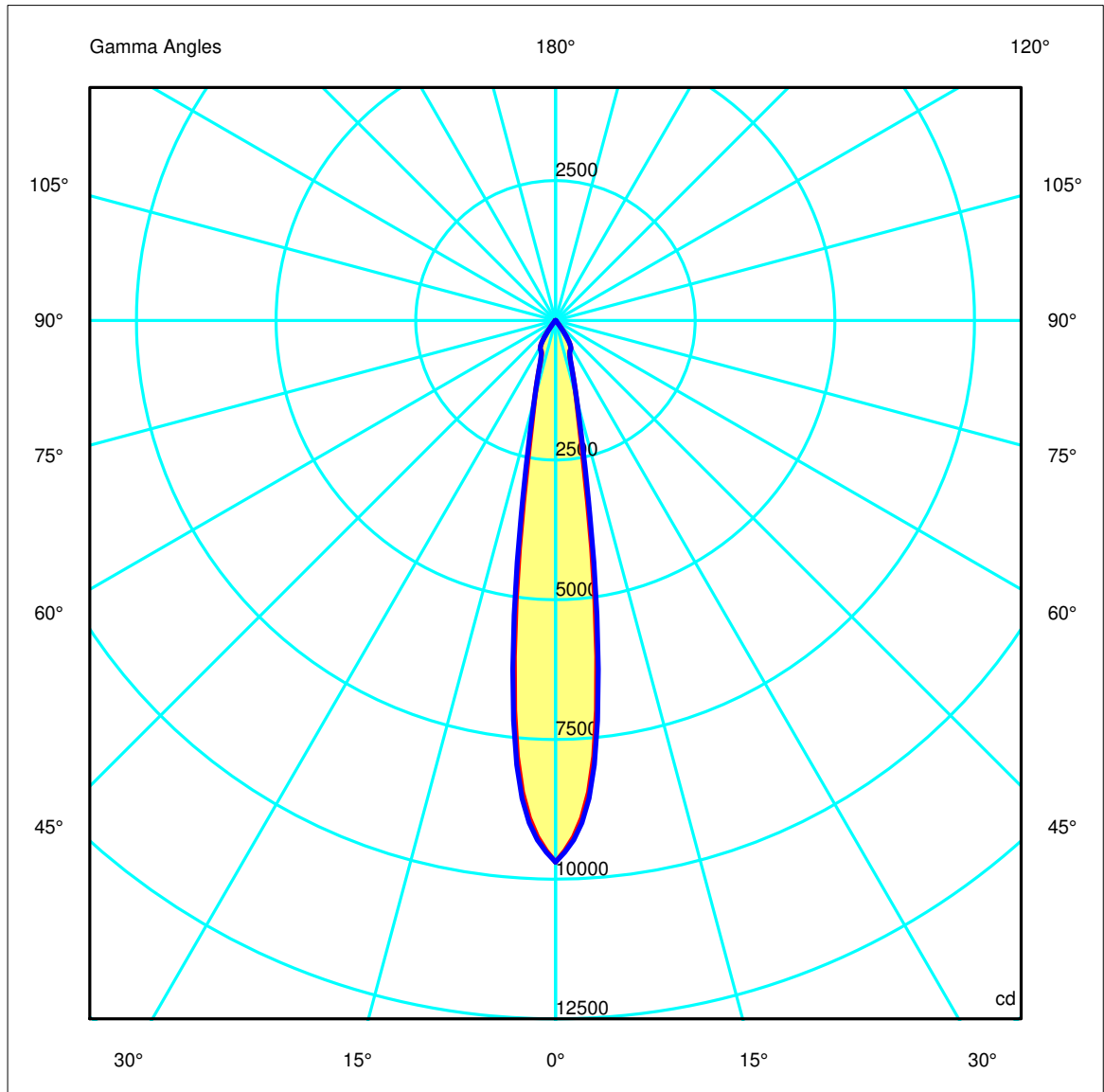
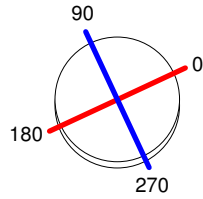
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C Halfplanes

180.0 ——— 0.0  
 270.0 ——— 90.0



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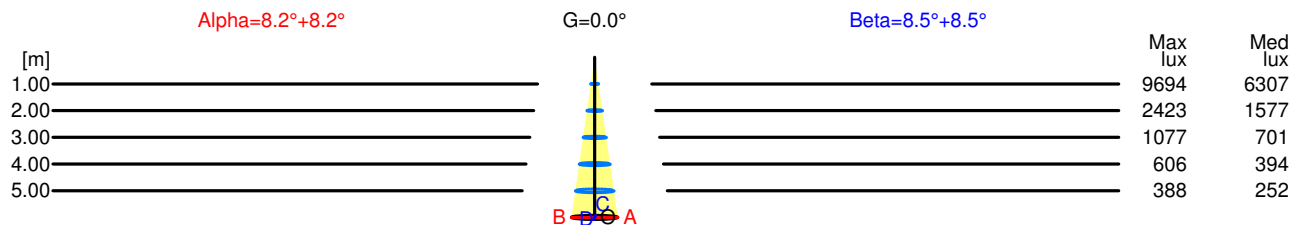
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## Width at 50.00 % of Max Intensity

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	9693.76	7831.34	1434.93	604.88	287.88	11.49	5.81	1.66	0.63	0.16
OB	9693.76	7831.34	1434.93	604.88	287.88	11.49	5.81	1.66	0.63	0.16
OC	9693.76	7982.39	1470.37	609.06	275.40	10.95	5.66	2.02	0.59	0.16
OD	9693.76	7982.39	1470.37	609.06	275.40	10.95	5.66	2.02	0.59	0.16



H[m]	D[m]	Max lux	Med lux	Alpha=8.2°+8.2°	G=0.0
1.00	0.29	9694	6307		
2.00	0.58	2423	1577		
3.00	0.87	1077	701		
4.00	1.16	606	394		
5.00	1.45	388	252		

H[m]	D[m]	Max lux	Med lux	Beta=8.5°+8.5°	G=0.0
1.00	0.30	9694	6307		
2.00	0.60	2423	1577		
3.00	0.90	1077	701		
4.00	1.20	606	394		
5.00	1.50	388	252		

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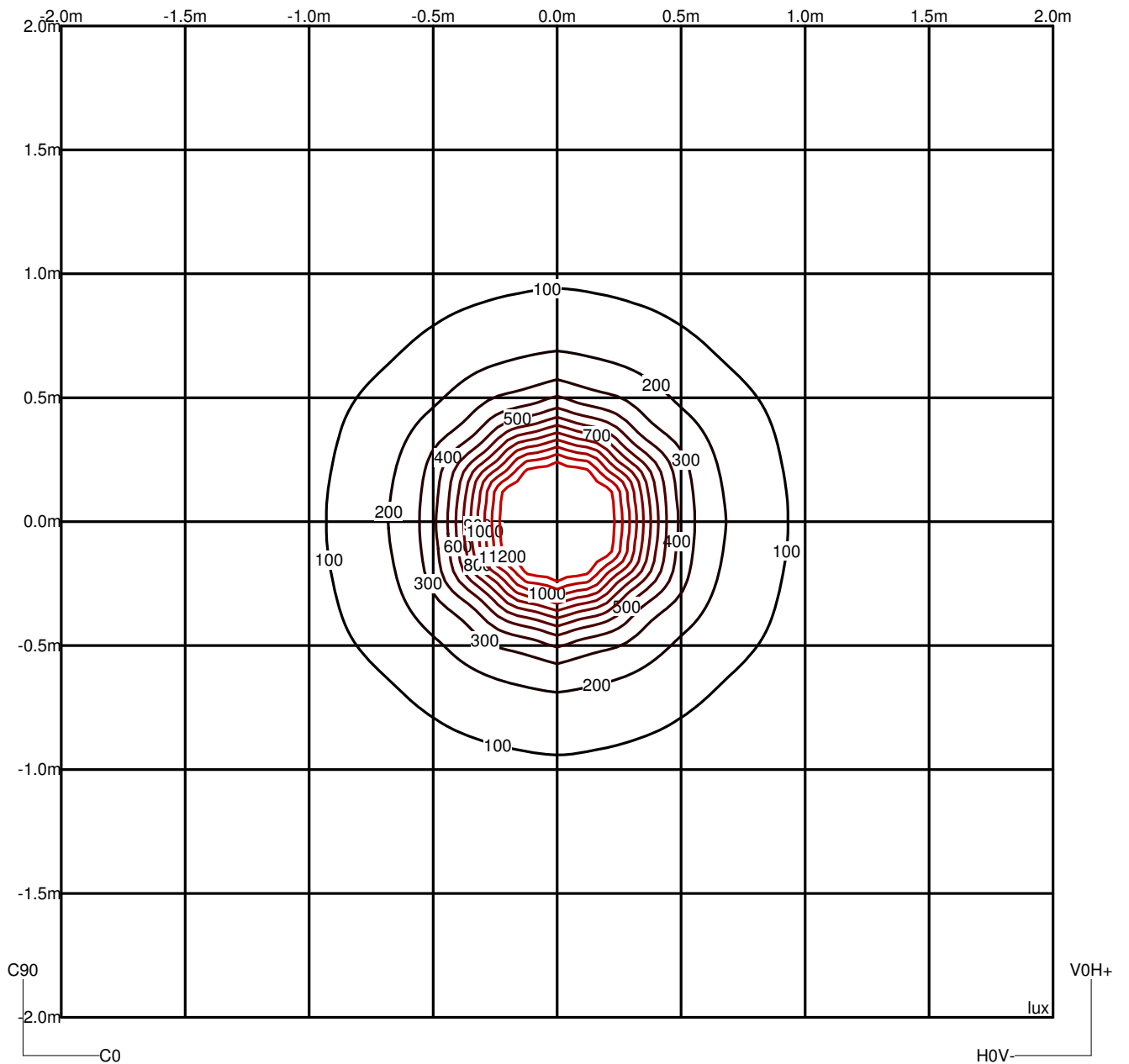
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Isolux (Floor)

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



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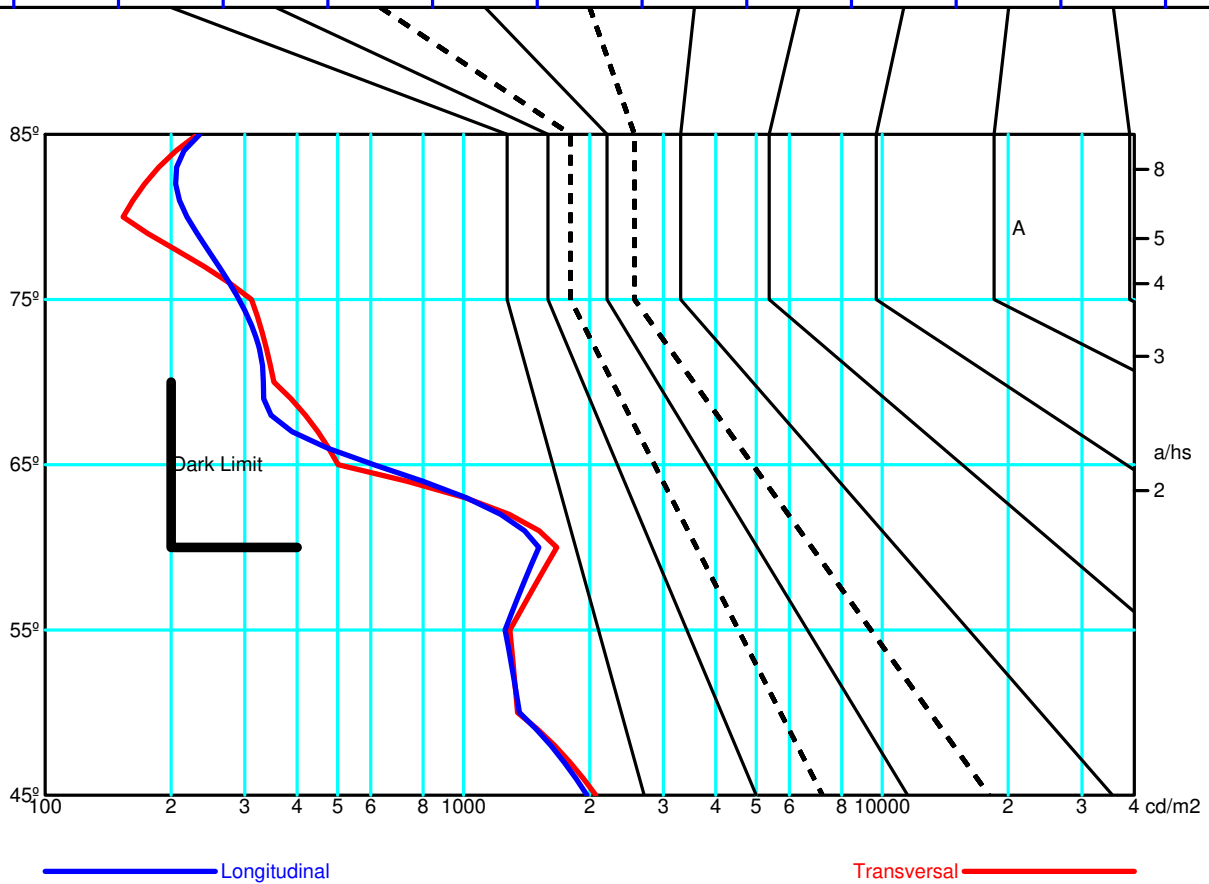
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		Average Luminance [cd/m <sup>2</sup> ]									
		45°	50°	55°	60°	65°	70°	75°	80°	85°	
0.0°	2068	1345	1290	1669	501	352	311	154	231	---	
90.0°	1971	1359	1256	1512	610	332	291	218	234	---	

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**

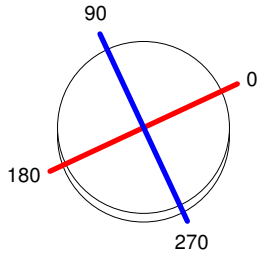
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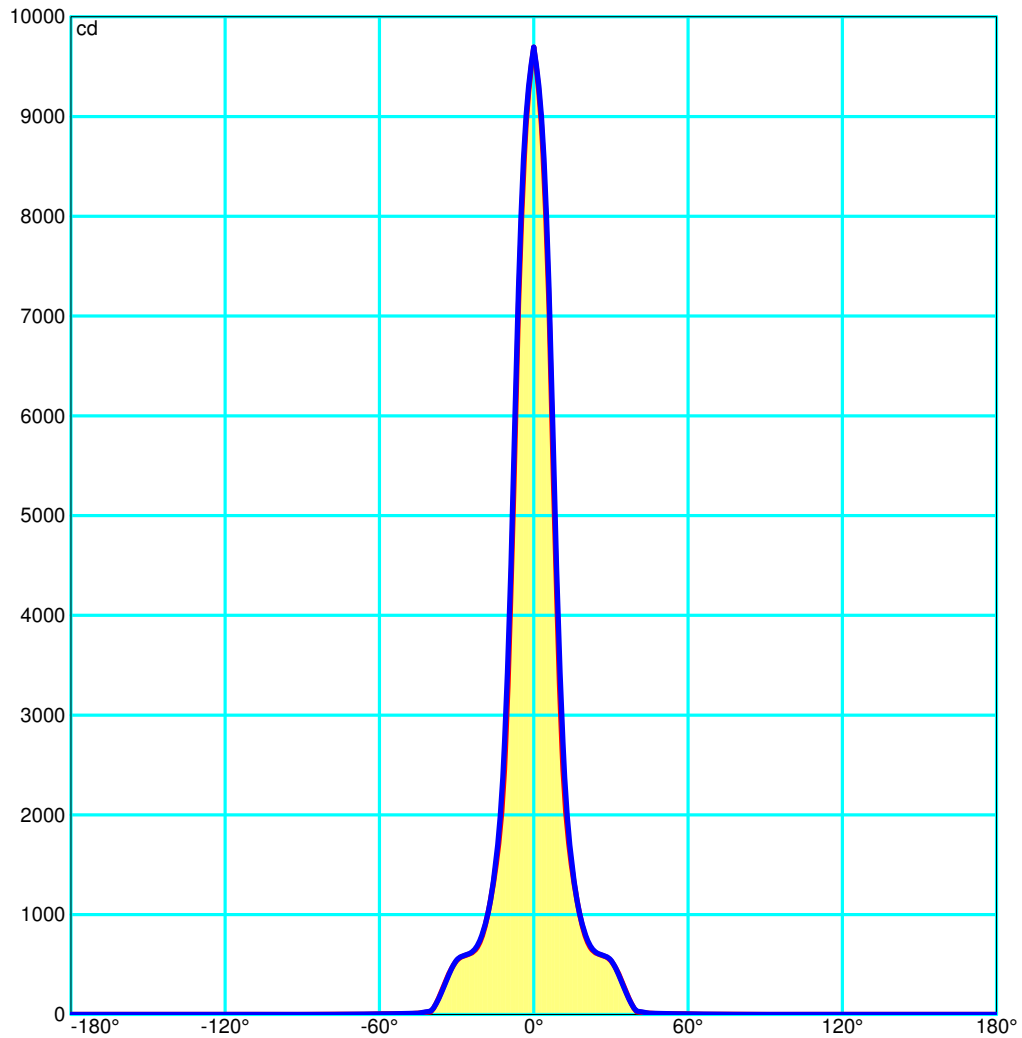
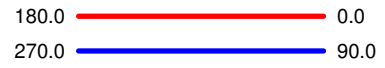
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Diam=100mm



C Halfplanes





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Lamps Flux	1575.56 lm	Maximum value	9693.76 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	13.9	14.5	14.1	14.7	14.8	13.8	14.4	14.1	14.6	14.8
x=2H y=3H	13.8	14.3	14.0	14.6	14.7	13.7	14.3	14.0	14.5	14.7
x=2H y=4H	13.7	14.2	14.0	14.5	14.7	13.6	14.2	13.9	14.4	14.7
x=2H y=6H	13.6	14.1	13.9	14.4	14.6	13.5	14.1	13.9	14.3	14.6
x=2H y=8H	13.6	14.1	13.9	14.4	14.6	13.5	14.0	13.8	14.3	14.6
x=2H y=12H	13.5	14.0	13.9	14.3	14.5	13.5	13.9	13.8	14.2	14.5
x=4H y=2H	13.7	14.2	14.0	14.5	14.7	13.6	14.2	13.9	14.4	14.7
x=4H y=3H	13.6	14.0	13.9	14.3	14.5	13.5	13.9	13.8	14.2	14.5
x=4H y=4H	13.5	13.9	13.9	14.2	14.5	13.4	13.8	13.8	14.1	14.5
x=4H y=6H	13.4	13.7	13.8	14.1	14.4	13.3	13.7	13.7	14.0	14.4
x=4H y=8H	13.4	13.7	13.8	14.0	14.4	13.3	13.6	13.7	14.0	14.4
x=4H y=12H	13.3	13.6	13.8	14.0	14.3	13.3	13.5	13.7	13.9	14.3
x=8H y=4H	13.4	13.7	13.8	14.0	14.4	13.3	13.6	13.7	14.0	14.4
x=8H y=6H	13.3	13.5	13.7	13.9	14.3	13.2	13.4	13.7	13.8	14.3
x=8H y=8H	13.2	13.4	13.7	13.9	14.2	13.2	13.3	13.6	13.8	14.2
x=8H y=12H	13.2	13.3	13.7	13.8	14.2	13.1	13.3	13.6	13.7	14.2
x=12H y=4H	13.3	13.6	13.8	14.0	14.3	13.3	13.5	13.7	13.9	14.3
x=12H y=6H	13.2	13.4	13.7	13.9	14.2	13.2	13.3	13.6	13.8	14.2
x=12H y=8H	13.2	13.3	13.7	13.8	14.2	13.1	13.3	13.6	13.7	14.2

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**Measurum.**

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Lamps Flux	1575.56 lm	Maximum value	9693.76 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Total Flux=1575.56 Luminaire Flux=1575.56

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	-	-	-	-	-	-	-	-	-	-	-	-

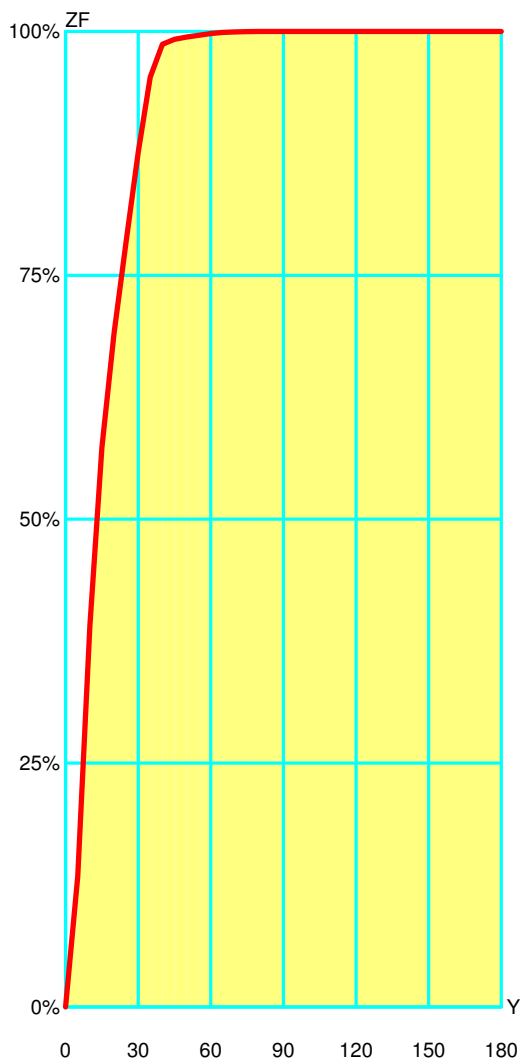
Zonal Flux per 1000 Lumen

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 %

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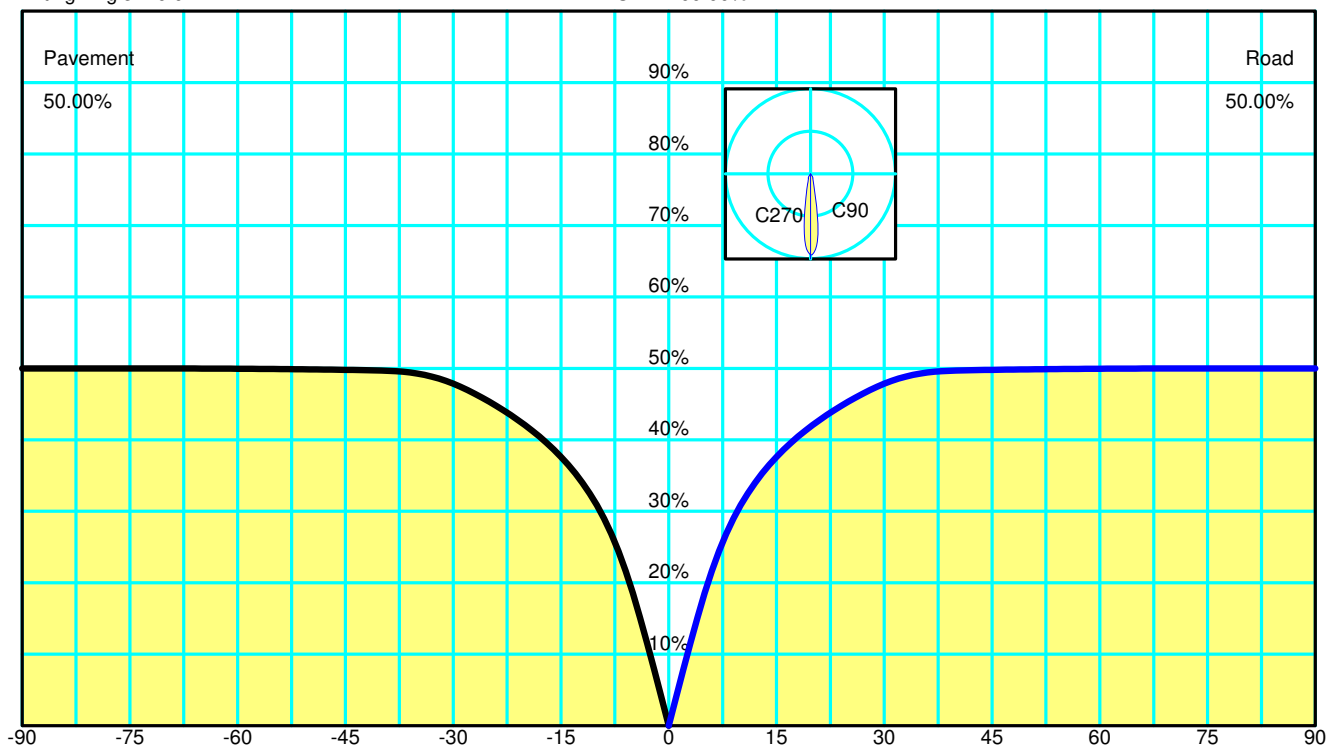
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Pavement			Road		
Piano	0	0.00%	Piano	0	0.00%
Piano	-5	18.54%	Piano	5	18.54%
Piano	-10	30.86%	Piano	10	30.86%
Piano	-15	37.61%	Piano	15	37.61%
Piano	-20	42.05%	Piano	20	42.05%
Piano	-25	45.35%	Piano	25	45.35%
Piano	-30	47.86%	Piano	30	47.86%
Piano	-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 %
Iesna Cutoff	Cutoff	Luminous Intensity Class	G5
DIN5044	KB1	Glare Index	D6
IESNA Type I Very Short Asymmetrical			

**Luminaire**

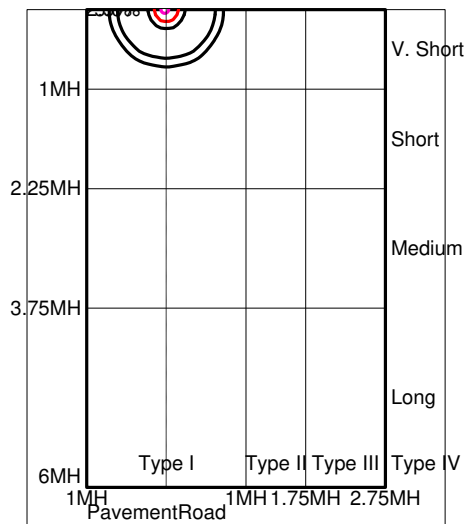
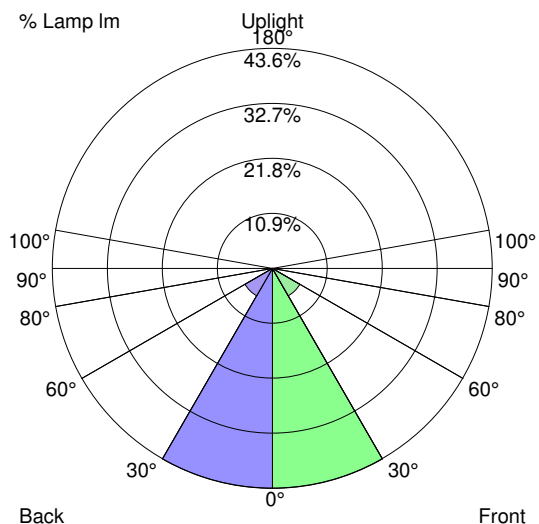
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## US ROAD STANDARDS



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 %
<b>TOTALS</b>		<b>2082.6 lm</b>	<b>100.0 %</b>	<b>100.0 %</b>
		BUG B2 U0 G0	Type I Very Short	Asymmetrical

