

**35-5415-60-OS**

V0

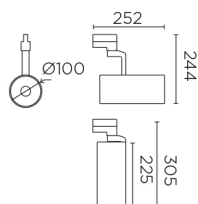
## BOND TUBE MEDIUM Spotlight






### Description

Spotlight BOND TUBE MEDIUM 25.9W 4000K CRI 80 Black 1931lm

	Finish	Material
Structure	Black	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 neutral-white 4000K  
 CRI: 80  
 Photobiological risk: RG1  
 Real Lumen: 1931  
 Qty Leds: 1  
 Lm/Real W: 72  
 Life Time: 50.000h L80B20  
 Bin / Grup: 40H  
 MacAdam steps: 2  
 UGR: 17.8

#### GEAR

Brand: TRIDONIC  
 Gear included: Yes, electronic  
 Voltage / Frequency:  
 220-240VAC/50-60Hz  
 Power Factor: 0.95

#### Luminaire

Warranty: 2 Years

#### Logistics

EAN Code: 8435381447366  
 Net Weight (Kg): 1.67  
 Weight in Kg (packaged): 1.85  
 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.

**Luminaire**

Code 35-5415  
 Name Proyector BOND TUBE MEDIUM 55° 25.9W

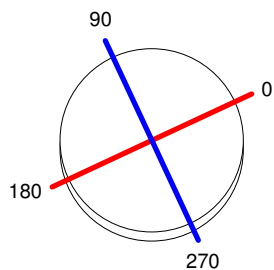
**Measurment.**

Code 35-5415  
 Name Proyector BOND TUBE MEDIUM 55° 25.9W

Luminaire Flux	1931.06 lm	Luminaire Power	25.90 W	Efficacy	74.56 lm/W	Efficiency	100.00%
Lamps Flux	1931.07 lm	Maximum value	2470.53 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 180°		0.000000 m2	
Emitting area on Plane 0°				Emitting area on Plane 270°		0.000000 m2	
Emitting area on Plane 90°				Glare area at 76°		0.001900 m2	
Coordinate system		CG		Symmetry Type		Double Symmetrical	
Date		09-02-2016		Maximum Gamma Angle		90	
Measurement Distance		0.00		Measurement Flux		1931.07 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				
	L3936 25.9W 80 3000K	Name	L3936 25.9W 80 3000K - 25.90 W	1931.07	25.90	1
C.I.E.	97 100 100 100 100		D DIN 5040	A60		
F UTE	--		B NBN	BZ 1		

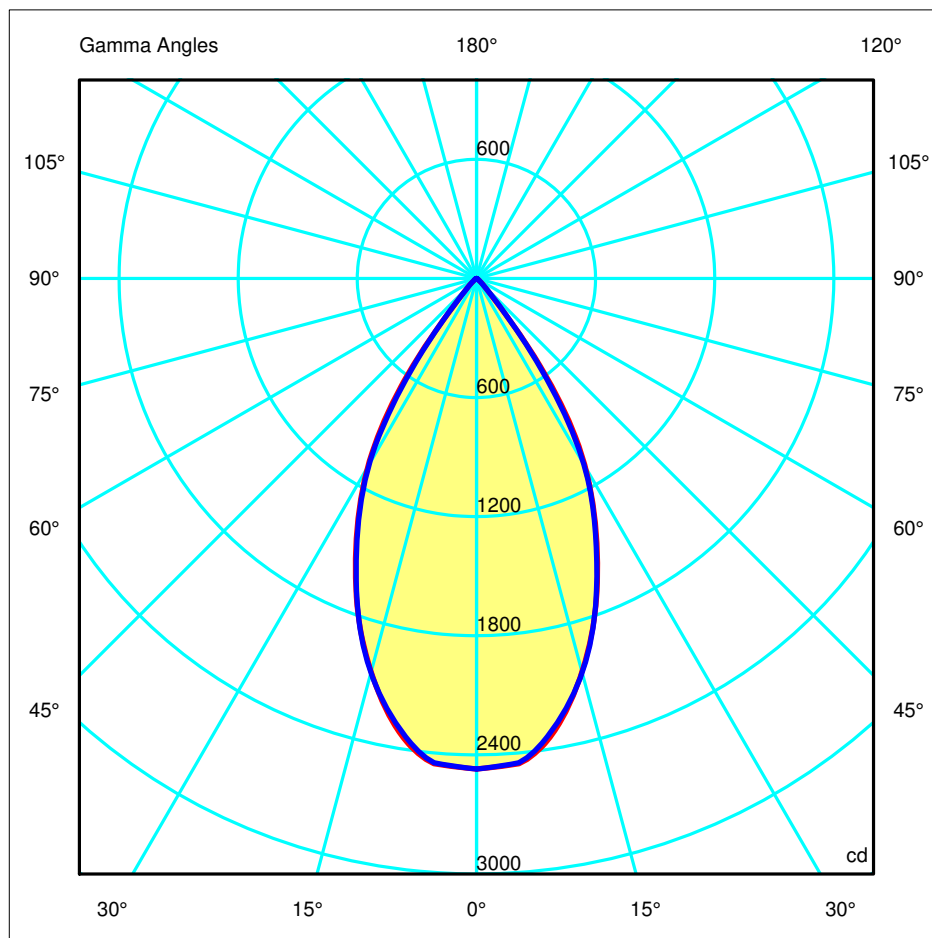
Diam=100mm



C Halfplanes

180.0 — 0.0  
 270.0 — 90.0

ULOR 0.00 %  
 DLOR 100.00 %  
 RN 0.00 %



**Luminaire**

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**Measur.**

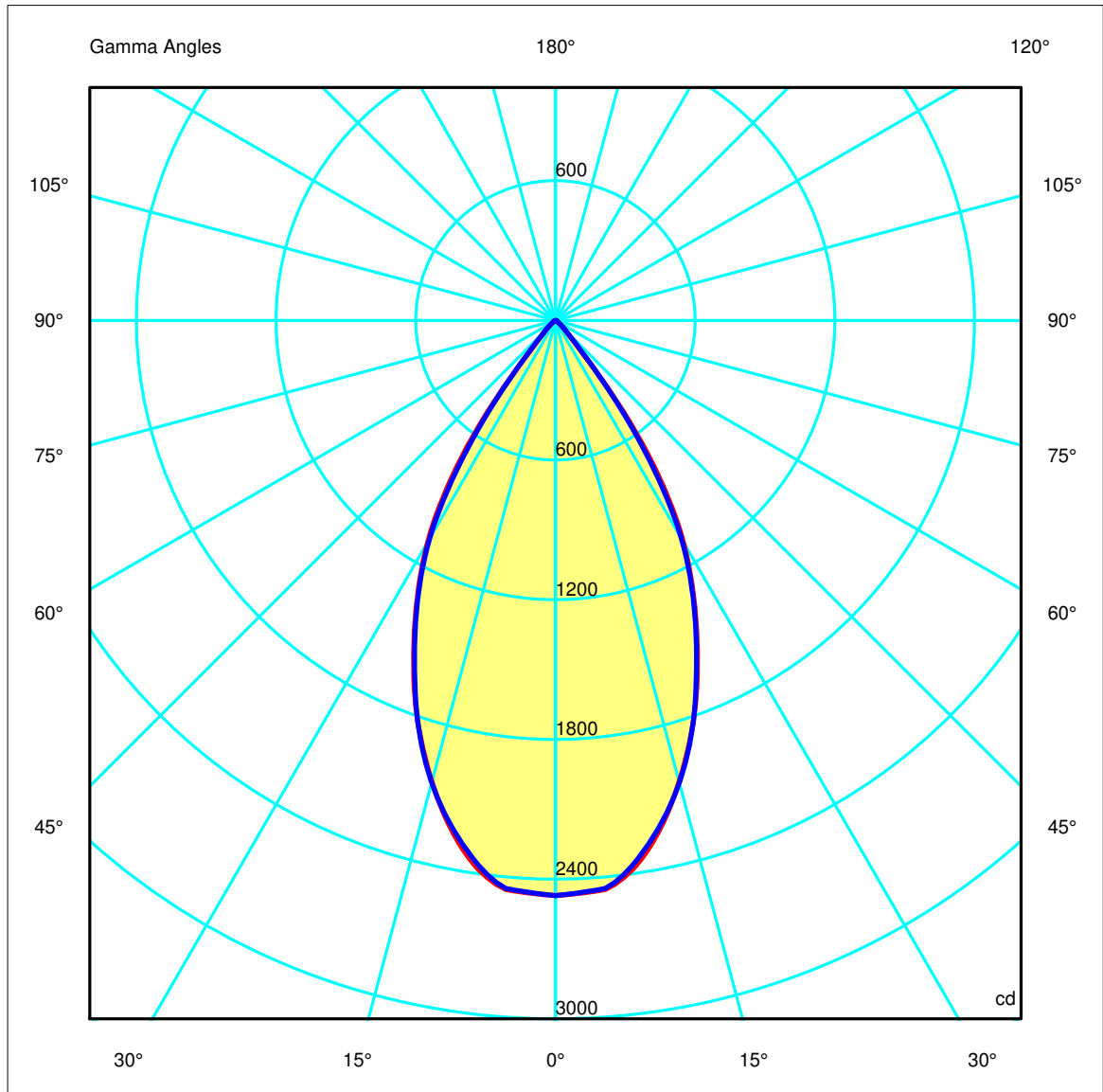
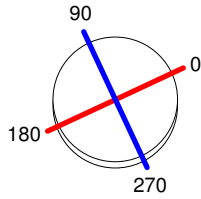
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180.0 ——— 0.0  
 270.0 ——— 90.0



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**Measurement**

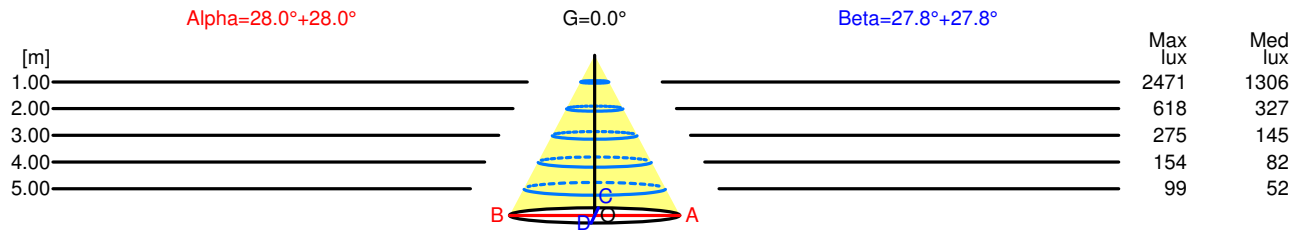
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## Width at 50.00 % of Max Intensity

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	0.53	1.06	1.59	2.13	2.66	OC	0.53	1.06	1.58	2.11	2.64
OB	0.53	1.06	1.59	2.13	2.66	OD	0.53	1.06	1.58	2.11	2.64

	Luminous Intensities [ cd ]									
	0	5	15	25	35	45	55	65	75	85
OA	2470.53	2453.70	2051.17	1428.25	660.08	56.82	13.87	4.97	1.14	0.24
OB	2470.53	2453.70	2051.17	1428.25	660.08	56.82	13.87	4.97	1.14	0.24
OC	2470.53	2448.96	2055.39	1417.80	616.56	60.71	14.47	5.02	1.14	0.23
OD	2470.53	2448.96	2055.39	1417.80	616.56	60.71	14.47	5.02	1.14	0.23



H[m]	D[m]	Max lux	Med lux	Alpha=28.0°+28.0°	G=0.0	
1.00	1.06	2471	1306			
2.00	2.13	618	327			
3.00	3.19	275	145			
4.00	4.25	154	82			
5.00	5.31	99	52			

H[m]	D[m]	Max lux	Med lux	Beta=27.8°+27.8°	G=0.0	
1.00	1.06	2471	1306			
2.00	2.11	618	327			
3.00	3.17	275	145			
4.00	4.23	154	82			
5.00	5.28	99	52			

**Luminaire**

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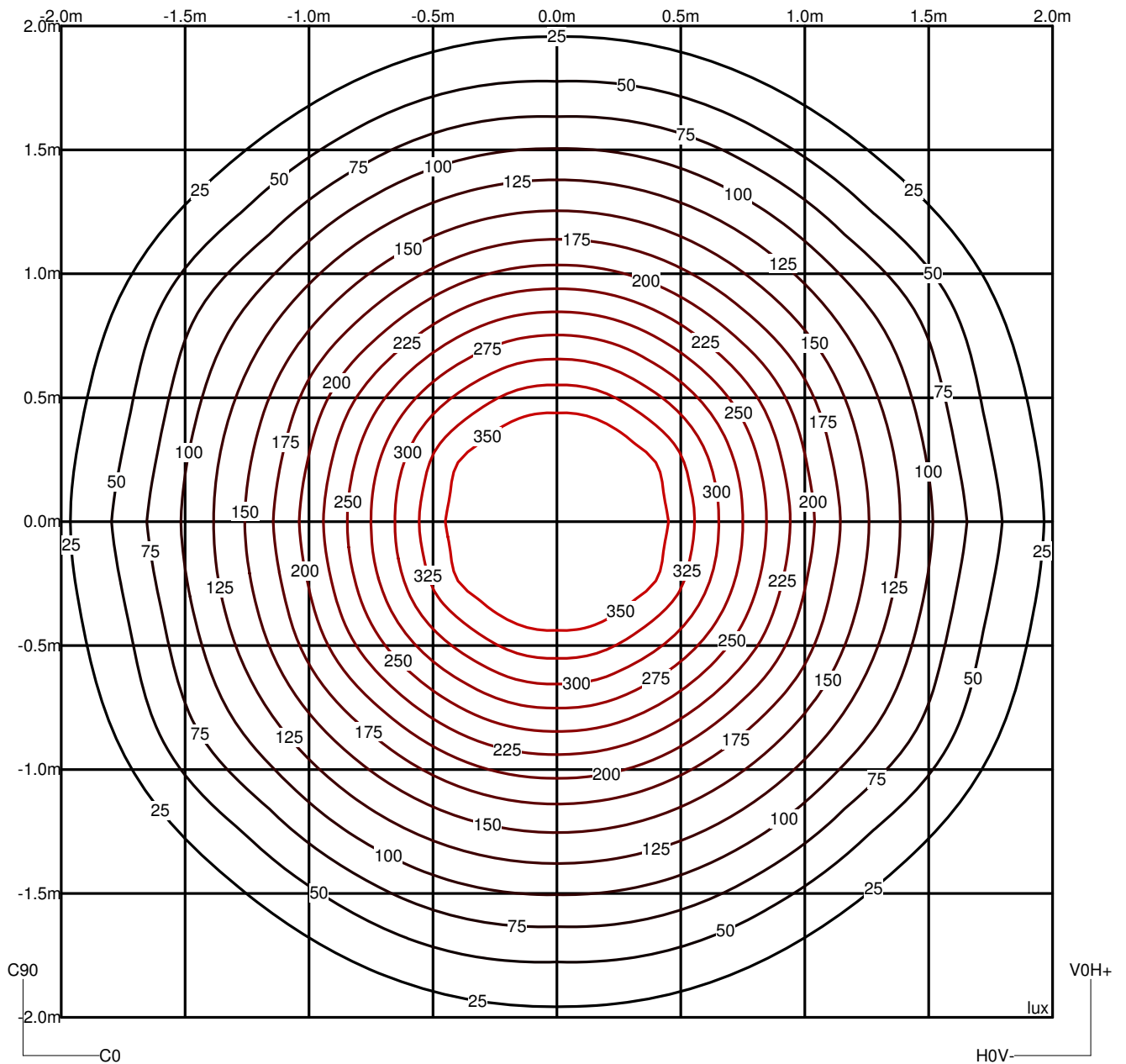
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Isolux (Floor)

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



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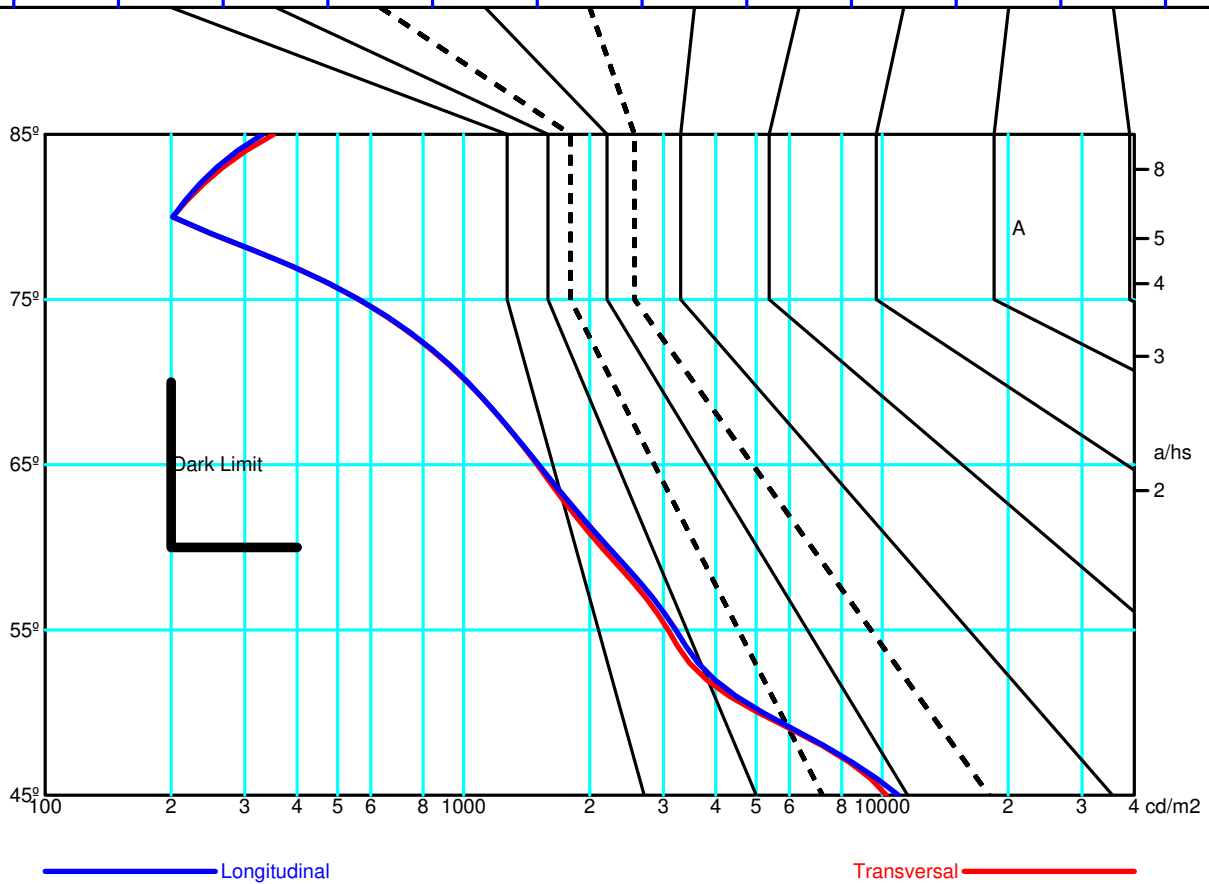
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		Average Luminance [cd/m <sup>2</sup> ]									
		45°	50°	55°	60°	65°	70°	75°	80°	85°	
0.0°	10232	5051	3079	2138	1498	1018	561	202	352	---	
90.0°	10931	5187	3213	2220	1511	1023	563	202	331	---	

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**

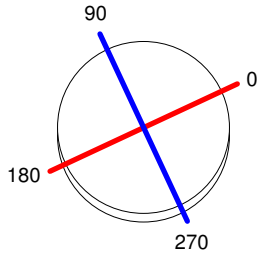
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**Measurem.**

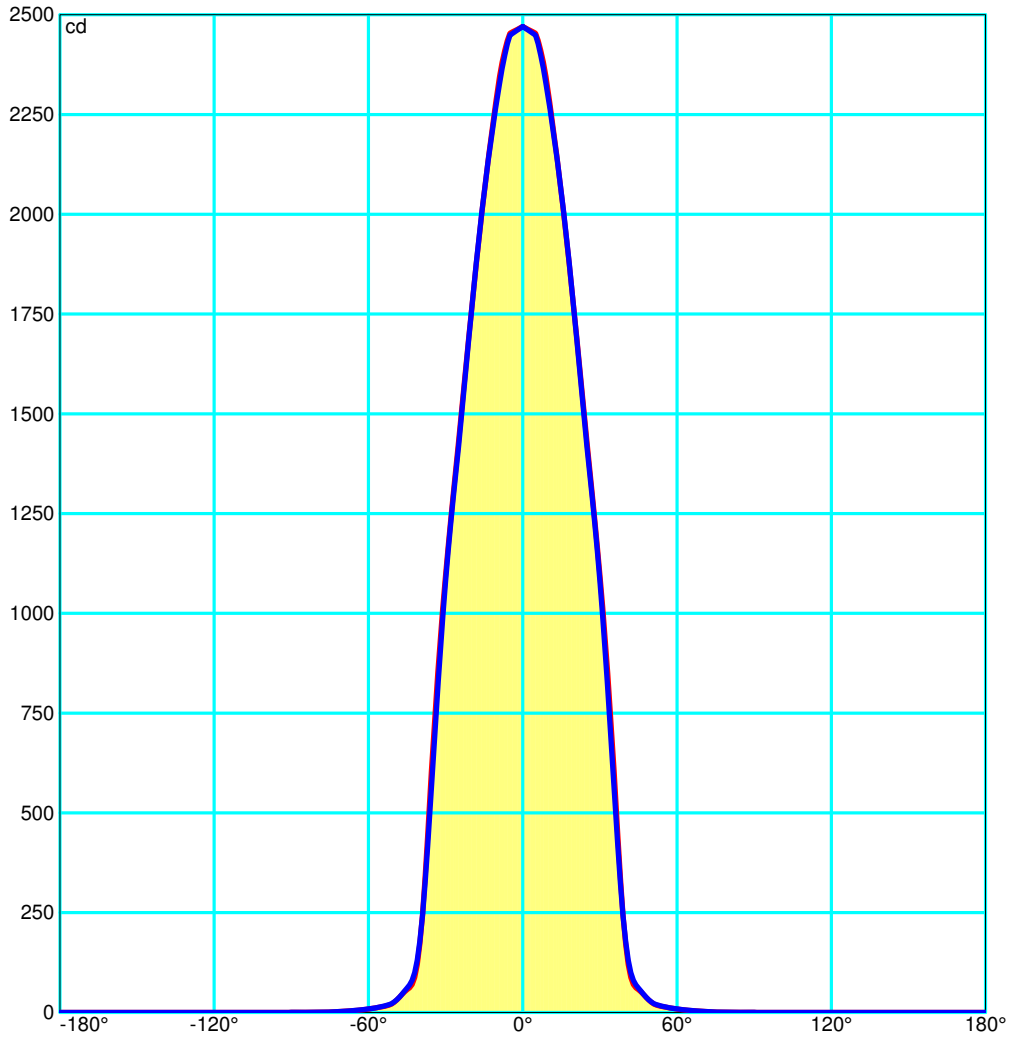
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Lamps Flux	1931.07 lm	Maximum value	2470.53 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Diam=100mm



C Halfplanes



**Luminaire**

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**Measurement**

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Lamps Flux	1931.07 lm	Maximum value	2470.53 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	18.8	19.4	19.0	19.6	19.5	18.5	19.2	18.7	19.4	19.5
x=2H y=3H	18.6	19.2	18.9	19.5	19.4	18.4	19.0	18.7	19.2	19.4
x=2H y=4H	18.6	19.1	18.9	19.4	19.4	18.3	18.9	18.6	19.1	19.4
x=2H y=6H	18.5	19.0	18.8	19.3	19.3	18.2	18.8	18.6	19.0	19.3
x=2H y=8H	18.5	19.0	18.8	19.2	19.3	18.2	18.7	18.5	19.0	19.3
x=2H y=12H	18.4	18.9	18.8	19.2	19.2	18.2	18.6	18.5	18.9	19.2
x=4H y=2H	18.6	19.1	18.9	19.4	19.4	18.3	18.9	18.6	19.1	19.4
x=4H y=3H	18.4	18.9	18.8	19.2	19.3	18.2	18.6	18.5	18.9	19.3
x=4H y=4H	18.4	18.8	18.7	19.1	19.2	18.1	18.5	18.5	18.8	19.2
x=4H y=6H	18.3	18.6	18.7	19.0	19.1	18.0	18.4	18.4	18.7	19.1
x=4H y=8H	18.2	18.5	18.7	18.9	19.1	18.0	18.3	18.4	18.7	19.1
x=4H y=12H	18.2	18.5	18.6	18.9	19.0	18.0	18.2	18.4	18.6	19.0
x=8H y=4H	18.2	18.5	18.7	18.9	19.1	18.0	18.3	18.4	18.7	19.1
x=8H y=6H	18.2	18.4	18.6	18.8	19.0	17.9	18.1	18.3	18.5	19.0
x=8H y=8H	18.1	18.3	18.6	18.7	19.0	17.8	18.0	18.3	18.5	19.0
x=8H y=12H	18.1	18.2	18.5	18.7	18.9	17.8	18.0	18.3	18.4	18.9
x=12H y=4H	18.2	18.5	18.6	18.9	19.0	18.0	18.2	18.4	18.6	19.0
x=12H y=6H	18.1	18.3	18.6	18.7	18.9	17.8	18.0	18.3	18.5	18.9
x=12H y=8H	18.1	18.2	18.5	18.7	18.9	17.8	18.0	18.3	18.4	18.9



**Luminaire**

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**Measur.**

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Lamps Flux	1931.07 lm	Maximum value	2470.53 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Total Flux=1931.07 Luminaire Flux=1931.06

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	0.72	0.76	0.81	0.85	0.87	0.92	0.95	0.97	0.99	1.00	1.01	1.02
RC	-	-	-	-	-	-	-	-	-	-	-	-

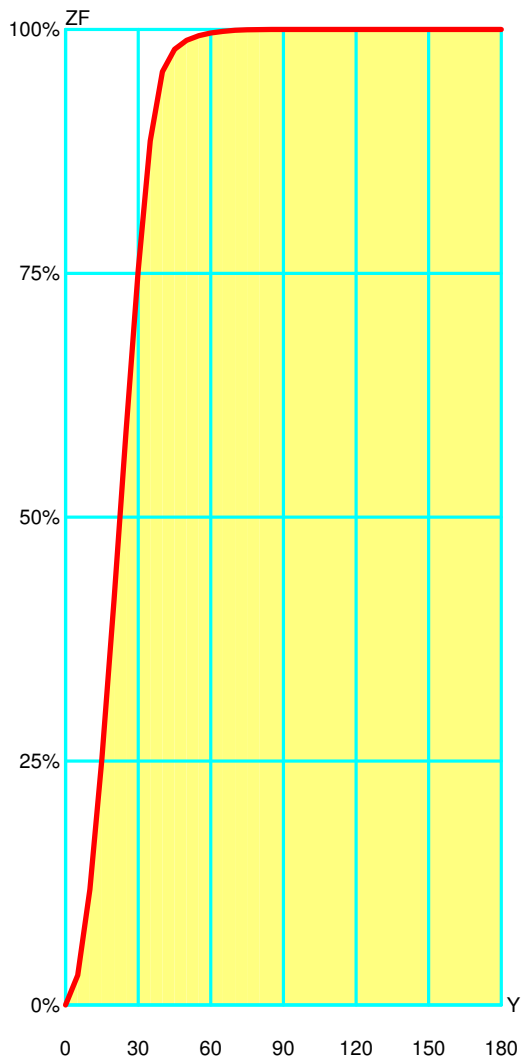
## Zonal Flux per 1000 Lumen

Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	119	415	753	957	989	996	999	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

## CIE Flux Codes

97 100 100 100 100

C.I.E.	-/-/-/-/-/-/-/-/-/-	LOR	99.99969 %
D DIN 5040	A60	ULOR	0.00000 %
F UTE	--	DLOR	99.99969 %
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°	30.48	30.48	3.05 %	3.05 %
10°	88.05	118.52	8.80 %	11.85 %
15°	133.90	252.43	13.39 %	25.24 %
20°	162.98	415.41	16.30 %	41.54 %
25°	172.98	588.39	17.30 %	58.84 %
30°	165.02	753.40	16.50 %	75.34 %
35°	132.30	885.71	13.23 %	88.57 %
40°	70.90	956.61	7.09 %	95.66 %
45°	23.01	979.62	2.30 %	97.96 %
50°	9.25	988.87	0.92 %	98.89 %
55°	4.70	993.57	0.47 %	99.36 %
60°	2.77	996.34	0.28 %	99.63 %
65°	1.72	998.07	0.17 %	99.81 %
70°	1.02	999.09	0.10 %	99.91 %
75°	0.55	999.64	0.06 %	99.96 %
80°	0.22	999.86	0.02 %	99.99 %
85°	0.07	999.94	0.01 %	99.99 %
90°	0.06	1000.00	0.01 %	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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**Measurum.**

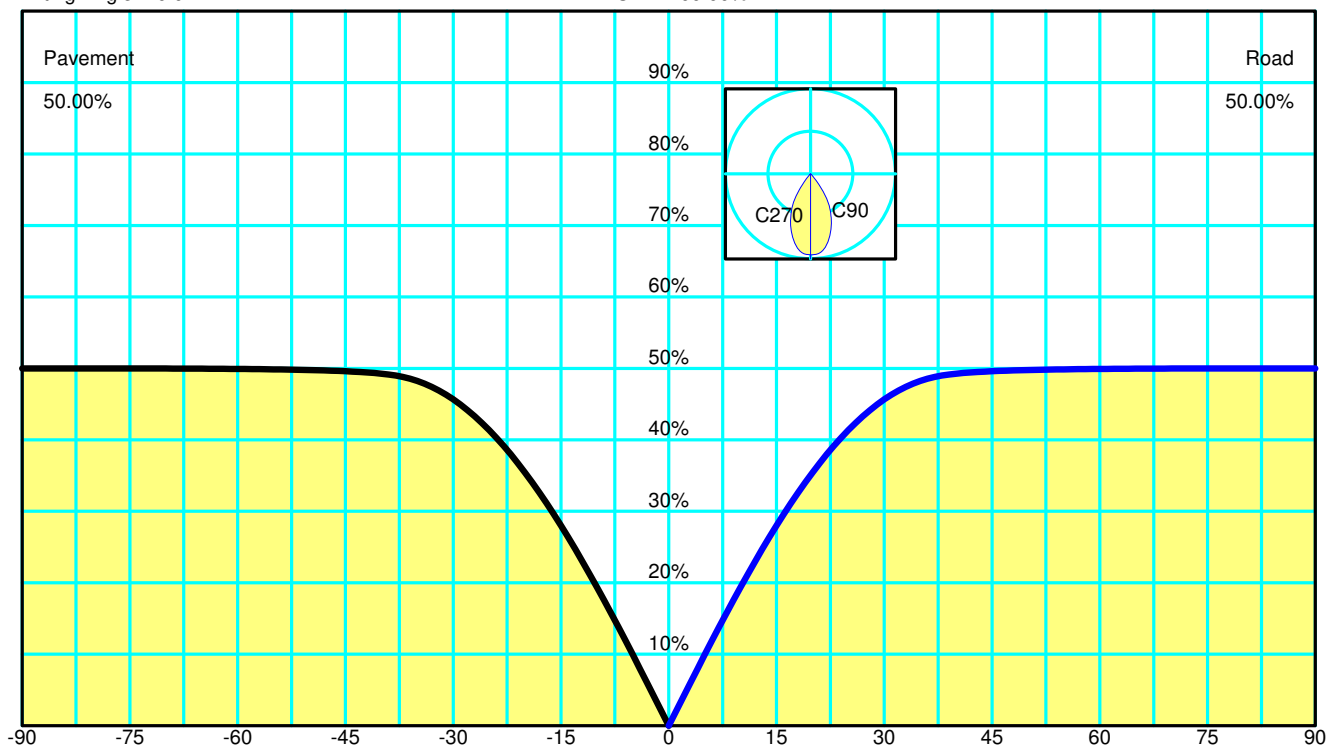
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Lamps Flux	1931.07 lm	Maximum value	2470.53 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Pavement			Road		
Piano	0	0.00%	Piano	0	0.00%
Piano	-5	9.92%	Piano	5	9.92%
Piano	-10	19.38%	Piano	10	19.38%
Piano	-15	28.00%	Piano	15	28.00%
Piano	-20	35.42%	Piano	20	35.42%
Piano	-25	41.36%	Piano	25	41.36%
Piano	-30	45.67%	Piano	30	45.67%
Piano	-35	48.24%	Piano	35	48.24%
Piano	-40	49.26%	Piano	40	49.26%
Piano	-45	49.60%	Piano	45	49.60%
Piano	-50	49.77%	Piano	50	49.77%
Piano	-55	49.86%	Piano	55	49.86%
Piano	-60	49.92%	Piano	60	49.92%
Piano	-65	49.96%	Piano	65	49.96%
Piano	-70	49.98%	Piano	70	49.98%
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	11.5° Narrow	DLOR	99.99969 %
Throw	5.9° Short	ULOR	0.00000 %
SLI (glare)	12.6 Tight	Efficiency	99.99969 %
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 V    Very Short    Quadrilateral Symmetry

**Luminaire**

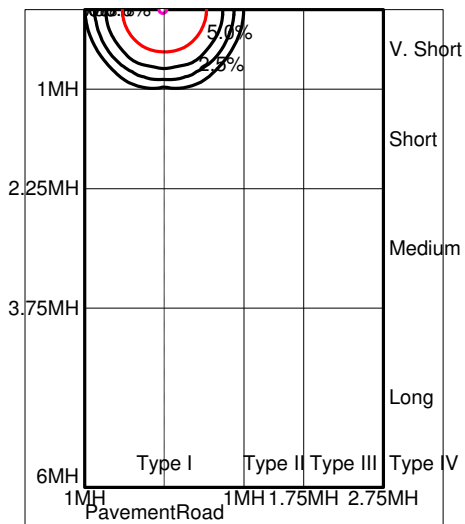
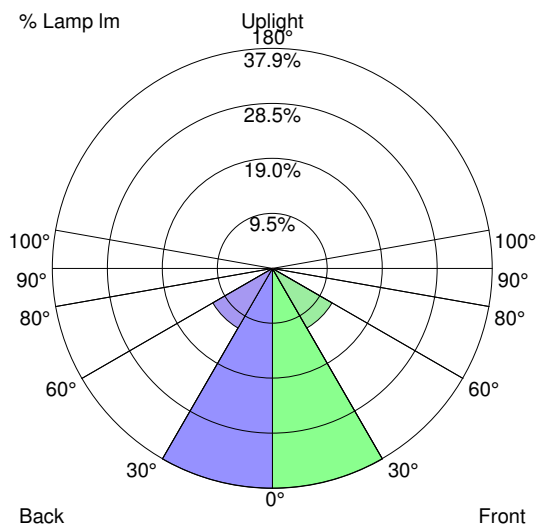
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**Measurement**

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## US ROAD STANDARDS



Luminaire Classification System (LCS)				
LCS Zone		Lumens	%Lamp	%Lum
FL	0° -- 30°	732.8 lm	37.9 %	37.9 %
FM	30° -- 60°	229.3 lm	11.9 %	11.9 %
FH	60° -- 80°	3.3 lm	0.2 %	0.2 %
FVH	80° -- 90°	0.1 lm	0.0 %	0.0 %
BL	0° -- 30°	732.8 lm	37.9 %	37.9 %
BM	30° -- 60°	229.3 lm	11.9 %	11.9 %
BH	60° -- 80°	3.3 lm	0.2 %	0.2 %
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>1931.1 lm</b>	<b>100.0 %</b>	<b>100.0 %</b>
BUG B2 U0 G0		Type V Very Short	Quadrilateral Symmetry	

