

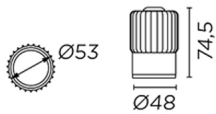
## Play 13W Module

Designer: LEDS C4 Team

**Description**

Module Play 13W 13W 4000K CRI 80 White IP20 1277lm

	Finish	Material
Structure	White	Aluminium Polycarbonate
Diffuser	Transparent	Methacrylate

**TECHNICAL CHARACTERISTICS****Light source**

Light source: LED CREE  
 Light source power (W): 13W  
 Luminaire total power (W): 13W  
 Color temperature: LED neutral-white  
 4000K  
 CRI: 80  
 Photobiological risk: RG2  
 Real Lumen: 1277  
 Qty Leds: 1  
 Lm/Real W: 98  
 Life Time: 50.000h L80B20  
 Bin / Grup: 40H  
 MacAdam steps: 2  
 UGR: 24.2

**GEAR**

This item requires gear. It is not included.  
 Voltage / Frequency: max. 350mA

**Luminaire**

Warranty: 5 Years

**Logistics**

Energy Efficiency: LED A++  
 EAN Code: 8435381456764  
 Net Weight (Kg): 0.13  
 Weight in Kg (packaged): 0.18  
 Masterbox: 50

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

**Luminaire**

Code 71-5131-14-37  
 Name LED RECESSED LIGHT

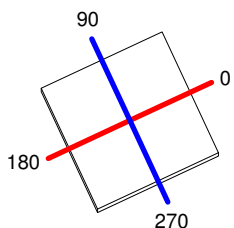
**Measurerm.**

Code 71-3882-14-37  
 Name LED RECESSED LIGHT

Luminaire Flux	1277.08 lm	Luminaire Power	14.60 W	Efficacy	87.47 lm/W	Efficiency	100.00%
Lamps Flux	1277.10 lm	Maximum value	2019.66 cd	Position	C=270.00 G=1.00	CG	Asymmetrical
Rectangular Luminaire Rectangular Luminous Area	Length Length	39 mm 39 mm	Width Width	39 mm 39 mm	Height Height	1 mm 0 mm	
Horizontal Luminous Area Emitting area on Plane 0° Emitting area on Plane 90°	0.001521 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 0.000368 m2				
Coordinate system Date Measurement Distance	CG 23-01-2015 0.00	Symmetry Type Maximum Gamma Angle Measurement Flux	Asymmetrical 90 1277.10 lm				
Operator Temperature Humidity Notes	25.00 °C 60.00 %	Source voltage Source current Photocell					

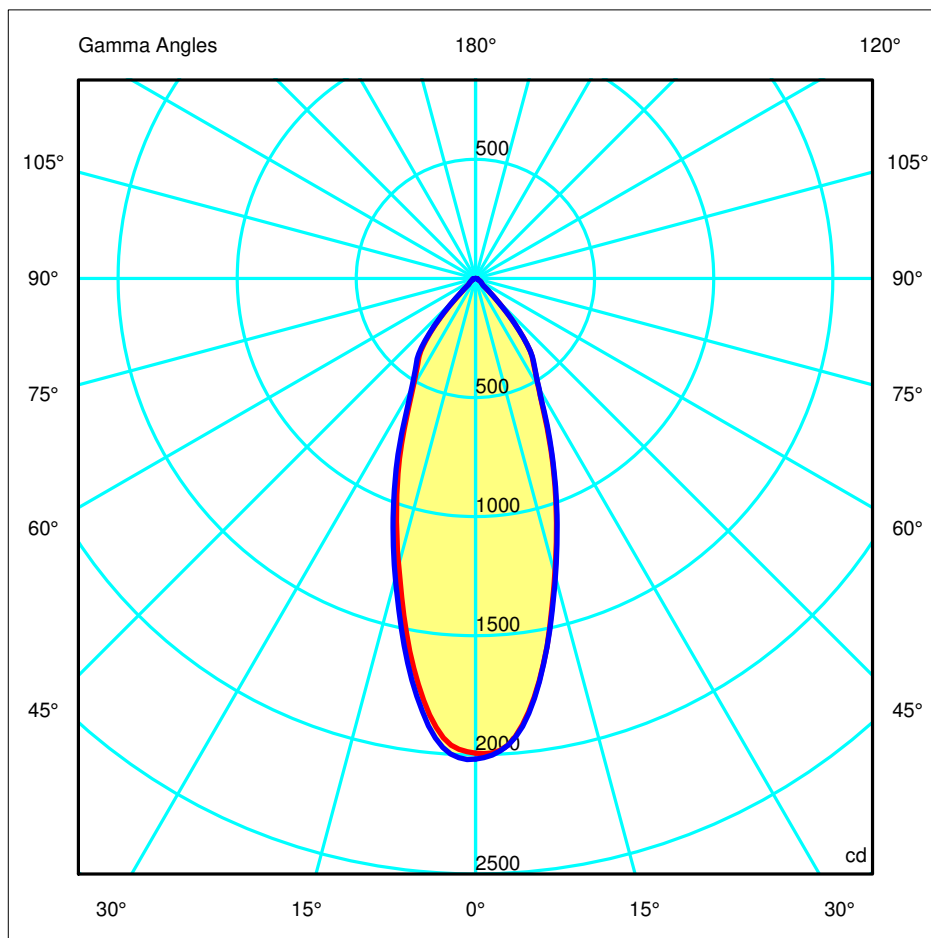
Line	Code LED	Luminaire Lamps Name LED - 14.60 W	Flux [lm] 1277.10	Pow. [W] 14.60	Q.ty 1
C.I.E. F UTE	90 97 99 100 100 1.00 A	D DIN 5040 B NBN	A60 BZ 1		

39mm x 39mm



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.**

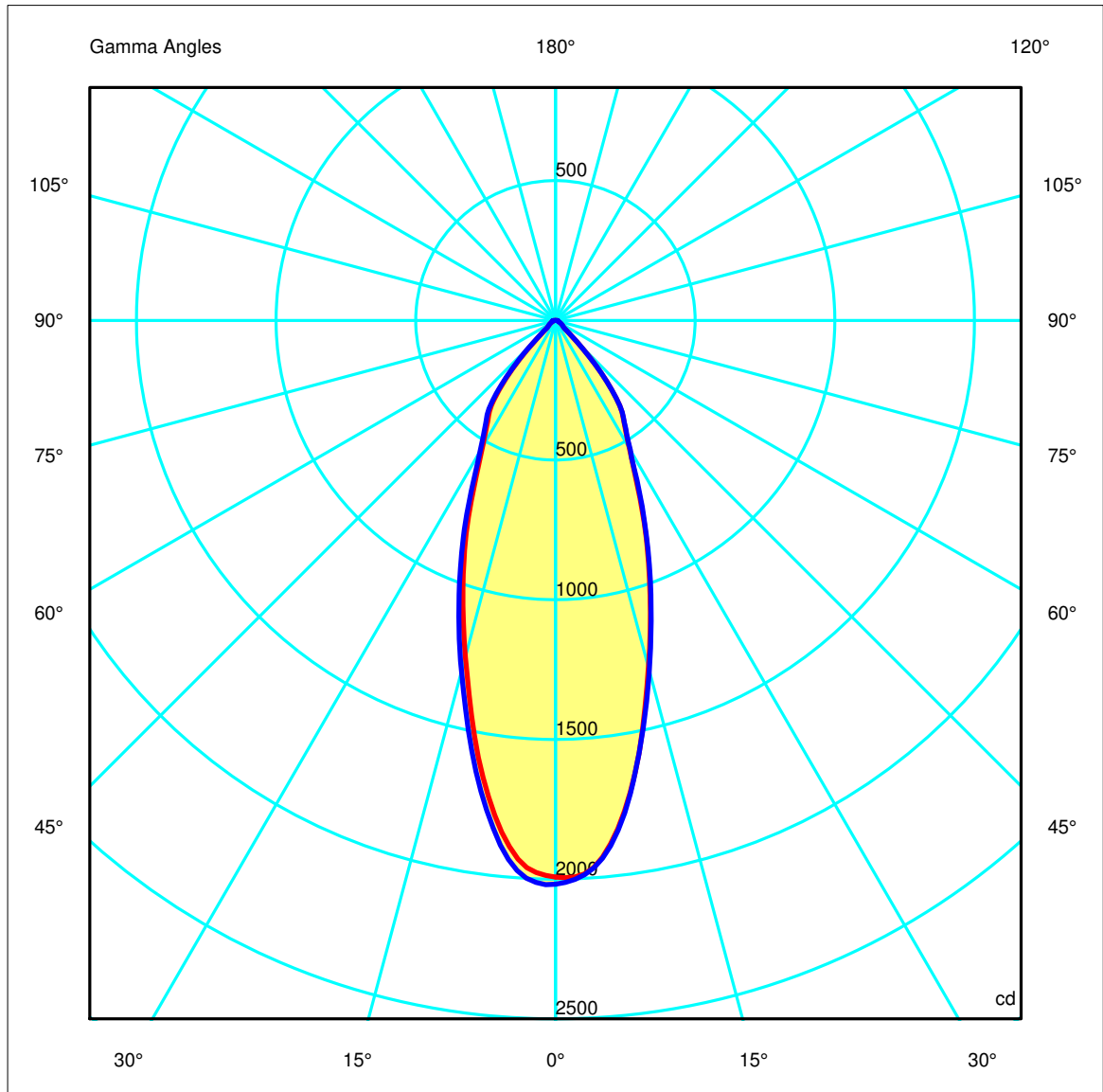
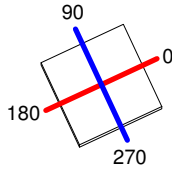
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39mm x 39mm

C Halfplanes

180.0 ——— 0.0  
 270.0 ——— 90.0



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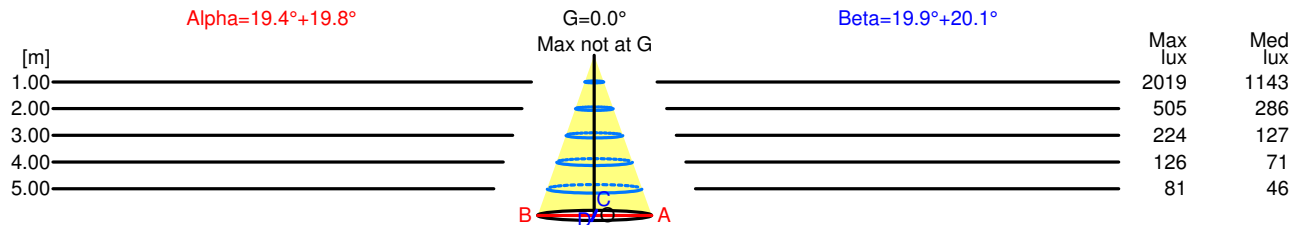
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## Width at 50.00 % of Max Intensity

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	0.36	0.72	1.08	1.44	1.80	OC	0.36	0.72	1.09	1.45	1.81
OB	0.35	0.70	1.06	1.41	1.76	OD	0.37	0.73	1.10	1.47	1.83

## Luminous Intensities [ cd ]

	0	5	15	25	35	45	55	65	75	85
OA	1992.41	1928.44	1285.33	726.53	422.17	110.70	29.57	15.07	9.37	7.39
OB	1992.41	1890.75	1246.64	717.56	417.75	109.76	27.75	14.99	10.57	7.60
OC	2017.68	1932.20	1296.85	734.82	423.98	106.33	29.98	14.62	9.00	7.06
OD	2017.68	1936.21	1300.35	743.41	432.32	118.50	28.78	15.82	11.23	9.54



H[m]	D[m]	Max lux	Med lux	Alpha=19.4°+19.8°	G=0,0 Max not at G	
1.00	0.71	2019	1143			
2.00	1.42	505	286			
3.00	2.13	224	127			
4.00	2.84	126	71			
5.00	3.56	81	46			

H[m]	D[m]	Max lux	Med lux	Beta=20.1°+19.9°	G=0,0 Max not at G	
1.00	0.73	2019	1143			
2.00	1.46	505	286			
3.00	2.19	224	127			
4.00	2.92	126	71			
5.00	3.65	81	46			

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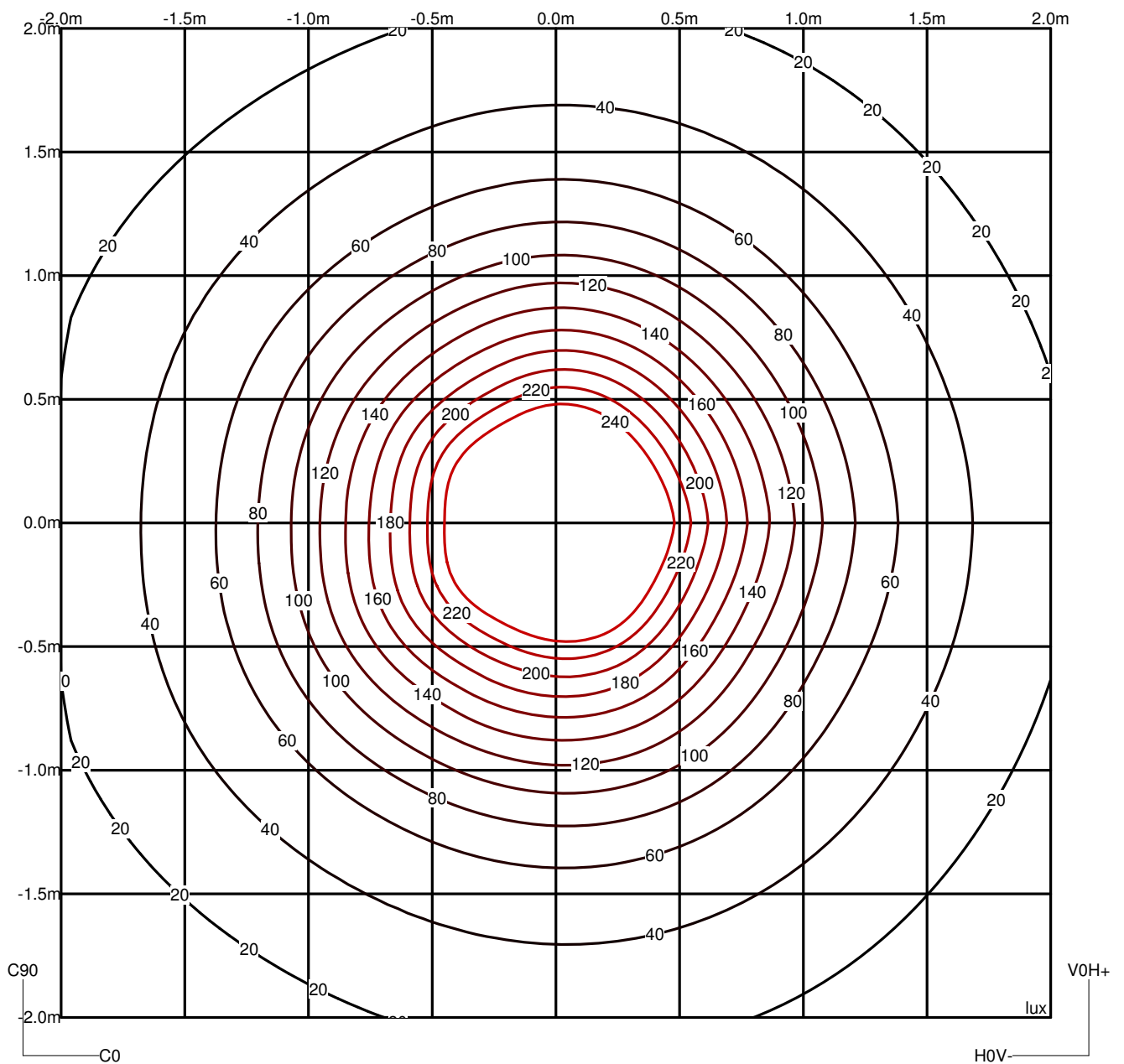
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Isolux (Floor)

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



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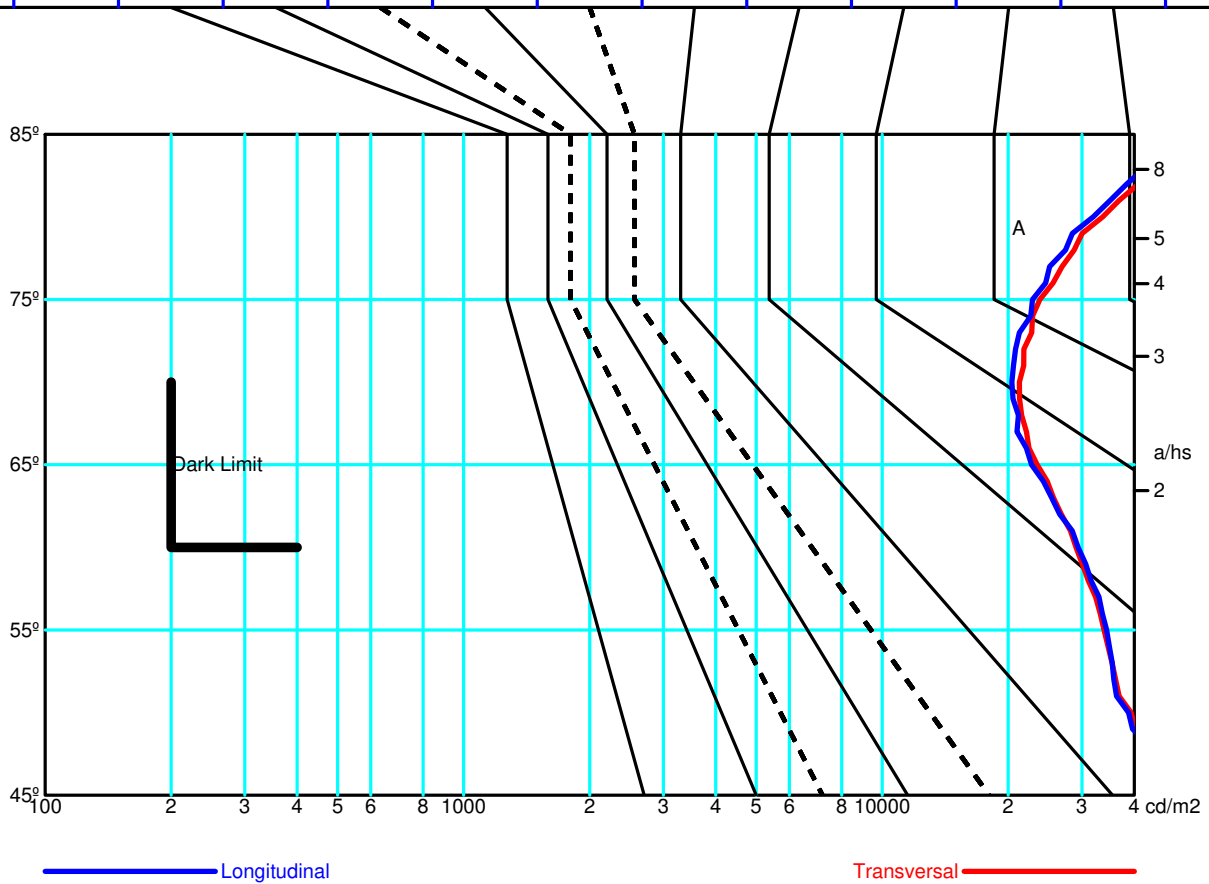
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	Average Luminance [cd/m <sup>2</sup> ]									
	45°	50°	55°	60°	65°	70°	75°	80°	85°	
0.0°	102932	39323	33892	29044	23444	21272	23807	33610	55762	---
90.0°	98861	38771	34359	29377	22743	20405	22857	31902	53272	---

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**

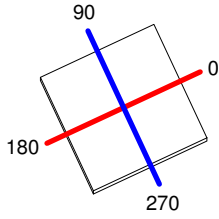
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**Measurem.**

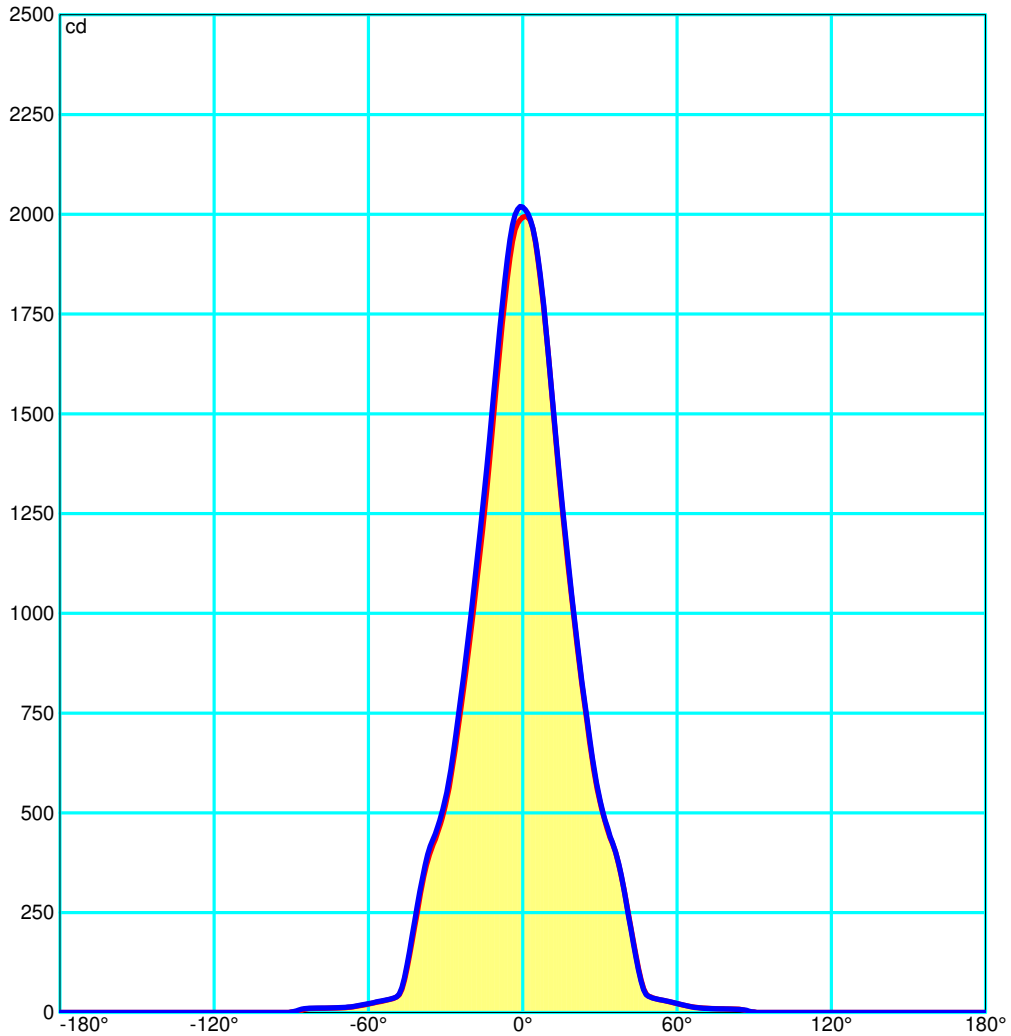
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39mm x 39mm



C Halfplanes  
 180.0 ———— 0.0  
 270.0 ———— 90.0



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Lamps Flux	1277.10 lm	Maximum value	2019.66 cd	Position	C=270.00 G=1.00	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	24.3	25.1	24.6	25.3	25.6	24.4	25.2	24.7	25.4	25.6
x=2H y=3H	24.4	25.1	24.7	25.3	25.7	24.5	25.2	24.8	25.4	25.7
x=2H y=4H	24.5	25.1	24.8	25.4	25.8	24.6	25.2	24.9	25.5	25.8
x=2H y=6H	24.7	25.3	25.0	25.6	26.0	24.8	25.4	25.2	25.7	26.0
x=2H y=8H	24.9	25.4	25.2	25.7	26.2	25.1	25.6	25.4	25.9	26.2
x=2H y=12H	25.1	25.7	25.5	26.0	26.5	25.4	25.9	25.7	26.2	26.5
x=4H y=2H	24.2	24.9	24.5	25.1	25.5	24.3	25.0	24.6	25.2	25.5
x=4H y=3H	24.4	24.9	24.7	25.2	25.6	24.5	25.0	24.8	25.3	25.6
x=4H y=4H	24.6	25.0	24.9	25.4	25.8	24.7	25.2	25.1	25.5	25.8
x=4H y=6H	24.9	25.4	25.4	25.7	26.3	25.1	25.5	25.5	25.9	26.3
x=4H y=8H	25.3	25.6	25.7	26.0	26.6	25.5	25.8	25.9	26.2	26.6
x=4H y=12H	25.7	26.0	26.1	26.4	27.1	26.0	26.3	26.4	26.7	27.1
x=8H y=4H	24.6	25.0	25.1	25.4	25.9	24.8	25.1	25.2	25.5	25.9
x=8H y=6H	25.2	25.5	25.7	25.9	26.5	25.4	25.7	25.8	26.1	26.5
x=8H y=8H	25.7	25.9	26.2	26.4	27.1	25.9	26.2	26.4	26.6	27.1
x=8H y=12H	26.3	26.5	26.8	27.0	27.8	26.6	26.8	27.1	27.3	27.8
x=12H y=4H	24.7	25.0	25.1	25.4	25.9	24.8	25.1	25.2	25.5	25.9
x=12H y=6H	25.3	25.5	25.8	26.0	26.6	25.5	25.7	25.9	26.2	26.6
x=12H y=8H	25.9	26.1	26.4	26.5	27.2	26.1	26.3	26.6	26.8	27.2



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Total Flux=1277.10 Luminaire Flux=1277.08

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	0.65	0.71	0.76	0.80	0.83	0.89	0.92	0.94	0.96	0.97	1.00	1.01
RC	-	-	-	-	-	-	-	-	-	-	-	-

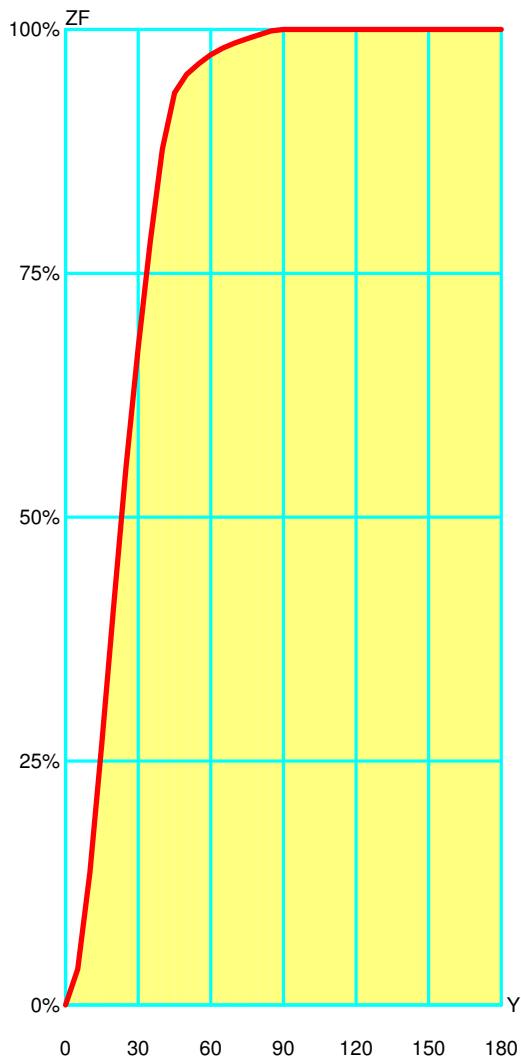
## Zonal Flux per 1000 Lumen

Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	136	413	674	878	954	974	986	995	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

## CIE Flux Codes

90 97 99 100 100

C.I.E.	-/-/-/-/-/-/-/-/-/-	LOR	99.99805 %
D DIN 5040	A60	ULOR	0.00000 %
F UTE	1.00 A	DLOR	99.99805 %
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°	36.74	36.74	3.67 %	3.67 %
10°	98.89	135.64	9.89 %	13.56 %
15°	133.42	269.05	13.34 %	26.91 %
20°	144.32	413.37	14.43 %	41.34 %
25°	138.75	552.13	13.88 %	55.21 %
30°	121.96	674.09	12.20 %	67.41 %
35°	108.29	782.38	10.83 %	78.24 %
40°	95.23	877.61	9.52 %	87.76 %
45°	57.39	935.00	5.74 %	93.50 %
50°	18.84	953.84	1.88 %	95.39 %
55°	11.03	964.87	1.10 %	96.49 %
60°	9.15	974.02	0.92 %	97.40 %
65°	6.96	980.98	0.70 %	98.10 %
70°	5.13	986.11	0.51 %	98.61 %
75°	4.38	990.49	0.44 %	99.05 %
80°	4.09	994.57	0.41 %	99.46 %
85°	3.84	998.41	0.38 %	99.84 %
90°	1.57	999.98	0.16 %	100.00 %
95°	0.00	999.98	0.00 %	100.00 %
100°	0.00	999.98	0.00 %	100.00 %
105°	0.00	999.98	0.00 %	100.00 %
110°	0.00	999.98	0.00 %	100.00 %
115°	0.00	999.98	0.00 %	100.00 %
120°	0.00	999.98	0.00 %	100.00 %
125°	0.00	999.98	0.00 %	100.00 %
130°	0.00	999.98	0.00 %	100.00 %
135°	0.00	999.98	0.00 %	100.00 %
140°	0.00	999.98	0.00 %	100.00 %
145°	0.00	999.98	0.00 %	100.00 %
150°	0.00	999.98	0.00 %	100.00 %
155°	0.00	999.98	0.00 %	100.00 %
160°	0.00	999.98	0.00 %	100.00 %
165°	0.00	999.98	0.00 %	100.00 %
170°	0.00	999.98	0.00 %	100.00 %
175°	0.00	999.98	0.00 %	100.00 %
180°	0.00	999.98	0.00 %	100.00 %

**Luminaire**

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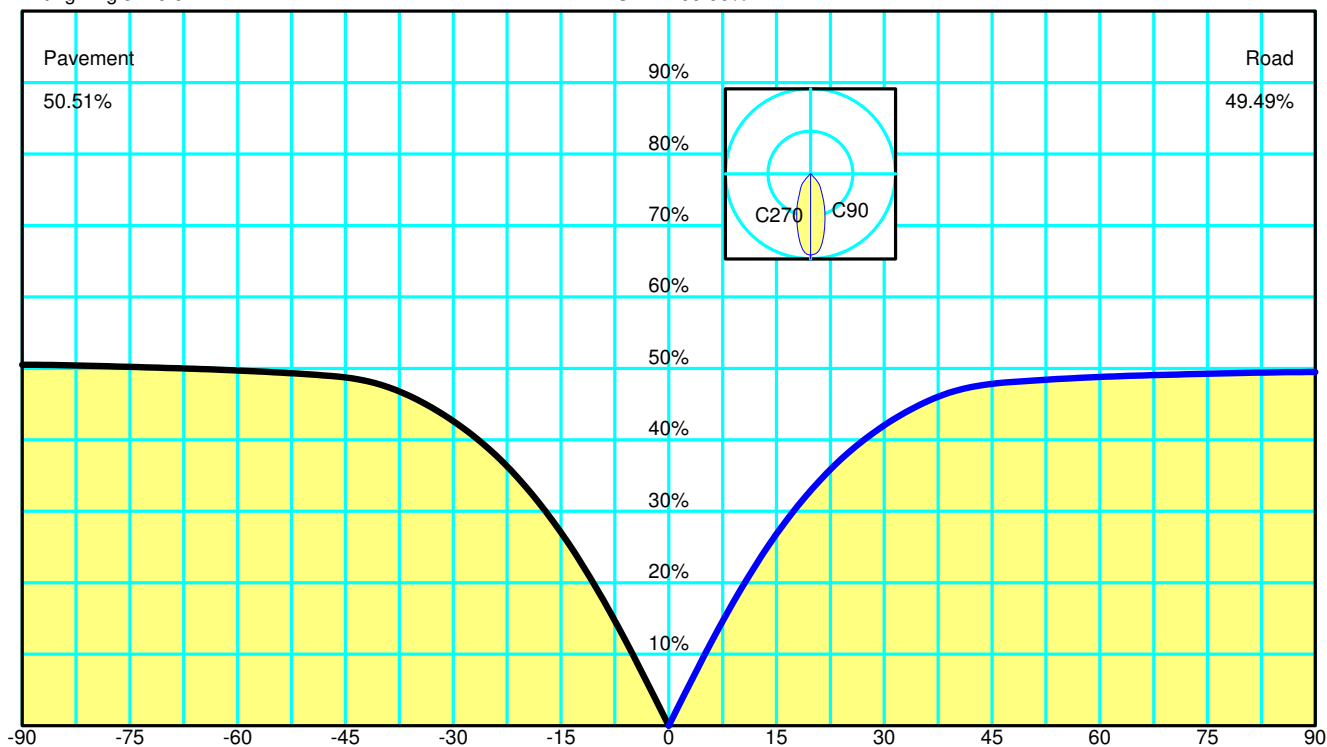
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Pavement			Road		
Piano	0	0.00%	Piano	0	0.00%
Piano	-5	9.95%	Piano	5	9.92%
Piano	-10	19.13%	Piano	10	19.03%
Piano	-15	27.04%	Piano	15	26.82%
Piano	-20	33.55%	Piano	20	33.19%
Piano	-25	38.70%	Piano	25	38.21%
Piano	-30	42.63%	Piano	30	42.04%
Piano	-35	45.62%	Piano	35	44.93%
Piano	-40	47.68%	Piano	40	46.88%
Piano	-45	48.73%	Piano	45	47.84%
Piano	-50	49.16%	Piano	50	48.25%
Piano	-55	49.46%	Piano	55	48.56%
Piano	-60	49.71%	Piano	60	48.80%
Piano	-65	49.90%	Piano	65	48.98%
Piano	-70	50.07%	Piano	70	49.12%
Piano	-75	50.21%	Piano	75	49.25%
Piano	-80	50.35%	Piano	80	49.36%
Piano	-85	50.46%	Piano	85	49.45%
Piano	-90	50.51%	Piano	90	49.49%

Tilting Angle = 0.0

DLOR = 100.00%



Spread	7.4° Narrow	DLOR	99.99805 %
Throw	3.6° Short	ULOR	0.00000 %
SLI (glare)	7.5 Tight	Efficiency	99.99805 %
CIE Cutoff	Cutoff - Max: C=270.0° Gamma=1.0°	RN	0.00000 %
lesna Cutoff	Cutoff	Luminous Intensity Class	G5
DIN5044	KB1	Glare Index	D5

IESNA Type V Very Short Quadrilateral Symmetry

**Luminaire**

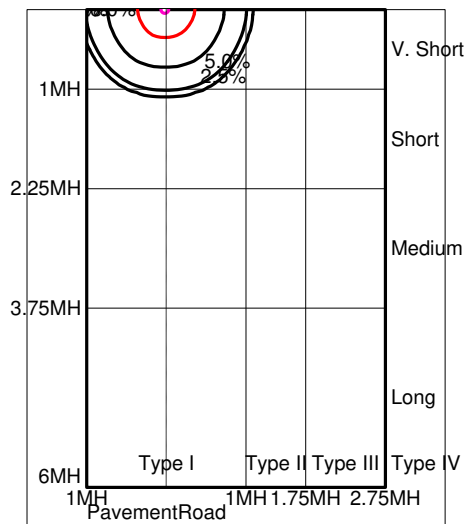
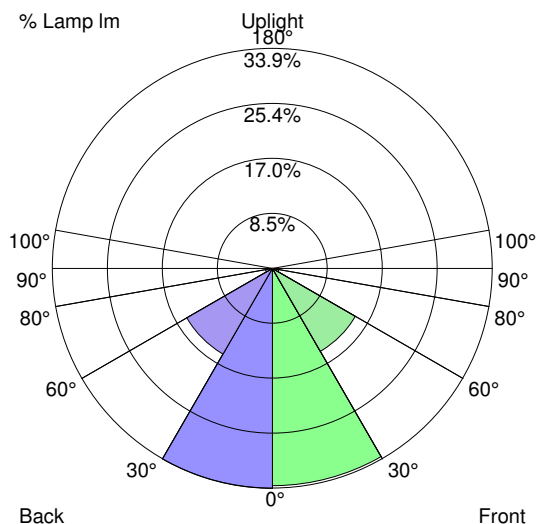
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## US ROAD STANDARDS



Luminaire Classification System (LCS)			
LCS Zone		Lumens	%Lamp      %Lum
FL	0° -- 30°	388.9 lm	33.5 %      33.5 %
FM	30° -- 60°	171.3 lm	14.8 %      14.8 %
FH	60° -- 80°	11.4 lm	1.0 %      1.0 %
FVH	80° -- 90°	2.9 lm	0.3 %      0.3 %
BL	0° -- 30°	393.7 lm	33.9 %      33.9 %
BM	30° -- 60°	176.9 lm	15.2 %      15.2 %
BH	60° -- 80°	12.4 lm	1.1 %      1.1 %
BVH	80° -- 90°	3.4 lm	0.3 %      0.3 %
UL	90° -- 100°	0.0 lm	0.0 %      0.0 %
UH	100° -- 180°	0.0 lm	0.0 %      0.0 %
<b>TOTALS</b>		<b>1161.0 lm</b>	<b>100.0 %      100.0 %</b>
BUG B1 U0 G0      Type V Very Short      Quadrilateral Symmetry			

