

EQUAL S

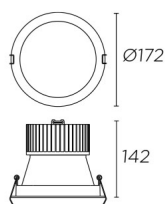
90-3985-N3-OE

Downlight EQUAL S 44.8W 4000K CRI 90 Grey IP54 4227lm

TECHNICAL FEATURES



IP54



Power (W) : 44.8W

Total power consumption of light (W) : 46W

Raw lumens : 4227

Raw lm/W : 92

Colour temperature : LED neutral-white 4000K

Structure material : Aluminium

Structure finish : Grey

Diffuser material : Methacrylate

Diffuser finish : Tinted

Useful life : 50.000h L80B20

Equipment included : Yes, electronic

Brand : TRIDONIC

Voltage / frequency : 220-240VAC/50-60Hz

Warranty : 2 Years

Max. temperature : 25°C



LUMINOTECHNIC FEATURES

Light source: LED CREE

CRI: 90

MacAdam steps: 2

Photobiological risk: RG1

EMERGENCY MODULE FEATURES

Emergency equipment: 3H

LOGISTICS

Net weight (kg): 1.77

Packaged weight (kg): 2.06

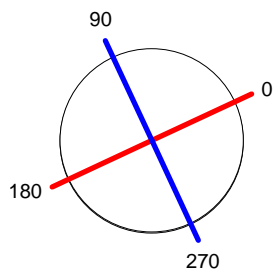
Packaging: 265mm x 270mm x 185mm



Luminaire		Measur.		Lamp	
Code	90-3985	Code	90-2023	Code	L3985 44.8W 80 4000K
Name	EQUAL S 44.8W 840 D.171mm	Name	EQUAL S 44.8W 840 D.171mm	Number	1
Line	Eulumdat	Date	28-10-2014	Position	
Efficiency	100.00%	Coordinate system	CG	Total Flux	4226.81 lm
Maximum value	2222.64 cd	Position	C=0.00 G=0.00	Double Symmetrical	
Round Luminaire	Diam.	171 mm	Height	2 mm	
Round Luminous Area	Diam.	140 mm	Height	0 mm	
Horizontal Luminous Area	0.015394 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°	0.003724 m2		
Symmetry Type	Double Symmetrical	Maximum Gamma Angle	90		
Measurement Distance	0.00	Measurement Flux	4226.81 lm		
Operator	Asselum T2	Source voltage			
Temperature	25.00 °C	Source current			
Humidity	60.00 %	Photocell			
Notes					

Luminaire Lamps					
Line	Code	Name	Flux [lm]	Pow. [W]	Q.ty
Eulumdat	L3985 44.8W 80 4000K	L3985 44.8W 80 4000K - 45.00 W	4226.81	45.00	1
C.I.E.	66 91 98 100 100	D DIN 5040	A50		
F UTE	1.00 C	B NBN	BZ 2 / 2.5 / BZ 3		

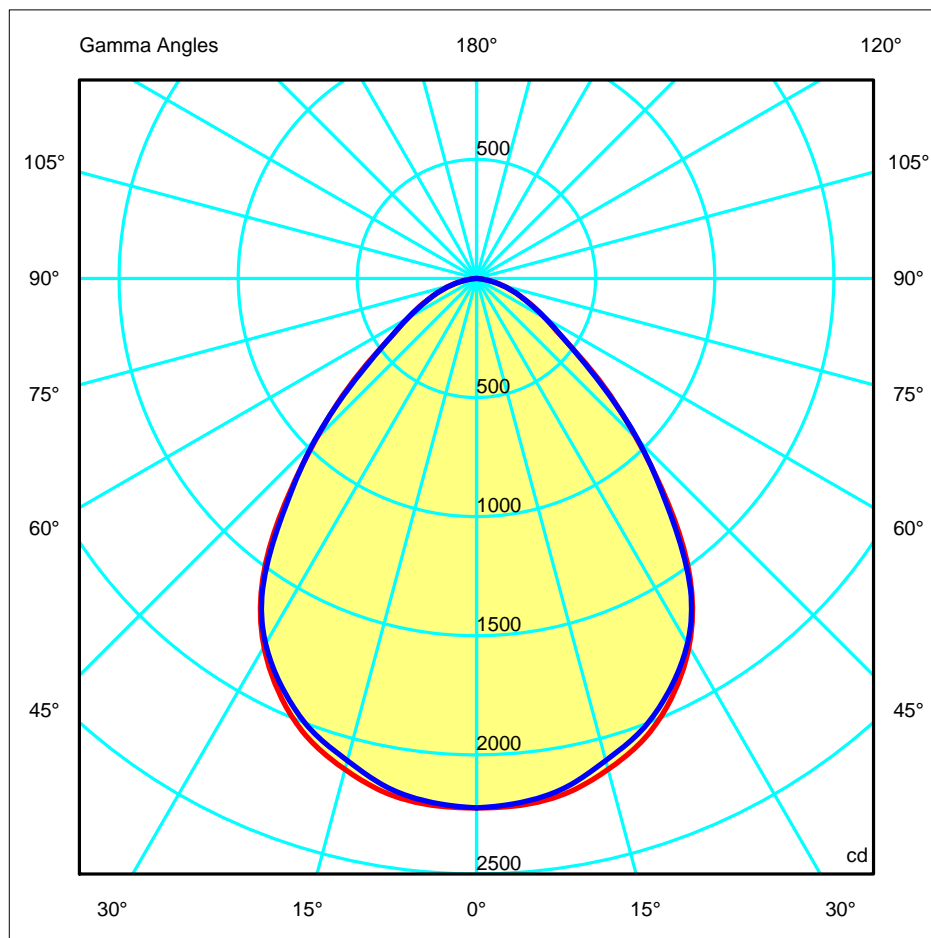
Diam=171mm



C Halfplanes

180.0 — 0.0
270.0 — 90.0

ULOR 0.00 %
DLOR 100.00 %
RN 0.00 %

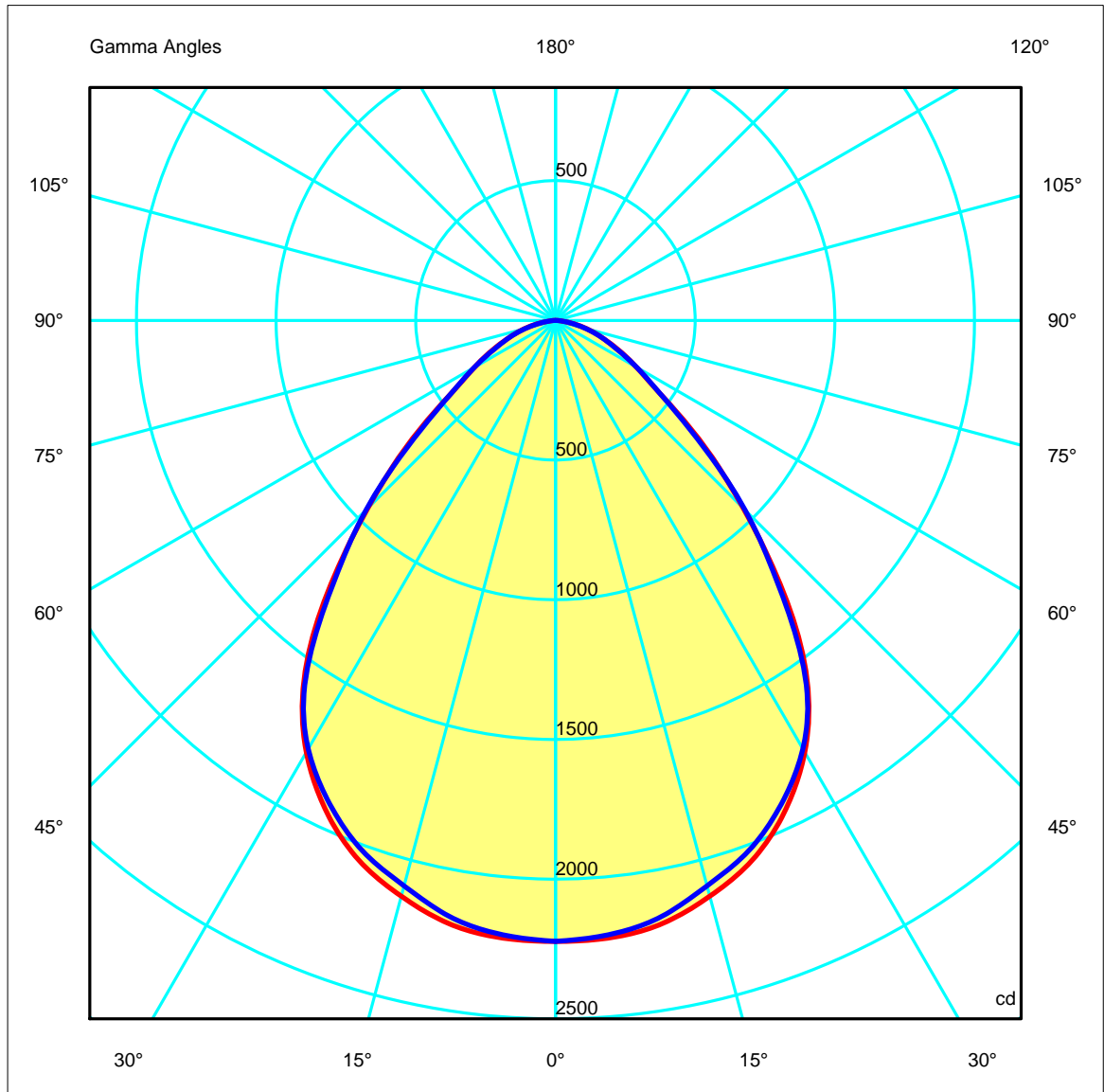
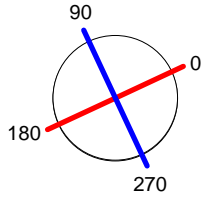


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Diam=171mm

C Halfplanes

180.0 ————— 0.0
 270.0 ————— 90.0

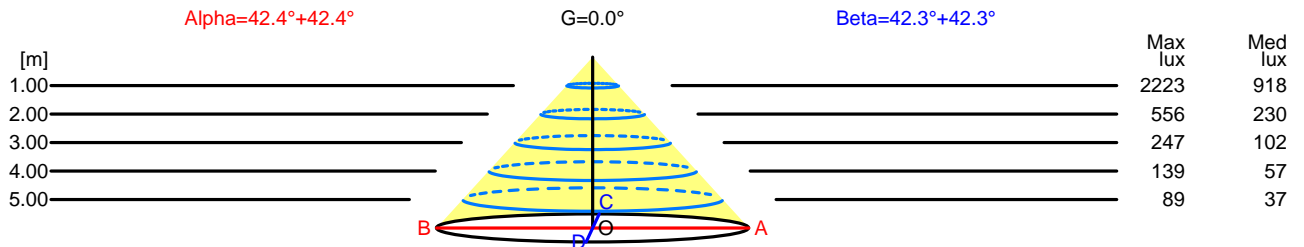


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Width at 50.00 % of Max Intensity

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	0.91	1.83	2.74	3.65	4.57	OC	0.91	1.82	2.73	3.64	4.55
OB	0.91	1.83	2.74	3.65	4.57	OD	0.91	1.82	2.73	3.64	4.55

	Luminous Intensities [cd]									
	0	5	15	25	35	45	55	65	75	85
OA	2222.64	2218.37	2133.65	1940.31	1570.18	950.76	457.74	246.40	117.58	20.77
OB	2222.64	2218.37	2133.65	1940.31	1570.18	950.76	457.74	246.40	117.58	20.77
OC	2222.64	2206.55	2095.08	1910.83	1558.98	959.07	457.92	239.96	110.79	17.29
OD	2222.64	2206.55	2095.08	1910.83	1558.98	959.07	457.92	239.96	110.79	17.29



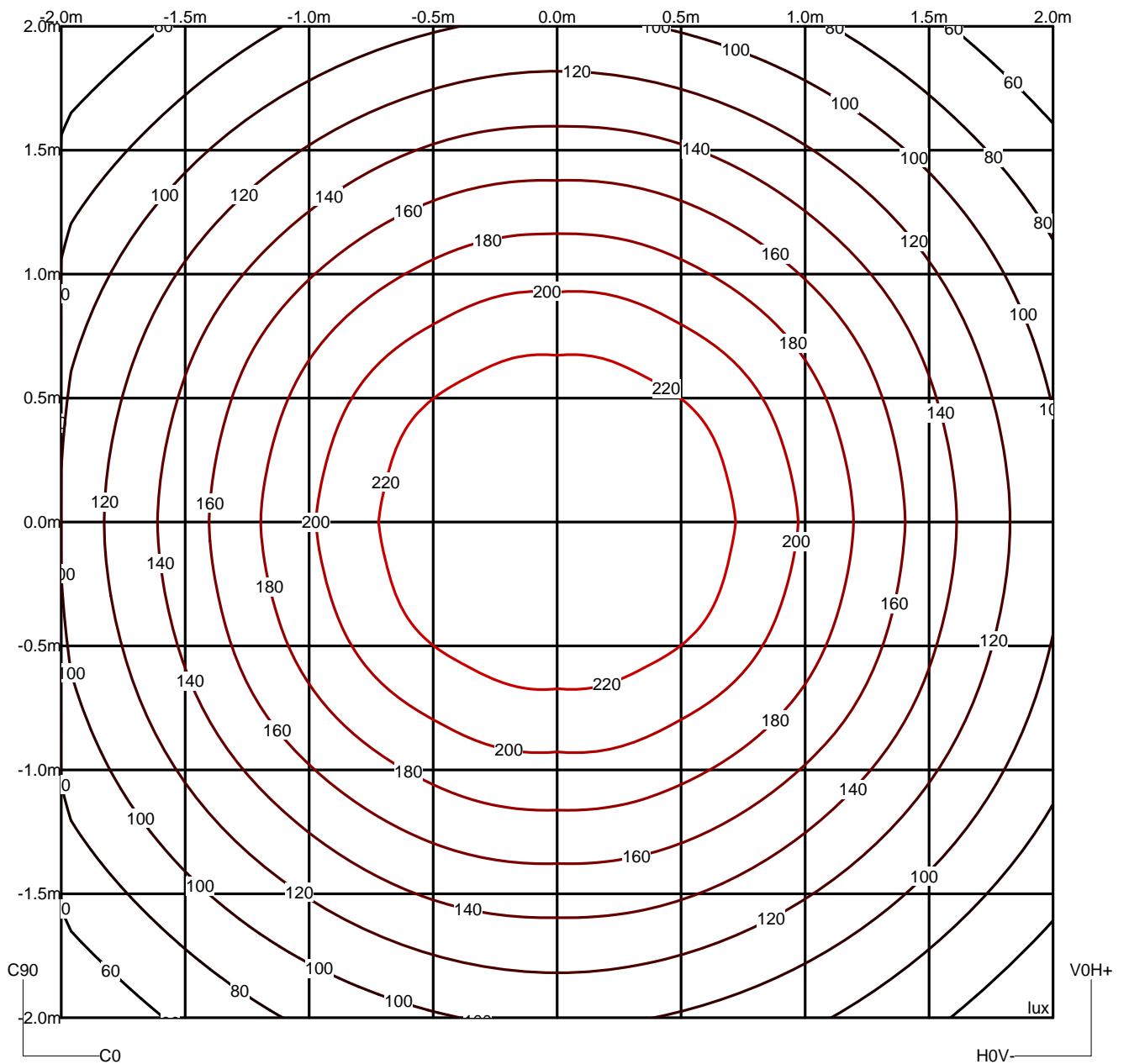
H[m]	D[m]	Max lux	Med lux	Alpha=42.4°+42.4°	G=0.0
1.00	1.83	2223	918		
2.00	3.65	556	230		
3.00	5.48	247	102		
4.00	7.31	139	57		
5.00	9.13	89	37		

H[m]	D[m]	Max lux	Med lux	Beta=42.3°+42.3°	G=0.0
1.00	1.82	2223	918		
2.00	3.64	556	230		
3.00	5.46	247	102		
4.00	7.28	139	57		
5.00	9.10	89	37		

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Isolux (Floor)

Luminaire position X=0.00m Y=0.00m Z=3.00m



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 Line Eulumdat

Measur.

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 Date 28-10-2014

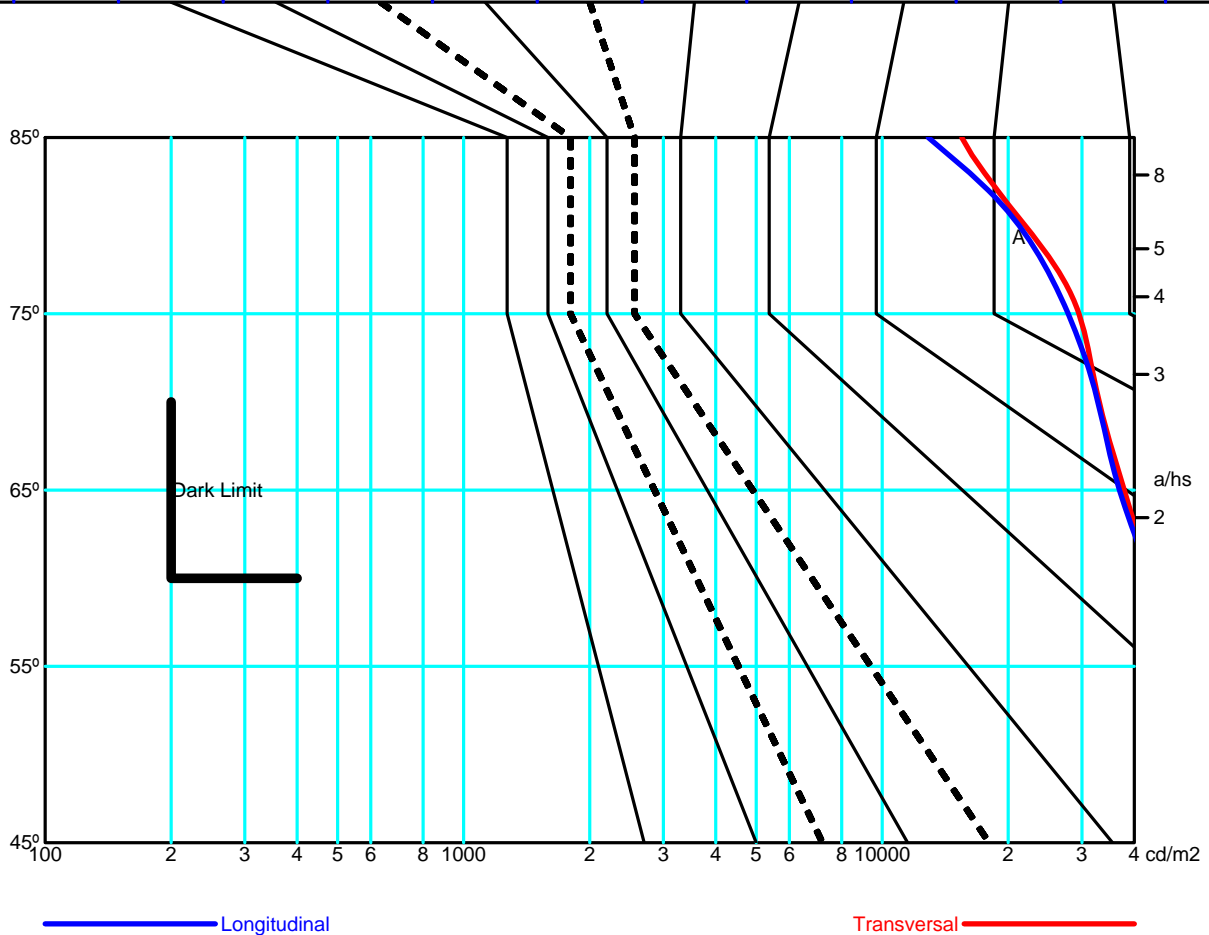
Lamp

Code L3985 44.8W 80 4000K
 Number 1
 Position

Efficiency 100.00% Coordinate system CG Total Flux 4226.81 lm

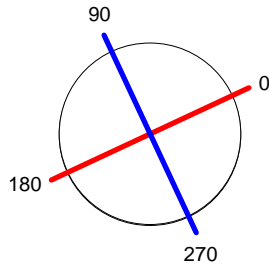
		Average Luminance [cd/m ²]									
		45°	50°	55°	60°	65°	70°	75°	80°	85°	
0.0°	87345	69394	51842	43485	37874	32980	29512	21955	15483	---	
90.0°	88108	67658	51862	43502	36883	32762	27808	21244	12885	---	

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

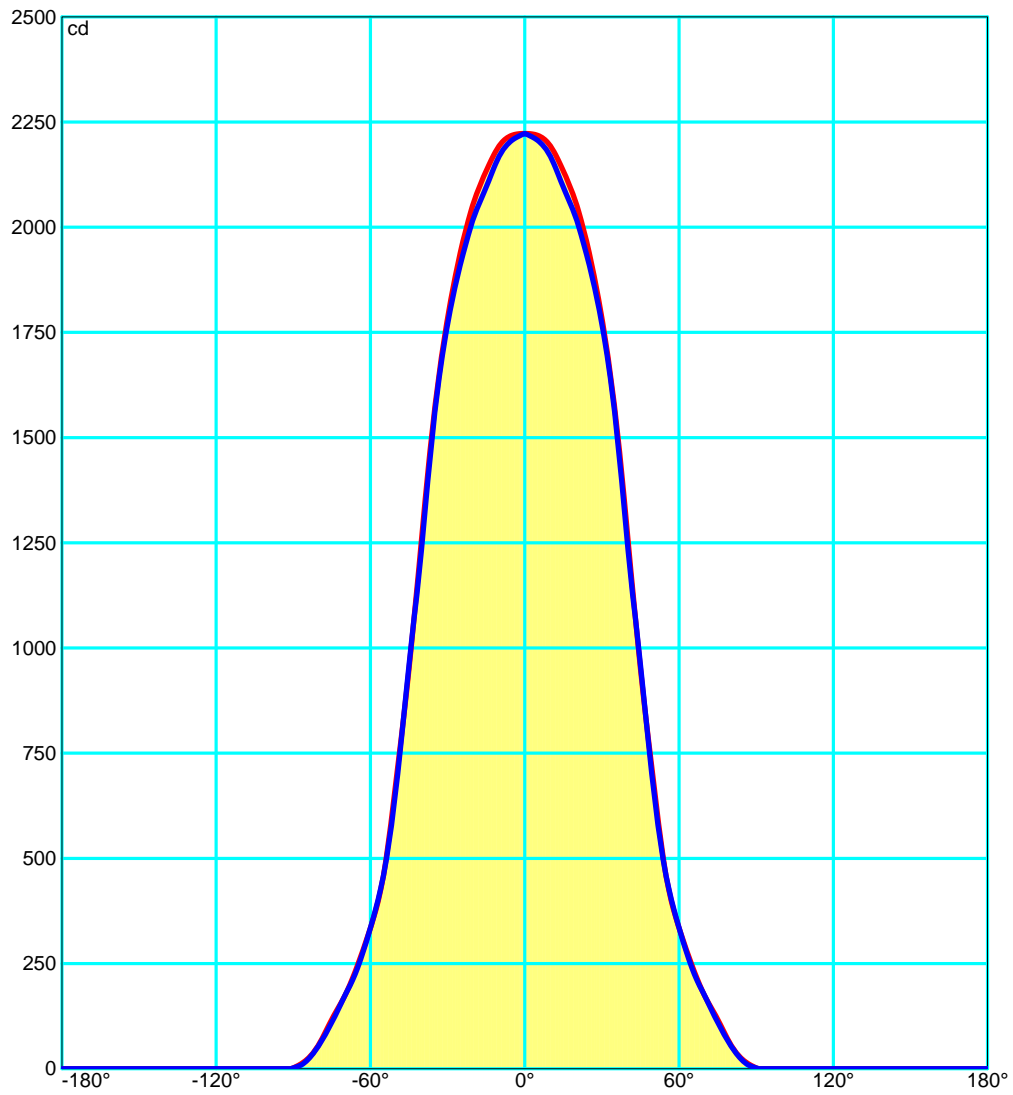


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C Halfplanes



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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	25.6	26.6	25.9	26.9	27.0	25.5	26.5	25.8	26.8	27.0
x=2H y=3H	26.3	27.2	26.6	27.5	27.6	26.2	27.1	26.5	27.4	27.6
x=2H y=4H	26.6	27.4	26.9	27.7	27.9	26.4	27.3	26.8	27.6	27.9
x=2H y=6H	26.7	27.6	27.1	27.8	28.0	26.6	27.4	27.0	27.7	28.0
x=2H y=8H	26.8	27.5	27.1	27.8	28.0	26.6	27.4	27.0	27.7	28.0
x=2H y=12H	26.8	27.5	27.1	27.8	28.0	26.6	27.4	27.0	27.7	28.0
x=4H y=2H	25.9	26.8	26.2	27.1	27.3	25.8	26.7	26.1	27.0	27.3
x=4H y=3H	26.8	27.6	27.2	27.9	28.1	26.7	27.4	27.0	27.7	28.1
x=4H y=4H	27.2	27.9	27.6	28.2	28.4	27.1	27.7	27.5	28.1	28.4
x=4H y=6H	27.5	28.0	27.9	28.4	28.6	27.3	27.9	27.7	28.3	28.6
x=4H y=8H	27.5	28.0	27.9	28.4	28.7	27.4	27.9	27.8	28.3	28.7
x=4H y=12H	27.5	28.0	28.0	28.4	28.7	27.4	27.8	27.8	28.3	28.7
x=8H y=4H	27.4	27.9	27.8	28.3	28.6	27.2	27.8	27.7	28.1	28.6
x=8H y=6H	27.7	28.1	28.1	28.5	28.9	27.6	28.0	28.0	28.4	28.9
x=8H y=8H	27.8	28.2	28.3	28.6	28.9	27.6	28.0	28.1	28.4	28.9
x=8H y=12H	27.8	28.1	28.3	28.6	28.9	27.7	28.0	28.2	28.4	28.9
x=12H y=4H	27.3	27.8	27.8	28.2	28.5	27.2	27.7	27.7	28.1	28.5
x=12H y=6H	27.7	28.1	28.2	28.5	28.8	27.6	27.9	28.0	28.4	28.8
x=12H y=8H	27.8	28.1	28.3	28.6	28.9	27.7	28.0	28.1	28.4	28.9

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Efficiency 100.00% Coordinate system CG Total Flux 4226.81 lm

Total Flux=4226.81 Luminaire Flux=4226.81

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	0.45	0.53	0.60	0.66	0.71	0.78	0.83	0.86	0.90	0.92	0.96	0.98
RC	3	2	2	2	2	2	2	2	2	2	2	2

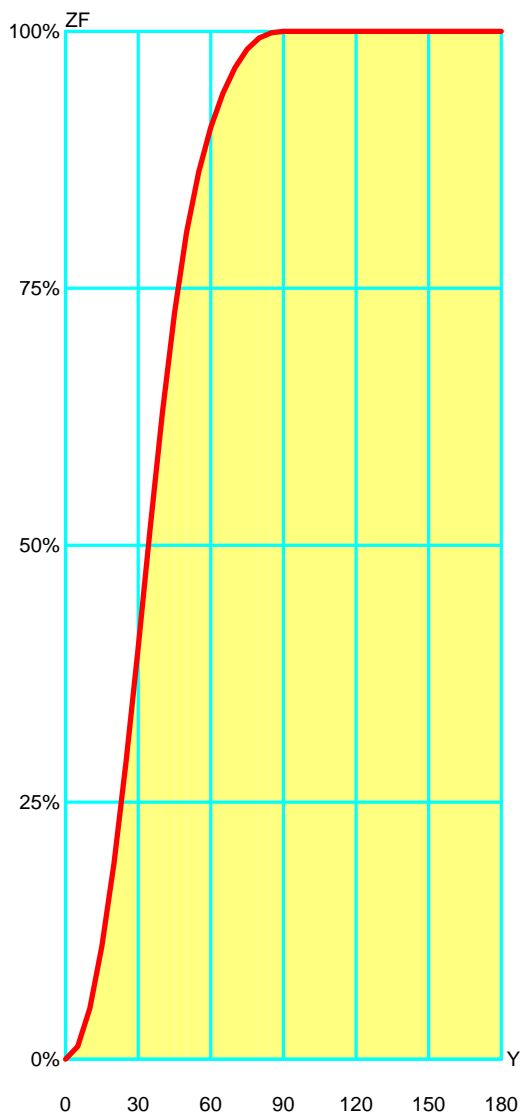
Zonal Flux per 1000 Lumen

Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	50	191	401	629	805	906	965	994	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

CIE Flux Codes

66 91 98 100 100

C.I.E.	3/2/2/2/2/2/2/2/2/2	LOR	99.99992 %
D DIN 5040	A50	ULOR	0.00000 %
F UTE	1.00 C	DLOR	99.99992 %
B NBN	BZ 2 / 2.5 / BZ 3	UFF	0.00000 %
RN	0.00000 %	DFF	100.00000 %
BLF	1.0	FFR	0.00000 %



Zonal Flux				
Gamma °	Flux	Sum lm	Flux [%]	Sum [%]
0°	0.00	0.00	0.00%	0.00 %
5°	12.55	12.55	1.25 %	1.25 %
10°	37.19	49.73	3.72 %	4.97 %
15°	60.32	110.06	6.03 %	11.01 %
20°	81.07	191.13	8.11 %	19.11 %
25°	98.56	289.69	9.86 %	28.97 %
30°	111.08	400.77	11.11 %	40.08 %
35°	116.53	517.30	11.65 %	51.73 %
40°	111.80	629.11	11.18 %	62.91 %
45°	97.24	726.35	9.72 %	72.64 %
50°	78.17	804.53	7.82 %	80.45 %
55°	58.64	863.17	5.86 %	86.32 %
60°	43.30	906.47	4.33 %	90.65 %
65°	33.25	939.71	3.32 %	93.97 %
70°	25.00	964.72	2.50 %	96.47 %
75°	17.82	982.53	1.78 %	98.25 %
80°	11.01	993.54	1.10 %	99.35 %
85°	5.04	998.58	0.50 %	99.86 %
90°	1.42	1000.00	0.14 %	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 %

