

Report No.:

Test Time: 2026-01-17 08:54

Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Lamp Catalog: 4000K

Number of Lamps:

Luminous Length (mm): 1500

Luminous Height (mm): 27

Current: 0.1870 A

Power Factor: 0.9440

Luminaire Description: X系列1.5米线条灯

Lamp Description:

Lumens per Lamp:

Luminous Width (mm): 130

Voltage: 231.80 V

Power: 40.97 W

Photometric Results

CIE Class: Direct

Measurement Flux: 4989.8 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H92.9

Vertical Diffuse Angle(50%): V86.7

Luminous Efficacy (lm/w): 121.79

Max. Intensity: 465.55 cd/klm

S/MH(C0/C180): 1.26

Total Rated Lamp Lumens: 4989.8 lm

Efficiency: 100%

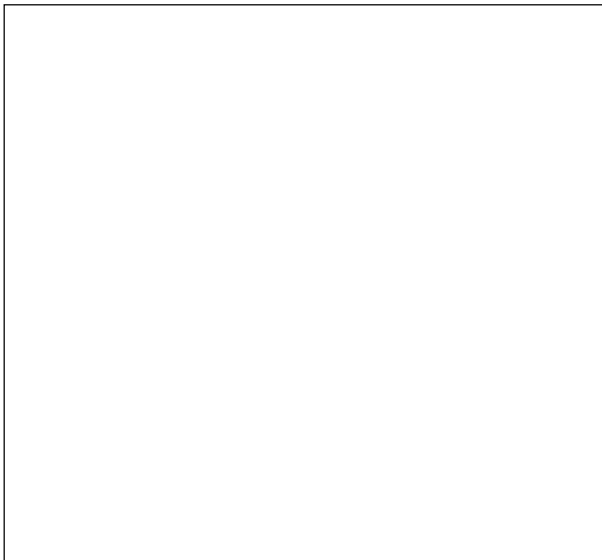
Upward Ratio: 0%

C0r0 Intensity: 462.17 cd/klm

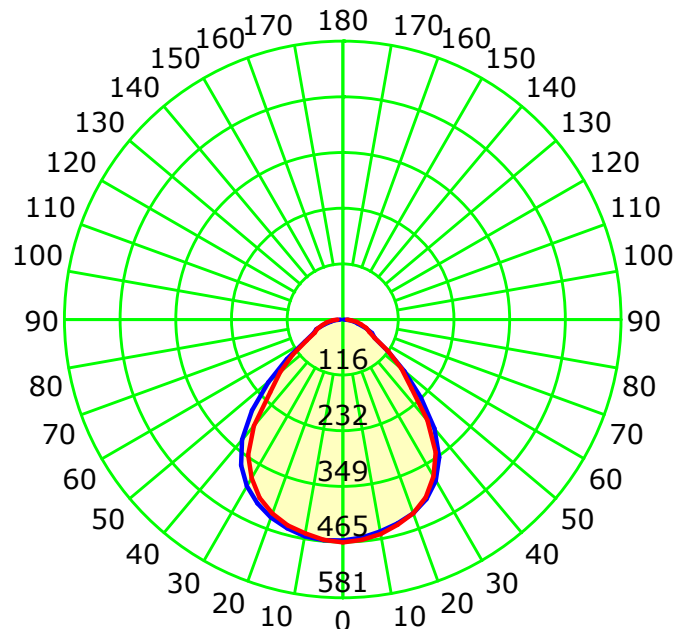
Pos of Max. Intensity: H90 V0

S/MH(C90/C270): 1.21

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd/klm

Average Diffuse Angle(50%): 89.8°

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:5.0

Test Device: GPM-1600L

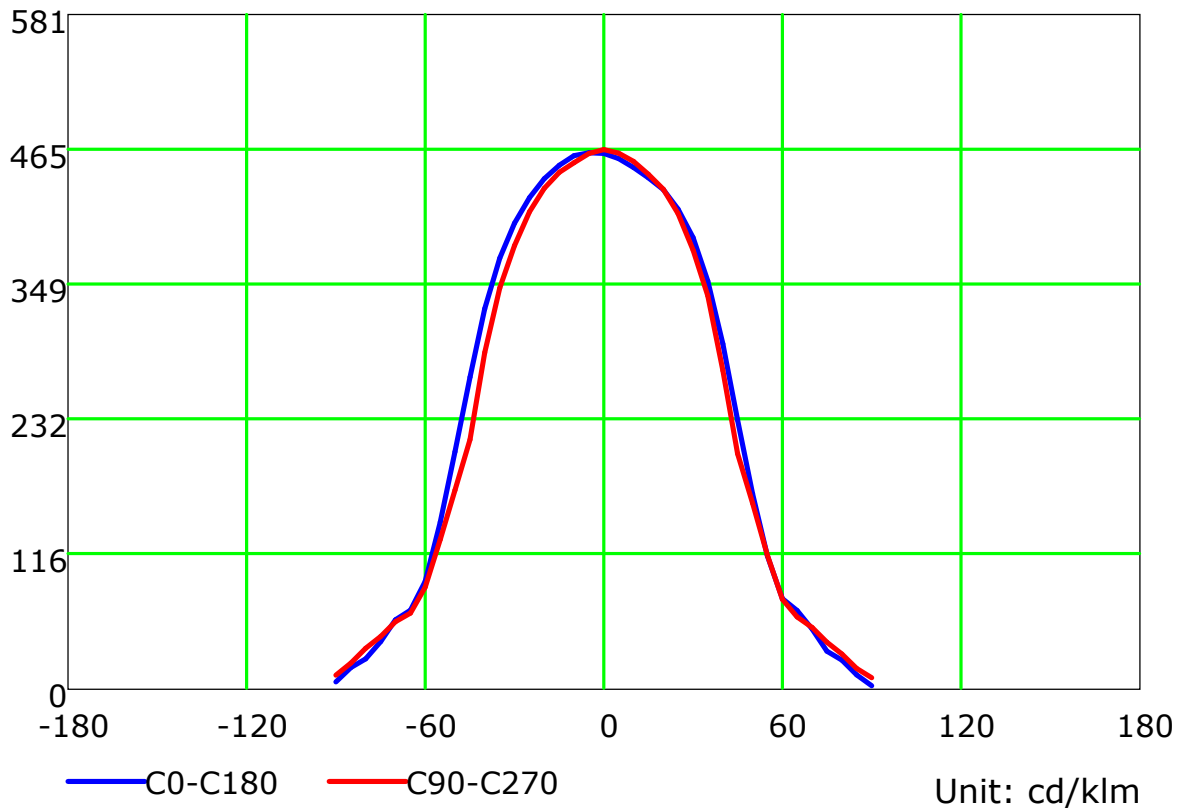
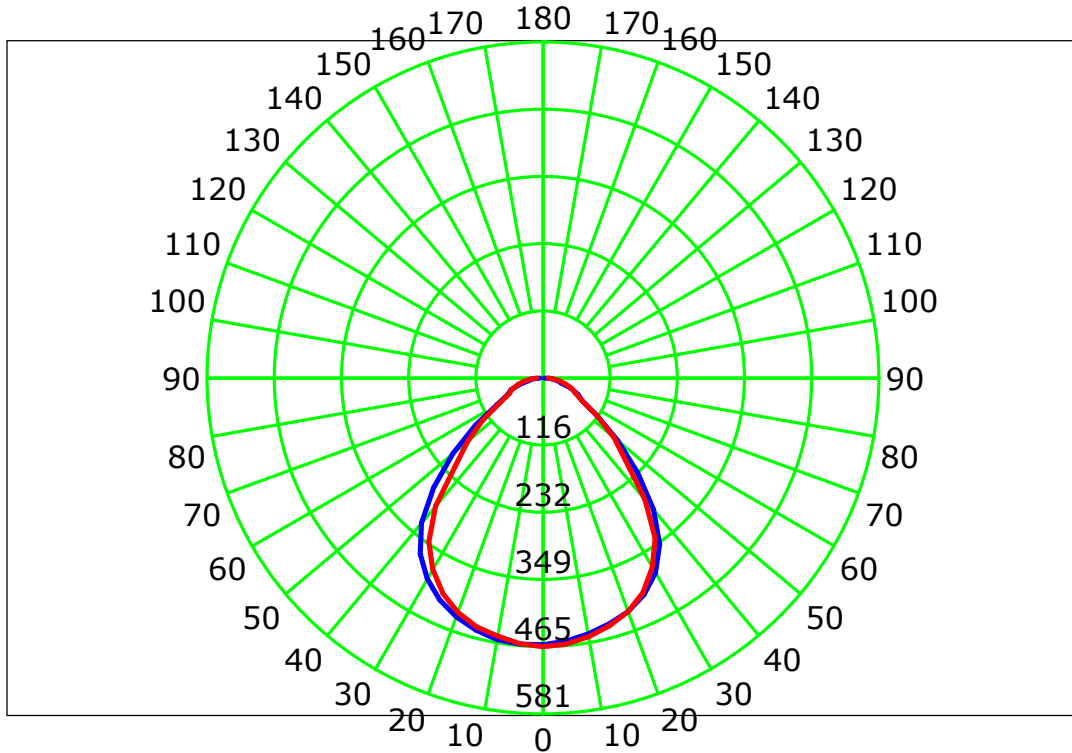
Distance: 7.172 m [K=1.0000]

Humidity:

Inspector:



Luminous Intensity Distribution Curve



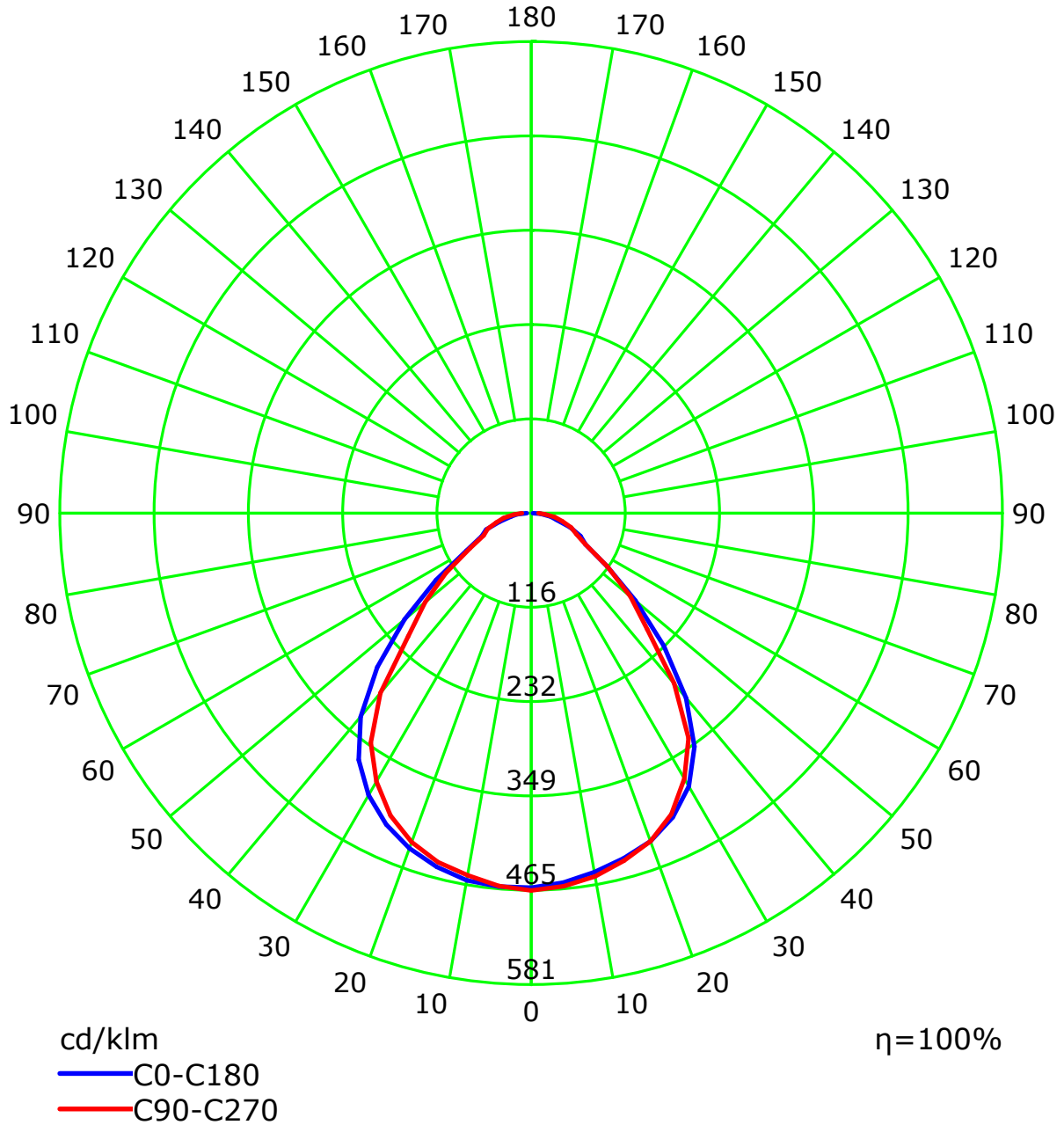
Unit: cd/klm

C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:5.0
Test Device: GPM-1600L
Distance: 7.172 m [K=1.0000]
Humidity:
Inspector:



Luminous Intensity Distribution Curve(cd/klm)



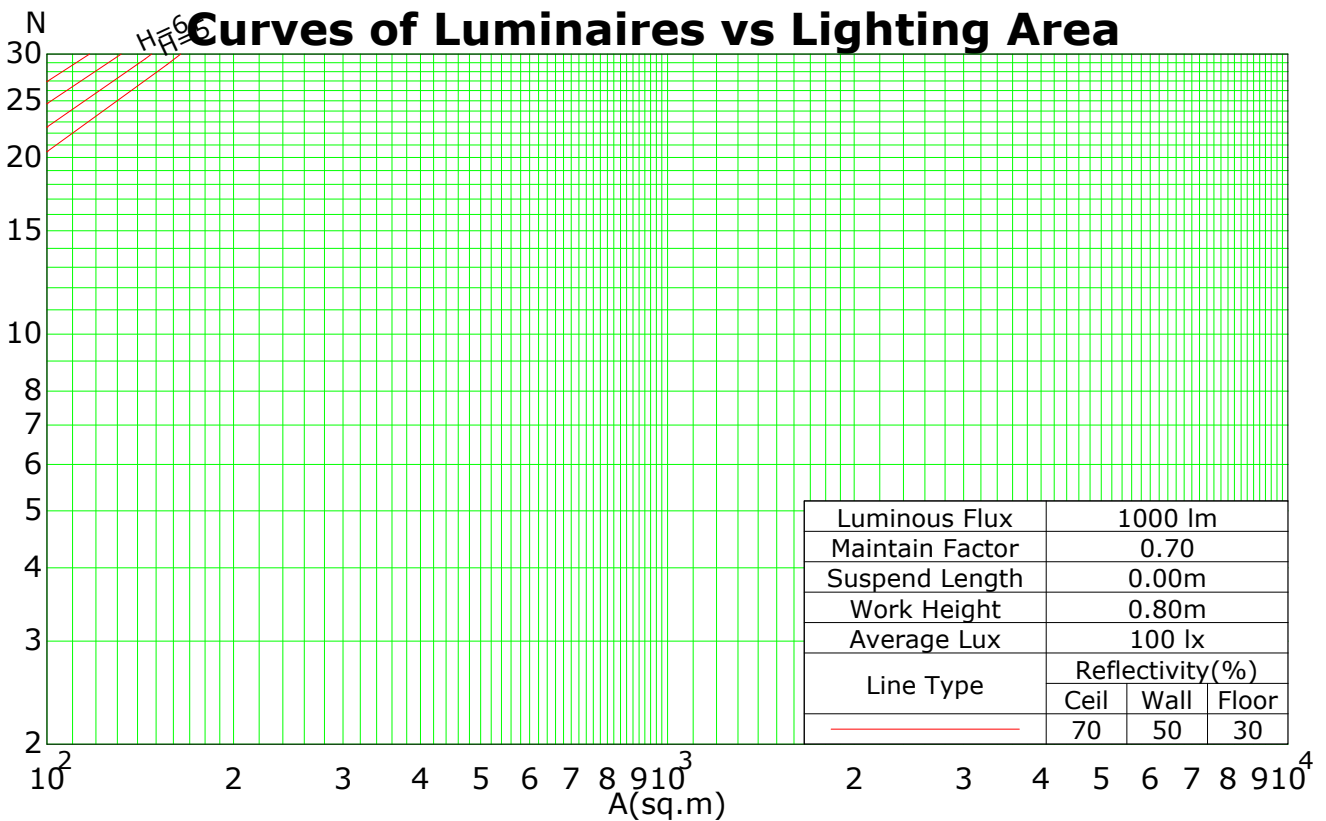
C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:5.0
Test Device: GPM-1600L
Distance: 7.172 m [K=1.0000]
Humidity:
Inspector:

Coefficients Of Utilization - Zonal Cavity Method

RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCCR	RF = 0.2																	
0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.10	1.06	1.02	0.99	1.07	1.04	1.00	0.97	0.99	0.97	0.94	0.95	0.93	0.91	0.92	0.90	0.88	0.86
2	1.01	0.94	0.88	0.83	0.99	0.92	0.87	0.82	0.89	0.84	0.80	0.86	0.82	0.78	0.83	0.79	0.77	0.75
3	0.94	0.84	0.77	0.71	0.91	0.83	0.76	0.70	0.80	0.74	0.69	0.77	0.72	0.68	0.75	0.70	0.67	0.65
4	0.87	0.76	0.68	0.62	0.84	0.74	0.67	0.61	0.72	0.66	0.61	0.70	0.64	0.60	0.68	0.63	0.59	0.57
5	0.80	0.69	0.60	0.54	0.78	0.67	0.60	0.54	0.65	0.59	0.54	0.64	0.58	0.53	0.62	0.57	0.52	0.50
6	0.75	0.62	0.54	0.48	0.73	0.61	0.54	0.48	0.60	0.53	0.48	0.58	0.52	0.47	0.57	0.51	0.47	0.45
7	0.70	0.57	0.49	0.43	0.68	0.56	0.49	0.43	0.55	0.48	0.43	0.53	0.47	0.43	0.52	0.47	0.42	0.40
8	0.65	0.52	0.44	0.39	0.64	0.52	0.44	0.39	0.50	0.44	0.39	0.49	0.43	0.39	0.48	0.43	0.38	0.37
9	0.61	0.48	0.41	0.35	0.60	0.48	0.40	0.35	0.47	0.40	0.35	0.46	0.40	0.35	0.45	0.39	0.35	0.33
10	0.57	0.45	0.37	0.32	0.56	0.44	0.37	0.32	0.43	0.37	0.32	0.42	0.36	0.32	0.42	0.36	0.32	0.30

Spacing Criteria (0-180): 1.26
 Spacing Criteria (90-270): 1.21
 Spacing Criteria (Diagonal): 1.26

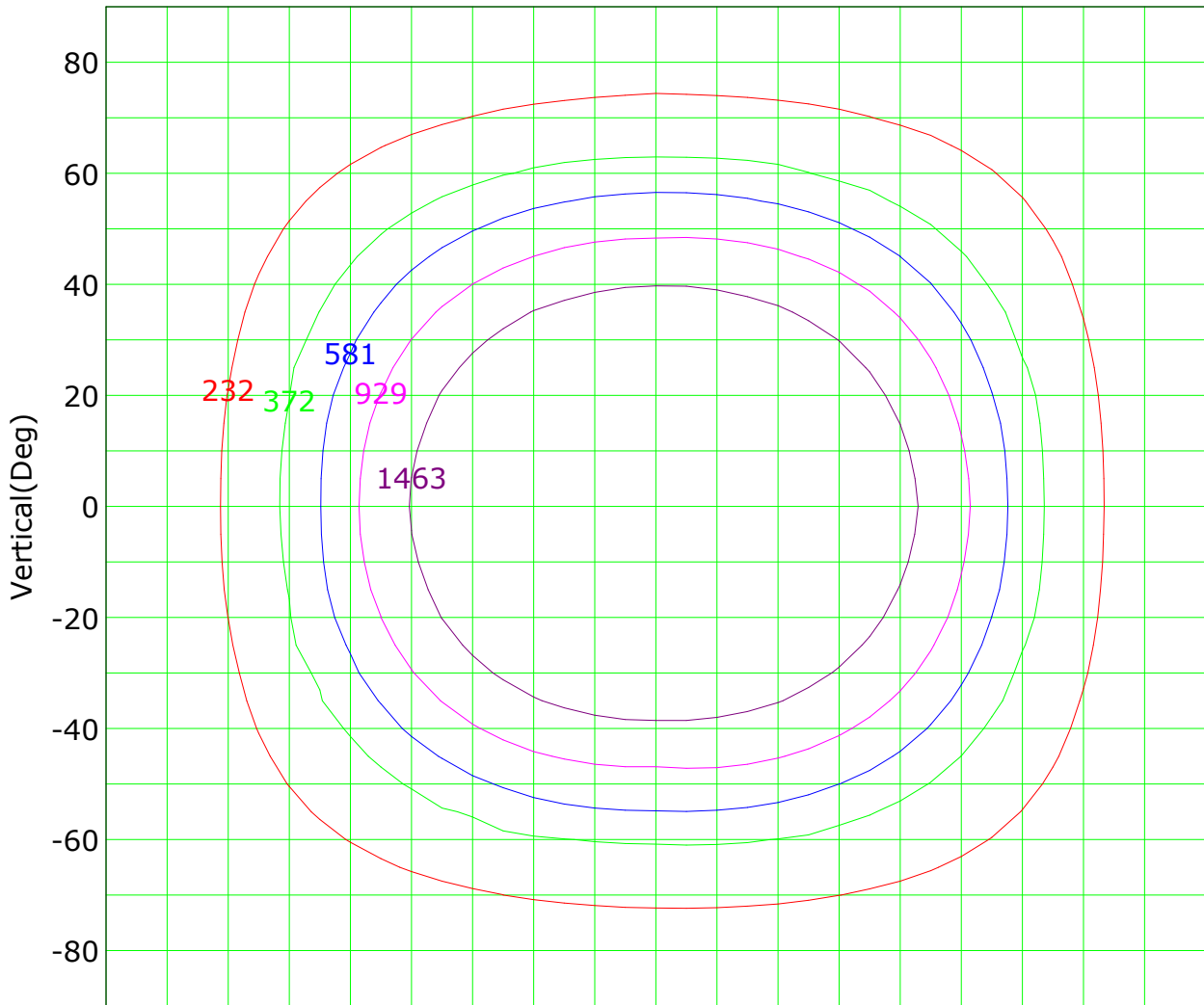


C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-90.0:5.0
 Test Device: GPM-1600L
 Distance: 7.172 m [K=1.0000]
 Humidity:
 Inspector:



Isocandela (rectangle)



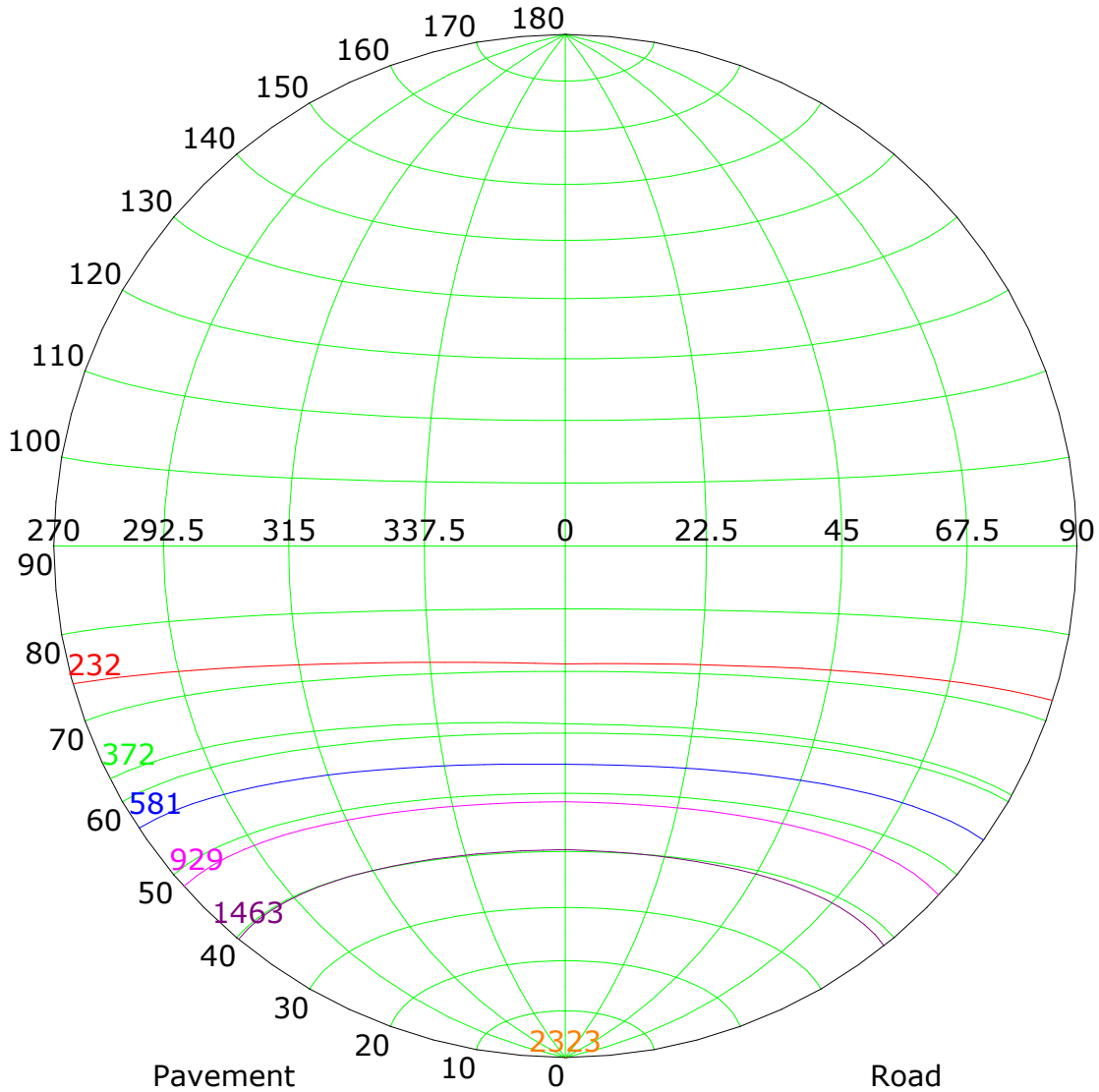
Horizontal(Deg)
Imax (100%): 2323 cd

- (10%): 232 cd
- (16%): 372 cd
- (25%): 581 cd
- (40%): 929 cd
- (63%): 1463 cd
- (100%): 2323 cd

C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:5.0
Test Device: GPM-1600L
Distance: 7.172 m [K=1.0000]
Humidity:
Inspector:

Isocandela (sphere)



Imax (100%): 2323 cd

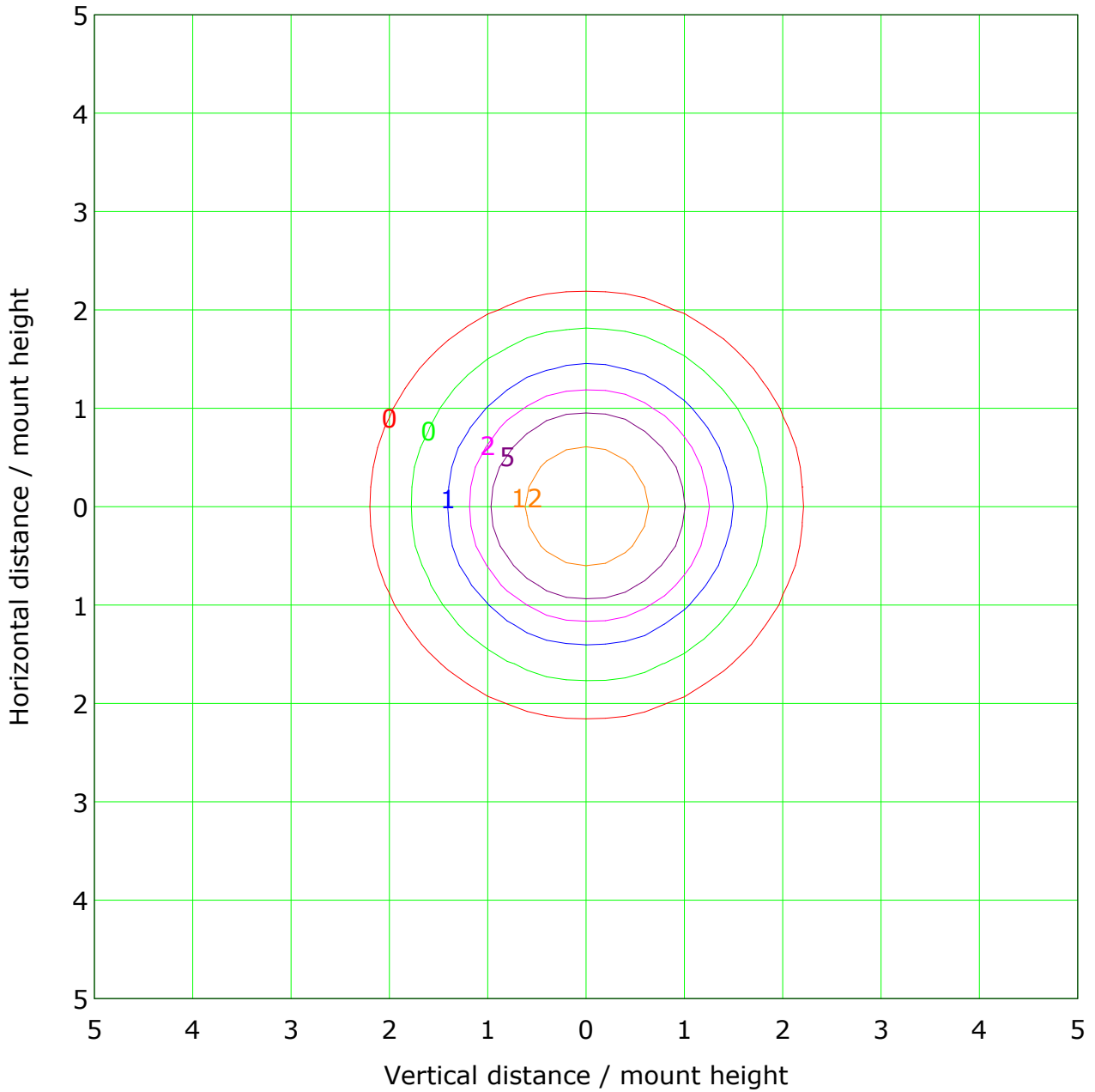
- | | |
|-------------------|-------------------|
| — (10%): 232 cd | — (16%): 372 cd |
| — (25%): 581 cd | — (40%): 929 cd |
| — (63%): 1463 cd | — (100%): 2323 cd |

CIE: narrow - short
 CIE: Non-cut-off luminaire
 Max.At90: 10.267 cd/klm

IES: Non-cut-off
 Max.At80: 80778.750 cd/klm
 Max.80-90: 2858891066808115900000000000.00



IsoLux Plot



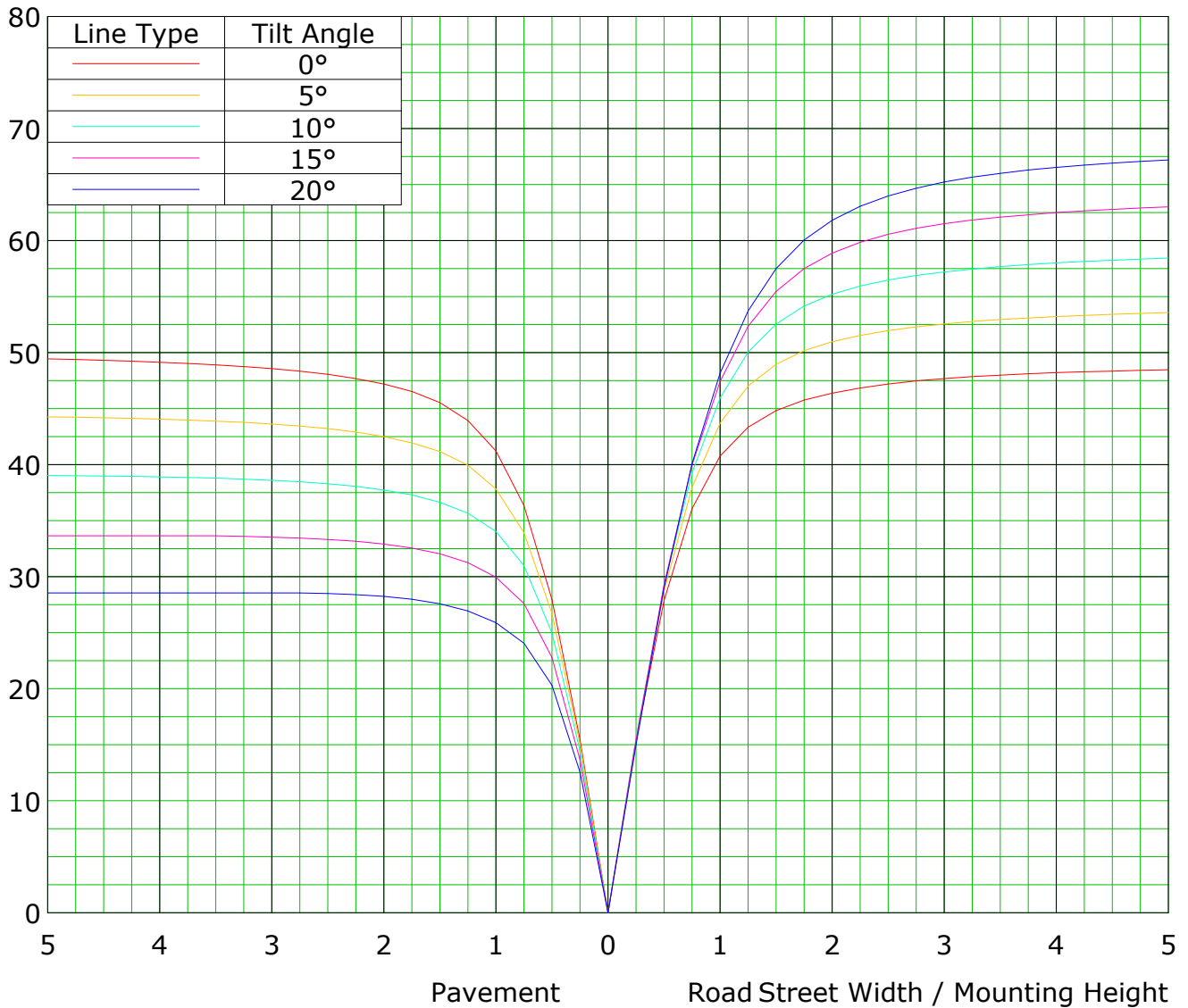
Mounting Height: 10.0m		Max Lux(100%): 23.2 lx	
— (1%):	0.2 lx	— (2%):	0.5 lx
— (5%):	1.2 lx	— (10%):	2.3 lx
— (20%):	4.6 lx	— (50%):	11.6 lx
— (100%):	23.2 lx		

C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:5.0
Test Device: GPM-1600L
Distance: 7.172 m [K=1.0000]
Humidity:
Inspector:

Roadway CU Curve

Efficiency(%)



C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

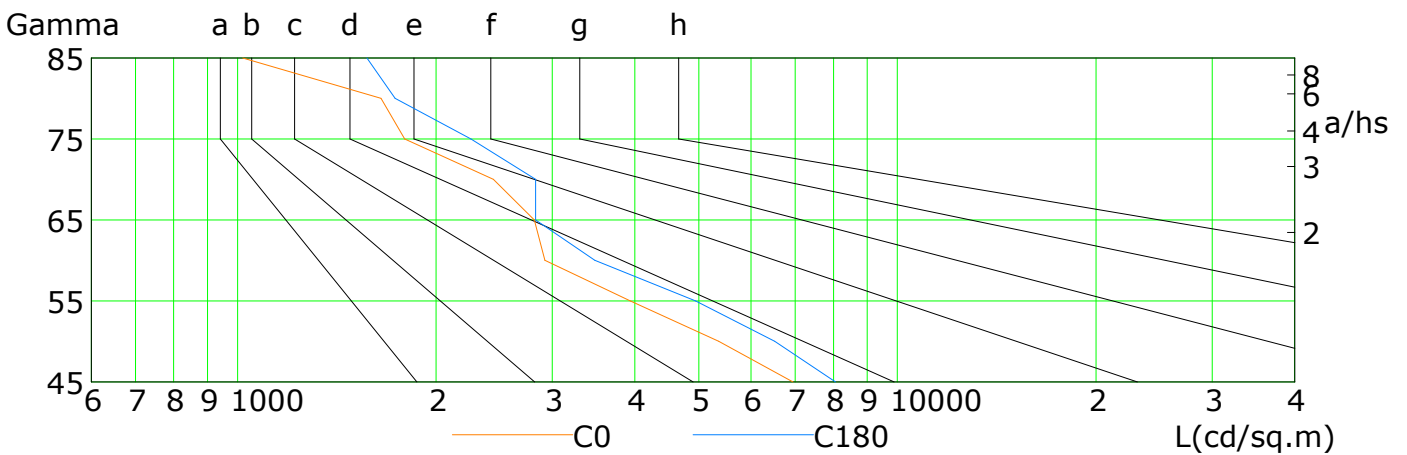
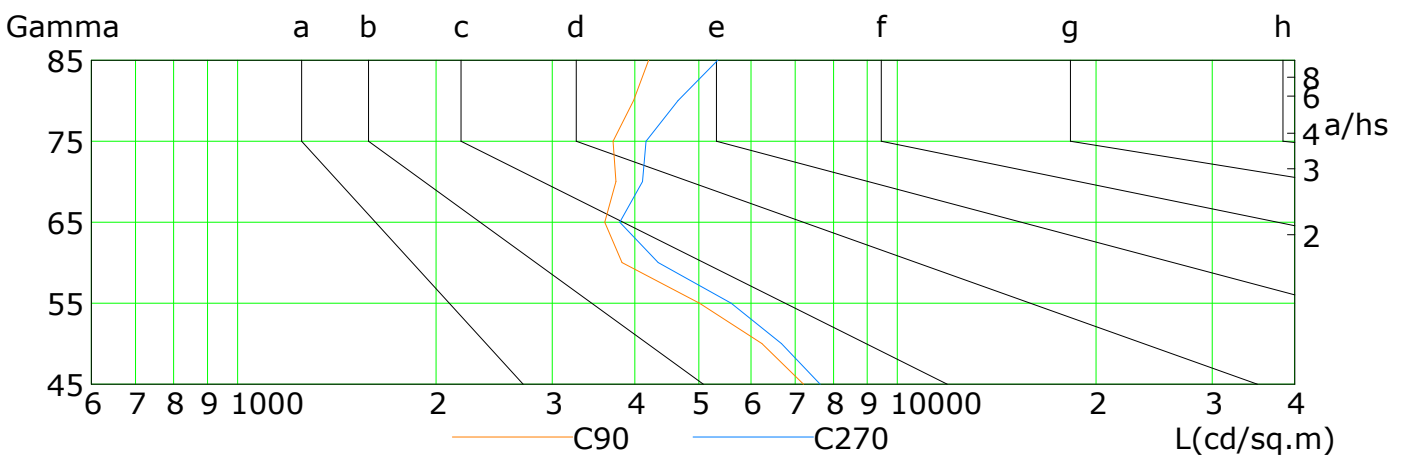
Gamma Plane (°):0.0-90.0:5.0
 Test Device: GPM-1600L
 Distance: 7.172 m [K=1.0000]
 Humidity:
 Inspector:



Lum Limit Curve

Dazzle	Quality	Illuminance (lx)									
		2000	1000	500	<=300						
1.15	A										
1.50	B										
1.85	C										
2.20	D										
2.55	E										

a b c d e f g h

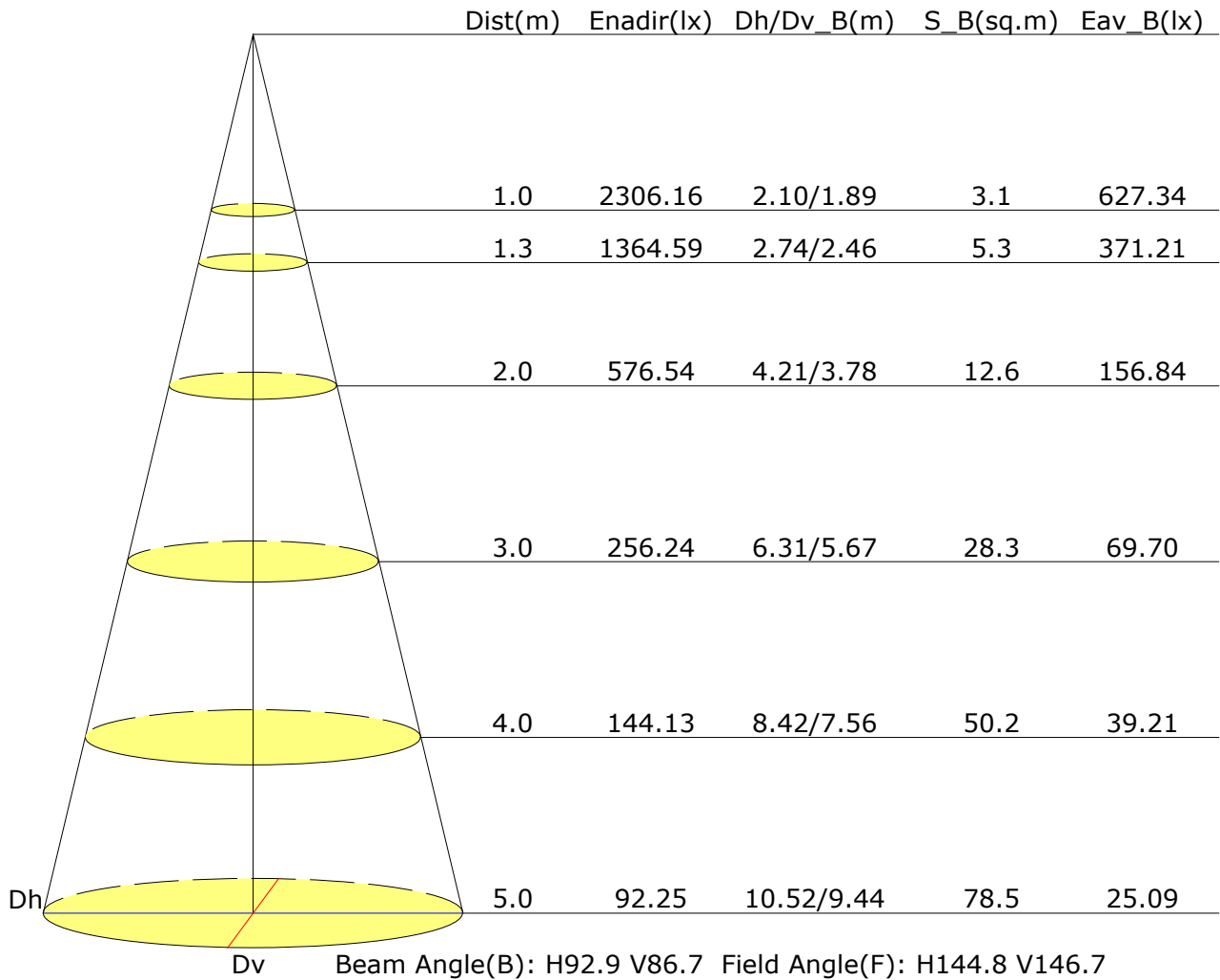


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	6943	5361	3938	2922	2817	2440	1792	1650	1018
C90	7205	6232	5014	3824	3602	3746	3706	3983	4195
C180	8053	6519	4945	3479	2831	2828	2258	1733	1571
C270	7639	6672	5602	4342	3797	4110	4157	4649	5342

C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-90.0:5.0
 Test Device: GPM-1600L
 Distance: 7.172 m [K=1.0000]
 Humidity:
 Inspector:

Illuminance at a Distance

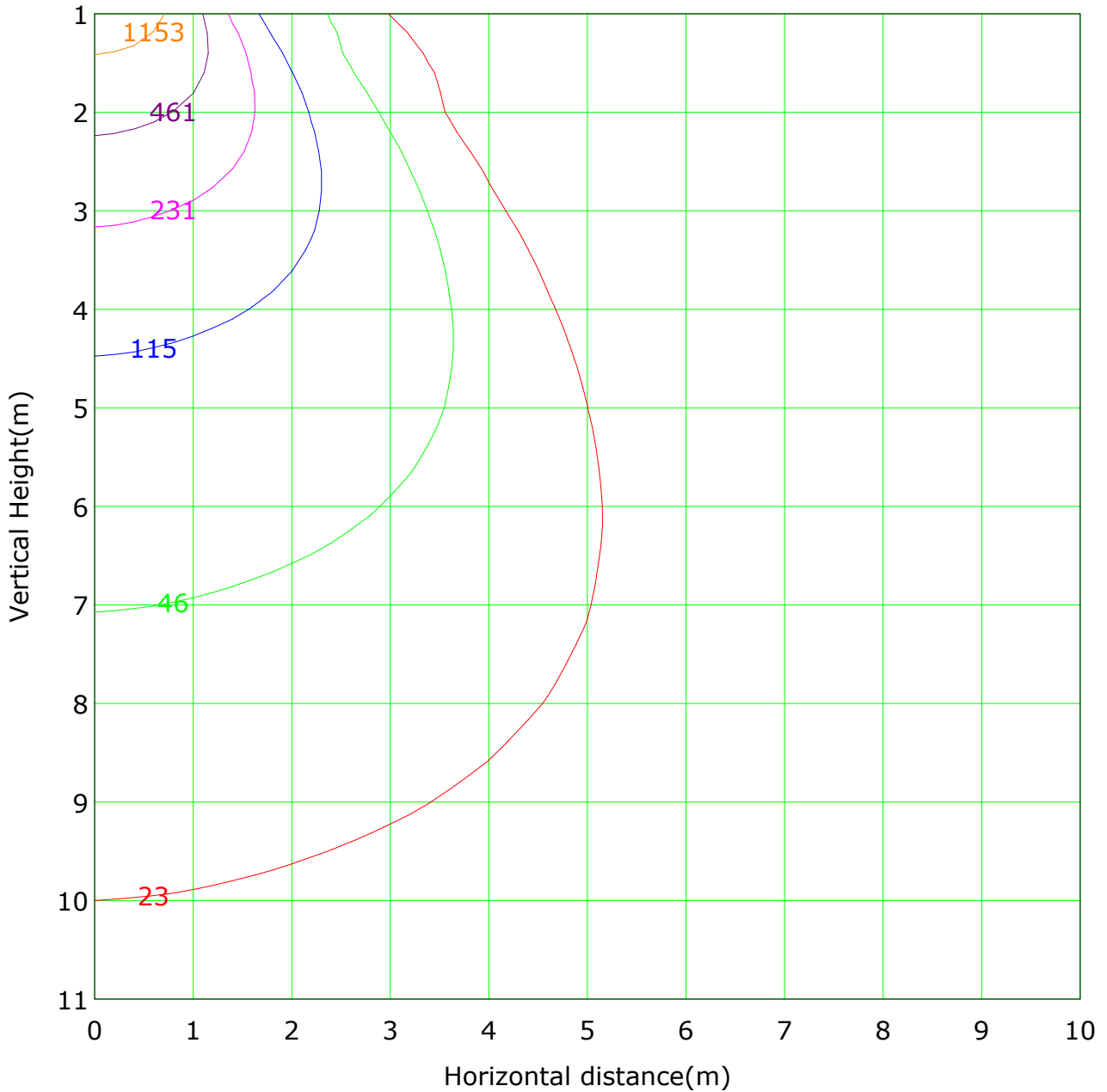


C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-90.0:5.0
 Test Device: GPM-1600L
 Distance: 7.172 m [K=1.0000]
 Humidity:
 Inspector:



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 2306.2 lx
 — (1%): 23.1 lx — (2%): 46.1 lx
 — (5%): 115.3 lx — (10%): 230.6 lx
 — (20%): 461.2 lx — (50%): 1153.1 lx
 — (100%): 2306.2 lx

Area Flux Table

Unit: lm/klm

	-90	0.0	0.1	0.2	0.3	0.4	0.5	0.5	0.6	0.7	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.1	0.0	6.0	0.0	
	-80	0.0	0.1	0.3	0.5	0.7	0.9	1.1	1.3	1.4	1.4	1.2	1.1	0.9	0.6	0.4	0.2	0.1	0.0	12.2	2.8	
	-70	0.0	0.2	0.4	0.7	1.1	1.4	1.7	2.0	2.1	2.1	1.9	1.7	1.4	1.0	0.6	0.4	0.1	0.0	18.7	15.5	
	-60	0.0	0.2	0.5	1.0	1.4	2.0	2.8	3.5	3.9	3.8	3.4	2.7	1.9	1.4	0.9	0.4	0.2	0.0	30.2	28.6	
	-50	0.0	0.2	0.6	1.2	2.0	3.5	5.0	6.2	6.8	6.7	5.9	4.7	3.2	1.9	1.1	0.6	0.2	0.0	49.8	48.8	
	-40	0.0	0.3	0.7	1.5	3.1	5.3	7.6	9.5	10.3	10.2	9.2	7.2	4.8	2.7	1.3	0.7	0.2	0.0	74.9	74.2	
	-30	0.1	0.3	0.8	1.9	4.2	7.2	9.8	11.6	12.4	12.3	11.4	9.5	6.6	3.6	1.6	0.8	0.3	0.0	94.5	93.9	
	-20	0.1	0.3	0.9	2.3	5.1	8.4	11.0	12.7	13.4	13.4	12.5	10.8	8.0	4.5	1.9	0.8	0.3	0.0	106.3	105.8	
	-10	0.1	0.3	0.9	2.5	5.7	9.1	11.5	13.2	13.9	13.8	12.9	11.3	8.6	4.9	2.1	0.9	0.3	0.0	112.0	111.5	
	0	0.1	0.3	0.9	2.5	5.6	9.0	11.5	13.1	13.9	13.8	12.9	11.3	8.6	4.9	2.1	0.9	0.3	0.0	111.9	111.4	
	10	0.1	0.3	0.9	2.3	5.1	8.4	11.0	12.6	13.4	13.3	12.5	10.7	7.9	4.4	1.9	0.8	0.3	0.0	105.9	105.4	
	20	0.1	0.3	0.8	1.9	4.1	7.0	9.7	11.5	12.3	12.3	11.4	9.4	6.5	3.6	1.6	0.8	0.3	0.0	93.6	93.0	
	30	0.0	0.3	0.7	1.4	3.0	5.2	7.4	9.2	10.1	10.0	9.0	7.0	4.7	2.6	1.3	0.7	0.2	0.0	73.0	72.3	
	40	0.0	0.2	0.6	1.1	2.0	3.4	4.8	5.9	6.4	6.3	5.7	4.5	3.0	1.8	1.1	0.6	0.2	0.0	47.6	46.5	
	50	0.0	0.2	0.5	0.9	1.4	1.9	2.6	3.3	3.6	3.5	3.1	2.5	1.8	1.3	0.9	0.4	0.2	0.0	28.2	26.5	
	60	0.0	0.2	0.4	0.7	1.0	1.4	1.6	1.8	1.9	1.9	1.8	1.6	1.3	0.9	0.6	0.3	0.1	0.0	17.6	14.0	
	70	0.0	0.1	0.3	0.4	0.6	0.8	1.0	1.2	1.2	1.2	1.1	1.0	0.8	0.6	0.4	0.2	0.1	0.0	11.1	1.3	
	80	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.5	0.6	0.5	0.5	0.4	0.4	0.3	0.2	0.1	0.0	0.0	5.2	0.0	
Flux(T)	90	0.7	4.1	10.6	23.2	46.9	75.9	101.6	119.5	128.2	127.3	117.2	97.9	70.7	41.4	20.2	9.6	3.4	0.5	999		
Flux(E)	90	0.0	0.8	7.7	20.5	44.1	73.2	98.8	116.8	125.3	124.4	114.3	95.1	67.8	38.5	17.3	6.4	0.2	0.0		951	
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)

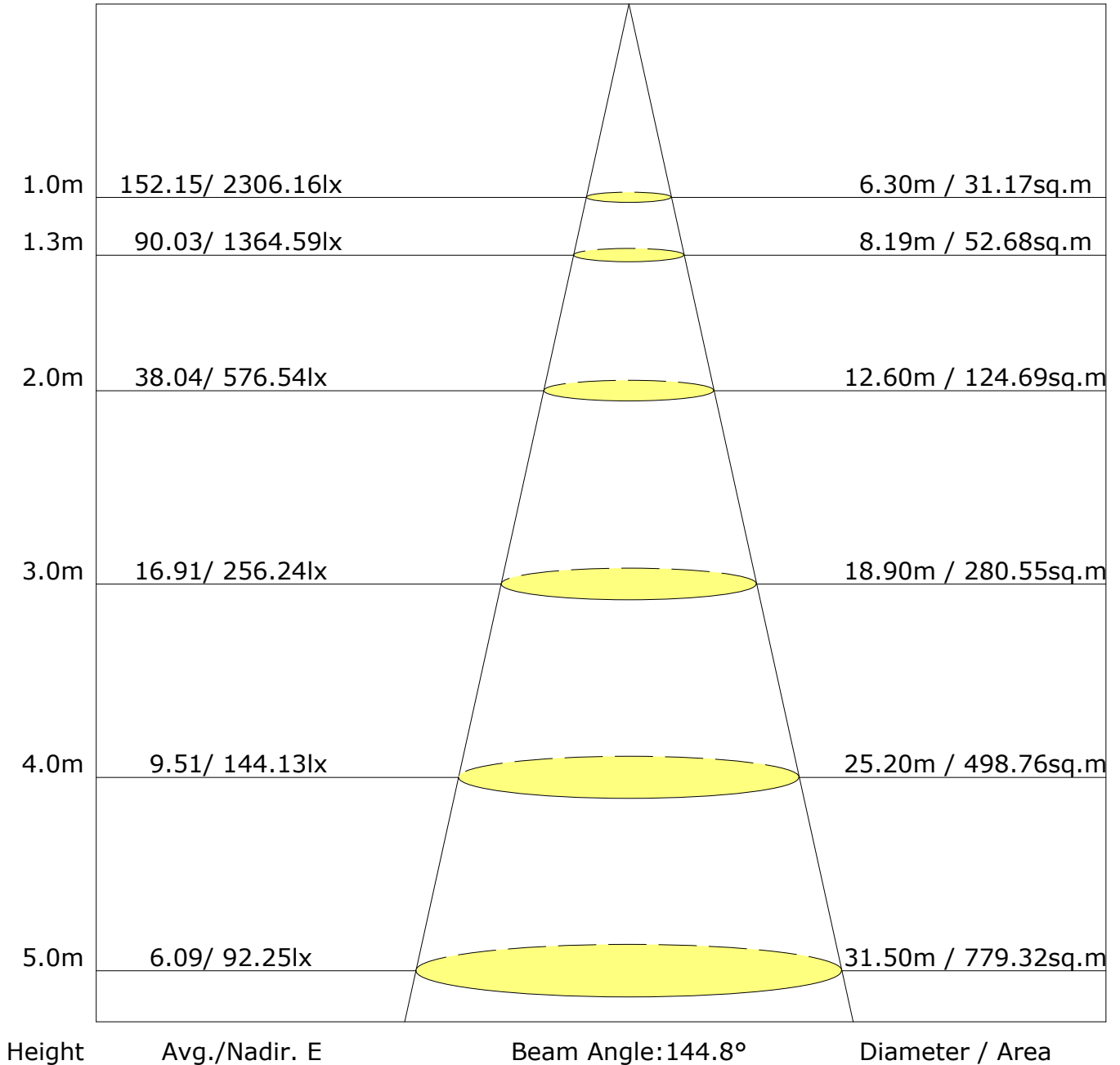
Gamma Plane (°): 0.0-90.0: 5.0
 Test Device: GPM-1600L
 Distance: 7.172 m [K=1.0000]
 Humidity:
 Inspector:

C Plane (°): 0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:



The Average Illuminance Effective Figure

Flux Out: 4742.96lm



C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:5.0
Test Device: GPM-1600L
Distance: 7.172 m [K=1.0000]
Humidity:
Inspector:

UGR Table

Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	16.9	18.1	17.1	18.3	18.6	17.3	18.5	17.6	18.7	19.0
3H	17.6	18.7	17.9	19.0	19.3	18.2	19.3	18.5	19.6	19.8
4H	17.9	18.9	18.2	19.2	19.5	18.7	19.8	19.0	20.0	20.3
6H	18.1	19.1	18.4	19.4	19.7	19.3	20.2	19.6	20.5	20.9
8H	18.2	19.1	18.5	19.4	19.8	19.5	20.5	19.9	20.8	21.1
12H	18.2	19.1	18.6	19.4	19.8	19.7	20.7	20.1	21.0	21.3
X=4H Y=2H	17.2	18.2	17.5	18.5	18.8	17.5	18.6	17.8	18.8	19.1
3H	18.1	19.0	18.5	19.4	19.7	18.7	19.6	19.0	19.9	20.2
4H	18.5	19.3	18.9	19.7	20.0	19.3	20.1	19.7	20.5	20.9
6H	18.9	19.6	19.3	20.0	20.4	20.0	20.8	20.4	21.1	21.5
8H	19.0	19.7	19.4	20.0	20.5	20.4	21.0	20.8	21.4	21.9
12H	19.1	19.7	19.5	20.1	20.5	20.7	21.3	21.1	21.7	22.1
X=8H Y=4H	18.7	19.4	19.2	19.8	20.2	19.5	20.1	19.9	20.5	21.0
6H	19.2	19.8	19.7	20.2	20.7	20.3	20.9	20.8	21.3	21.8
8H	19.4	19.9	19.9	20.4	20.8	20.8	21.2	21.3	21.7	22.2
12H	19.6	20.0	20.1	20.4	20.9	21.2	21.6	21.7	22.1	22.6
X=12H Y=4H	18.8	19.4	19.2	19.8	20.2	19.5	20.1	19.9	20.5	20.9
6H	19.3	19.8	19.8	20.2	20.7	20.4	20.8	20.9	21.3	21.8
8H	19.5	20.0	20.0	20.4	20.9	20.8	21.3	21.3	21.7	22.2
Variations with the observer position at spacings:										
S=1.0H	+0.4/-0.6					+0.3/-0.4				
S=1.5H	+1.0/-1.4					+0.7/-1.0				
S=2.0H	+1.9/-1.6					+1.5/-1.5				

Calculate in accordance with CIE Pub.117. The table is revised with 4990lm ($8\log(F/F_0) = 5.6$).

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.25									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.66	0.75	0.81	0.86	0.92	0.96	0.99	1.03	1.05	
	0.30		0.59	0.68	0.75	0.80	0.87	0.91	0.95	0.99	1.02	
	0.20		0.54	0.64	0.70	0.75	0.83	0.88	0.91	0.96	0.99	
0.50	0.50	0.20	0.64	0.73	0.79	0.83	0.89	0.93	0.95	0.99	1.01	
	0.30		0.58	0.67	0.74	0.78	0.85	0.89	0.92	0.96	0.99	
	0.20		0.54	0.63	0.69	0.74	0.81	0.86	0.89	0.93	0.96	
0.30	0.50	0.20	0.63	0.71	0.77	0.81	0.86	0.90	0.92	0.95	0.97	
	0.30		0.57	0.66	0.72	0.77	0.83	0.87	0.89	0.93	0.95	
	0.20		0.53	0.62	0.69	0.73	0.79	0.84	0.87	0.91	0.93	
0.00	0.00	0.00	0.51	0.60	0.66	0.70	0.76	0.80	0.83	0.86	0.89	
Rating:41W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 1.25									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.86	0.70	0.59	0.51	0.41	0.34	0.29	0.23	0.19	
	0.30		0.72	0.60	0.52	0.45	0.37	0.31	0.27	0.21	0.18	
	0.20		0.61	0.52	0.46	0.41	0.34	0.29	0.25	0.20	0.17	
0.50	0.50	0.20	0.83	0.67	0.56	0.49	0.39	0.36	0.28	0.21	0.18	
	0.30		0.70	0.58	0.50	0.44	0.36	0.30	0.26	0.20	0.17	
	0.20		0.61	0.51	0.45	0.40	0.33	0.28	0.24	0.19	0.16	
0.30	0.50	0.20	0.80	0.64	0.54	0.47	0.37	0.31	0.26	0.20	0.17	
	0.30		0.68	0.56	0.48	0.42	0.34	0.29	0.25	0.19	0.16	
	0.20		0.60	0.50	0.44	0.39	0.32	0.27	0.23	0.18	0.15	
0.00	0.00	0.00	0.49	0.40	0.34	0.30	0.24	0.20	0.17	0.13	0.11	
Rating:41W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.25								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17
0.50	0.50	0.20	0.15	0.16	0.17	0.17	0.18	0.19	0.20	0.20	0.20
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.07	0.08	0.10	0.11	0.13	0.14	0.16	0.17
0.30	0.50	0.20	0.14	0.15	0.16	0.17	0.18	0.18	0.19	0.19	0.20
	0.30		0.09	0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.18
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.15	0.16
0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA
Rating:41W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											

Zonal Lumen (Continue 1)

cone flux(90°): 3369.76 lm

%lum = 67.5%
%lamp = 67.5%

cone flux(120°): 4346.79 lm

%lum = 87.1%
%lamp = 87.1%

LED Average Luminance Report

Avg.L	cd/m ²
L 0-180(65) av	4081.27
L 0-180(75) av	3594.04
L 0-180(85) av	4367.66
L 90-270(65) av	3842.65
L 90-270(75) av	4195.98
L 90-270(85) av	5749.51
L 45(65) av	3961.96
L 45(75) av	3895.01
L 45(85) av	5058.59

Standard: GB/T 29293-2012