Report No.:

Test Time: 2026-01-12 16:31

Luminaire Property

Luminaire Manufacturer:
Luminaire Category:
Lamp Catalog: 4000K
Number of Lamps:
Luminous Length (mm): 600
Luminous Height (mm): 27
Current: 0.0900 A
Power Factor: 0.9640

Luminaire Description:
Lamp Description:
Lumens per Lamp:
Luminous Width (mm): 130
Voltage: 232.10 V
Power: 20.18 W

Photometric Results

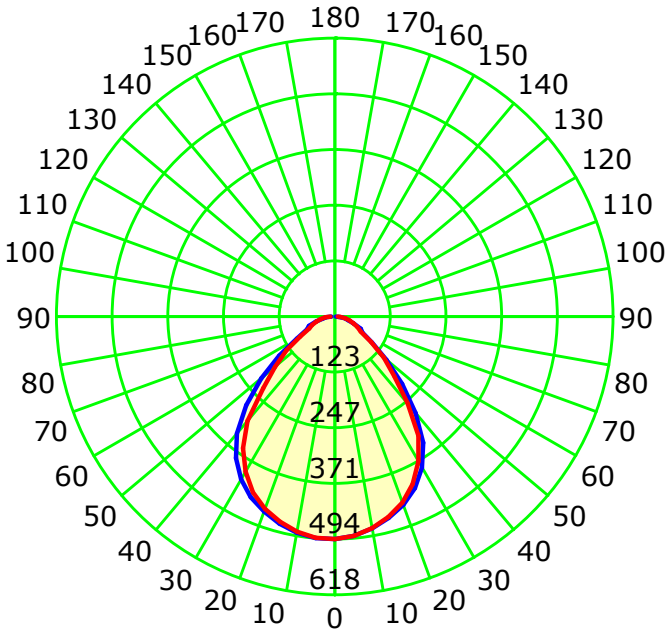
CIE Class: Direct
Measurement Flux: 2446.1 lm
Downward Ratio: 100%
Horizontal Diffuse Angle(50%): H89.8
Vertical Diffuse Angle(50%): V83.9
Luminous Efficacy (lm/w): 121.21
Max. Intensity: 494.84 cd/klm
S/MH(C0/C180): 1.21

Total Rated Lamp Lumens: 2446.1 lm
Efficiency: 100%
Upward Ratio: 0%

C0r0 Intensity: 494.54 cd/klm
Pos of Max. Intensity: H90 V0
S/MH(C90/C270): 1.16

Picture Of Luminaire

Luminous Intensity Distribution Curve



Unit: cd/klm

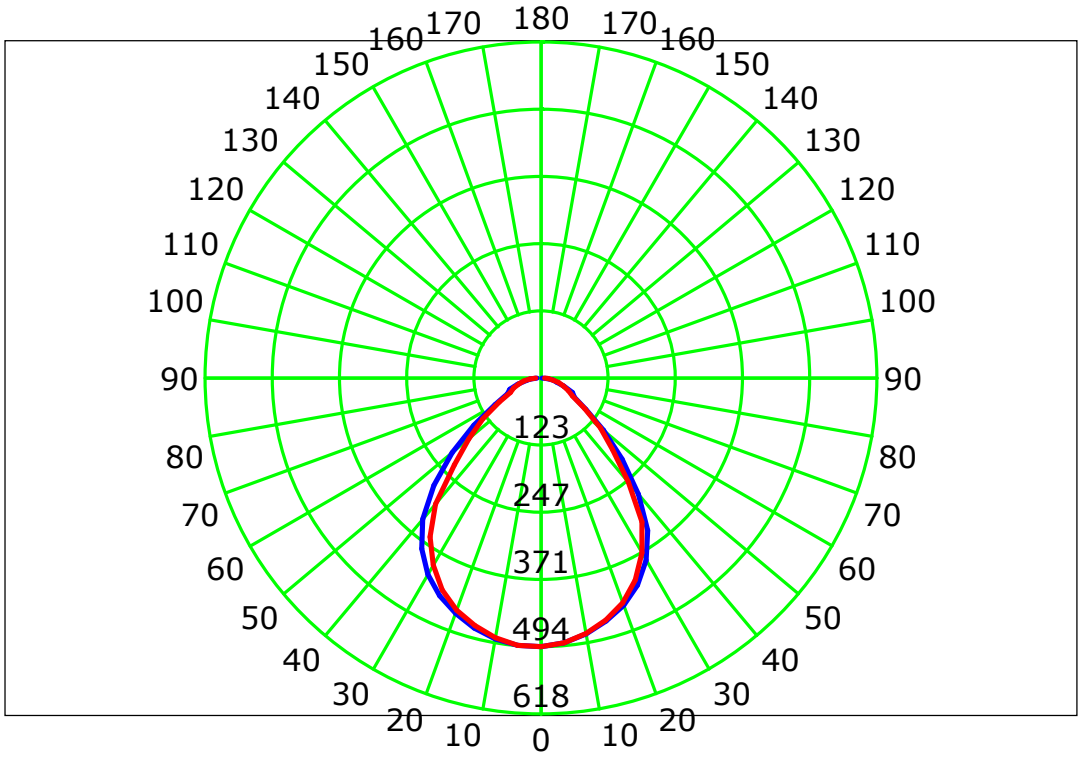
Average Diffuse Angle(50%): 86.9°

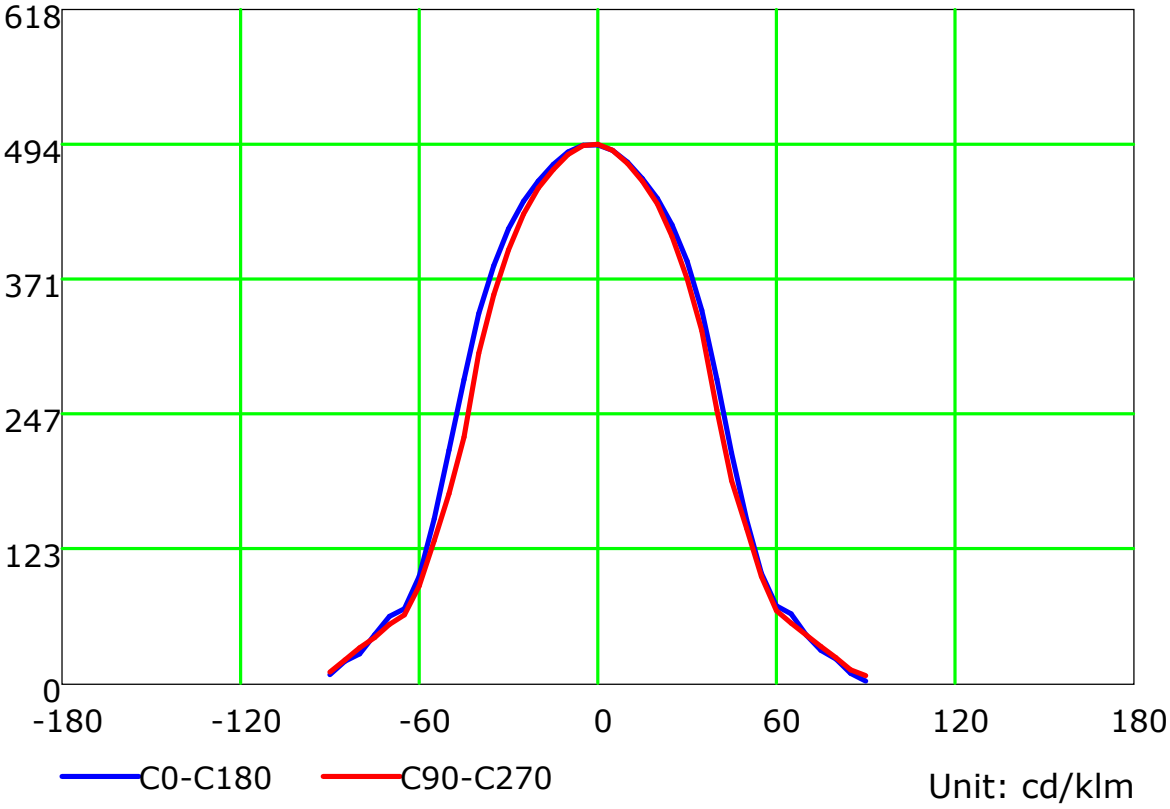
C0-C180 C90-C270

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

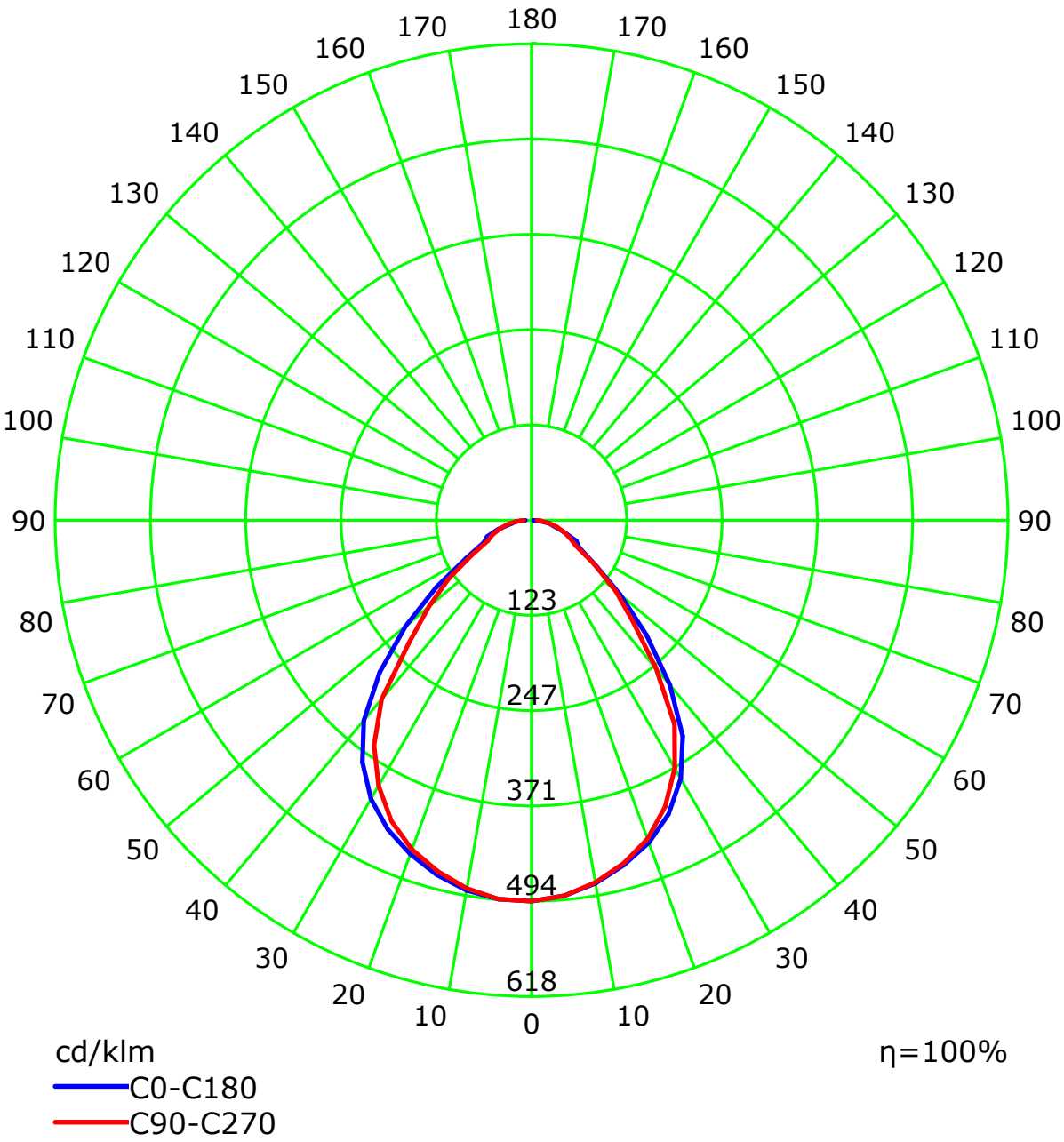




C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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:

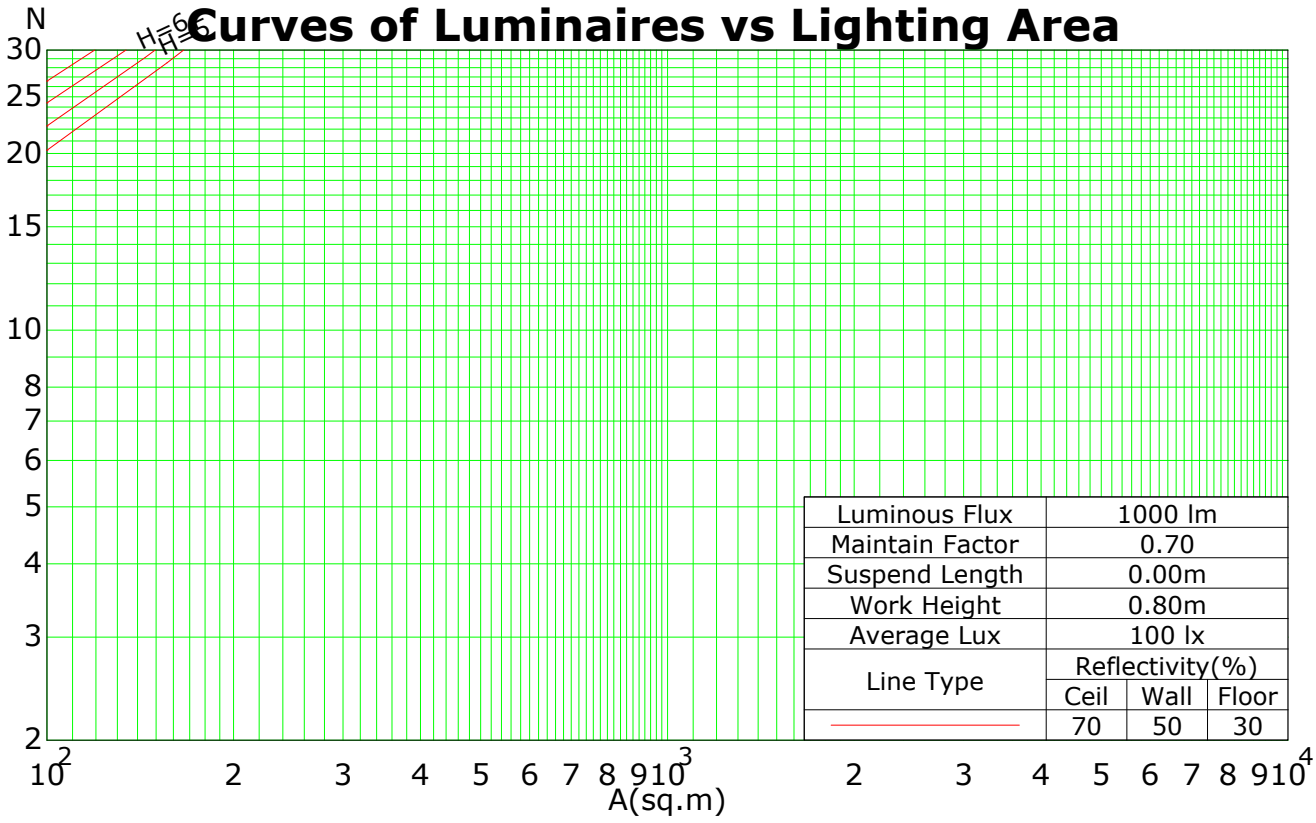
Gamma Plane (°):0.0-90.0:5.0
Test Device: GPM-1600L
Distance: 7.172 m [K=1.0000]
Humidity:
Inspector:

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
RCR	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	1.08	1.04	1.00	0.97	1.00	0.97	0.94	0.96	0.94	0.91	0.92	0.90	0.89	0.87
2	1.02	0.95	0.89	0.84	0.99	0.93	0.87	0.83	0.89	0.85	0.81	0.86	0.82	0.79	0.83	0.80	0.77	0.75
3	0.94	0.85	0.78	0.72	0.92	0.83	0.77	0.71	0.80	0.75	0.70	0.78	0.73	0.69	0.75	0.71	0.68	0.66
4	0.87	0.76	0.69	0.63	0.85	0.75	0.68	0.62	0.73	0.66	0.61	0.70	0.65	0.61	0.68	0.64	0.60	0.58
5	0.81	0.69	0.61	0.55	0.79	0.68	0.61	0.55	0.66	0.59	0.54	0.64	0.58	0.54	0.62	0.57	0.53	0.51
6	0.75	0.63	0.55	0.49	0.73	0.62	0.55	0.49	0.60	0.54	0.49	0.59	0.53	0.48	0.57	0.52	0.48	0.46
7	0.70	0.58	0.50	0.44	0.69	0.57	0.49	0.44	0.56	0.49	0.44	0.54	0.48	0.43	0.53	0.47	0.43	0.41
8	0.66	0.53	0.45	0.40	0.64	0.53	0.45	0.40	0.51	0.44	0.40	0.50	0.44	0.39	0.49	0.43	0.39	0.37
9	0.62	0.49	0.42	0.36	0.60	0.49	0.41	0.36	0.47	0.41	0.36	0.46	0.40	0.36	0.45	0.40	0.36	0.34
10	0.58	0.46	0.38	0.33	0.57	0.45	0.38	0.33	0.44	0.38	0.33	0.43	0.37	0.33	0.42	0.37	0.33	0.31

Spacing Criteria (0-180): 1.21
Spacing Criteria (90-270): 1.16
Spacing Criteria (Diagonal): 1.22

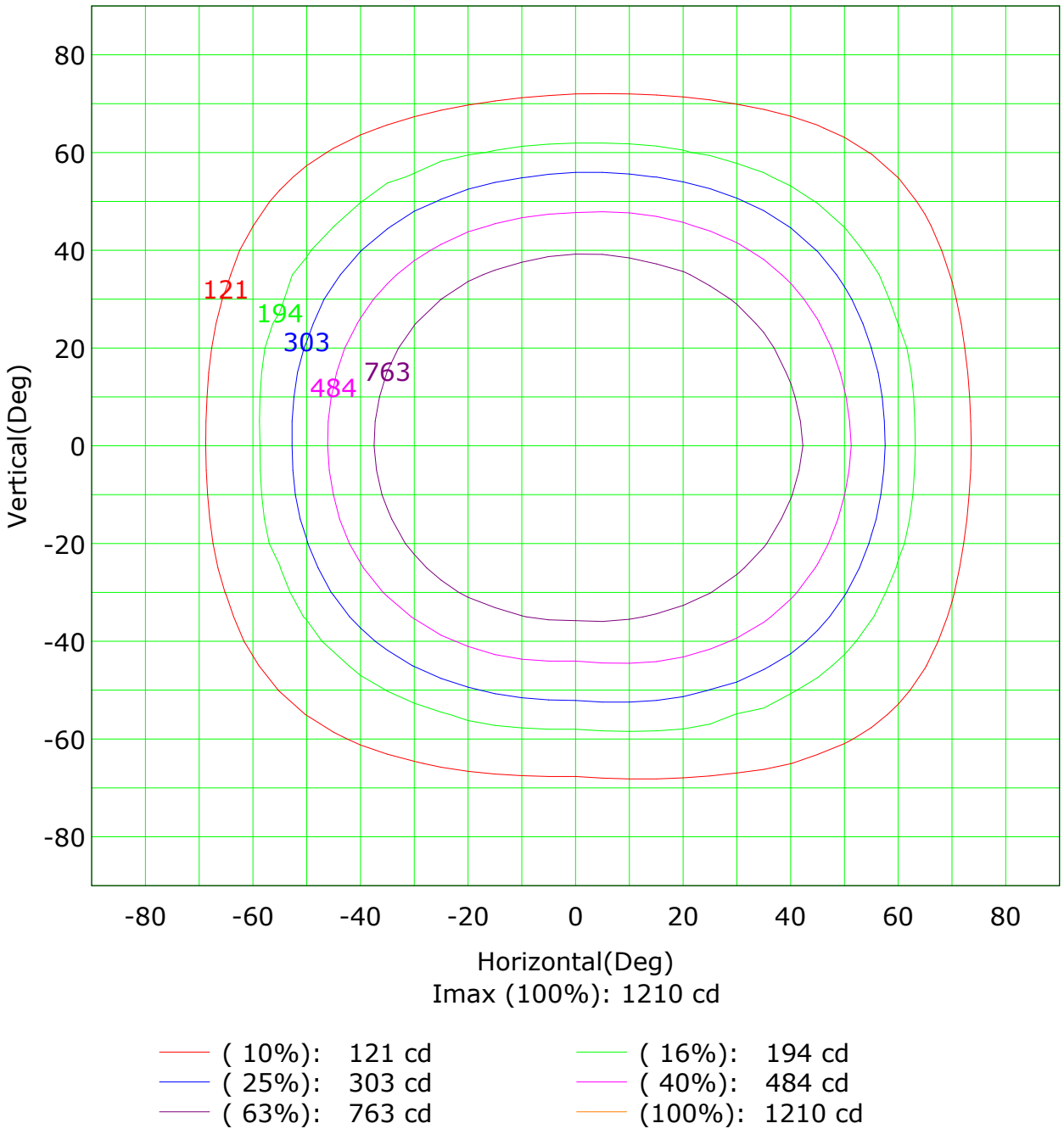
Curves of Luminaires vs Lighting Area



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:

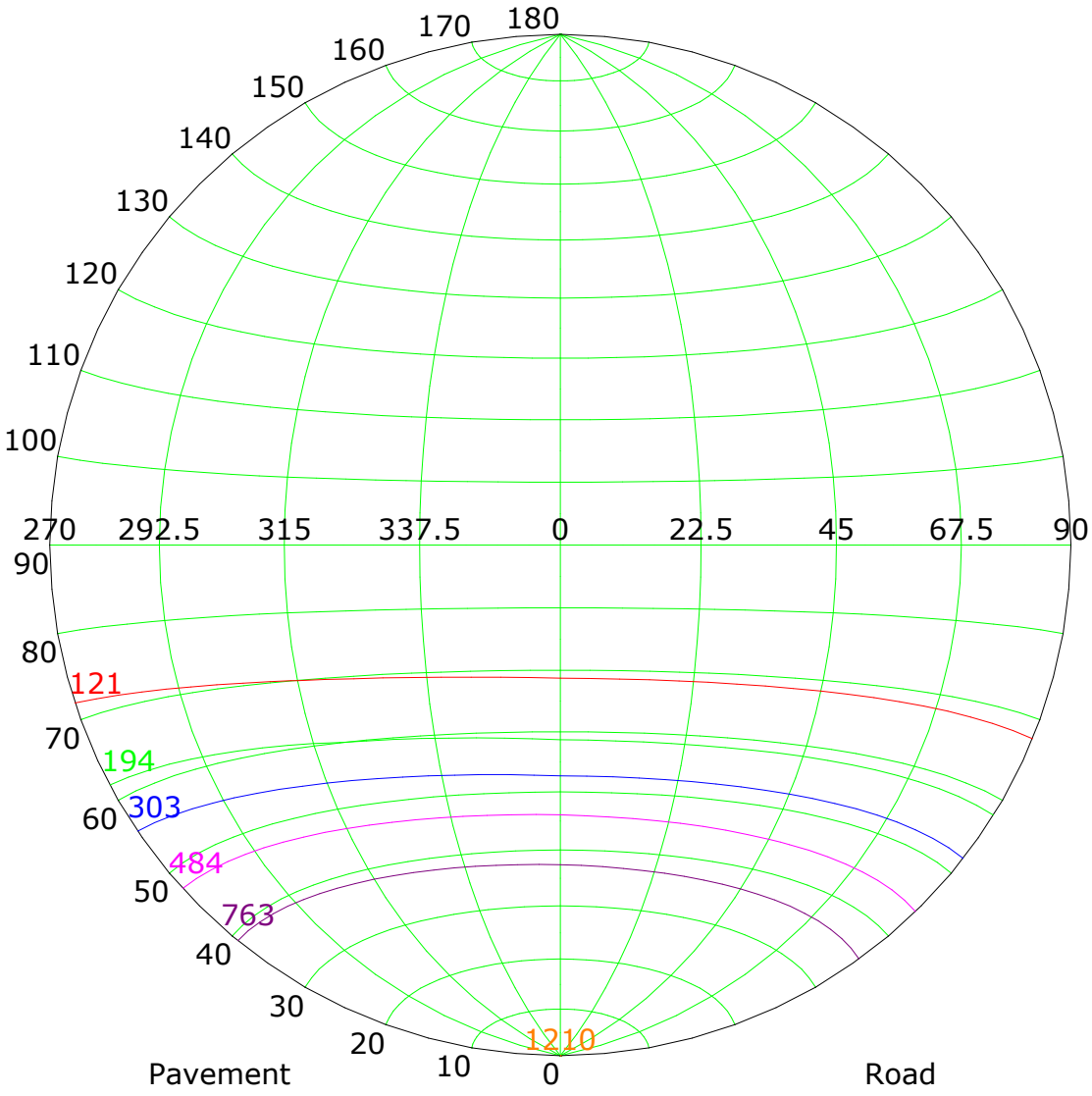
Isocandela (rectangle)



(10%): 121 cd
(16%): 194 cd
(25%): 303 cd
(40%): 484 cd
(63%): 763 cd
(100%): 1210 cd

C Plane (°):0.0-360.0: 90.0
Gamma Plane (°):0.0-90.0:5.0
Test Lab:
Test Device: GPM-1600L
Test Type: TYPE C
Distance: 7.172 m [K=1.0000]
Temperature:
Humidity:
Operator:
Inspector:

Isocandela (sphere)



Imax (100%): 1210 cd

(10%): 121 cd
(16%): 194 cd
(25%): 303 cd
(40%): 484 cd
(63%): 763 cd
(100%): 1210 cd

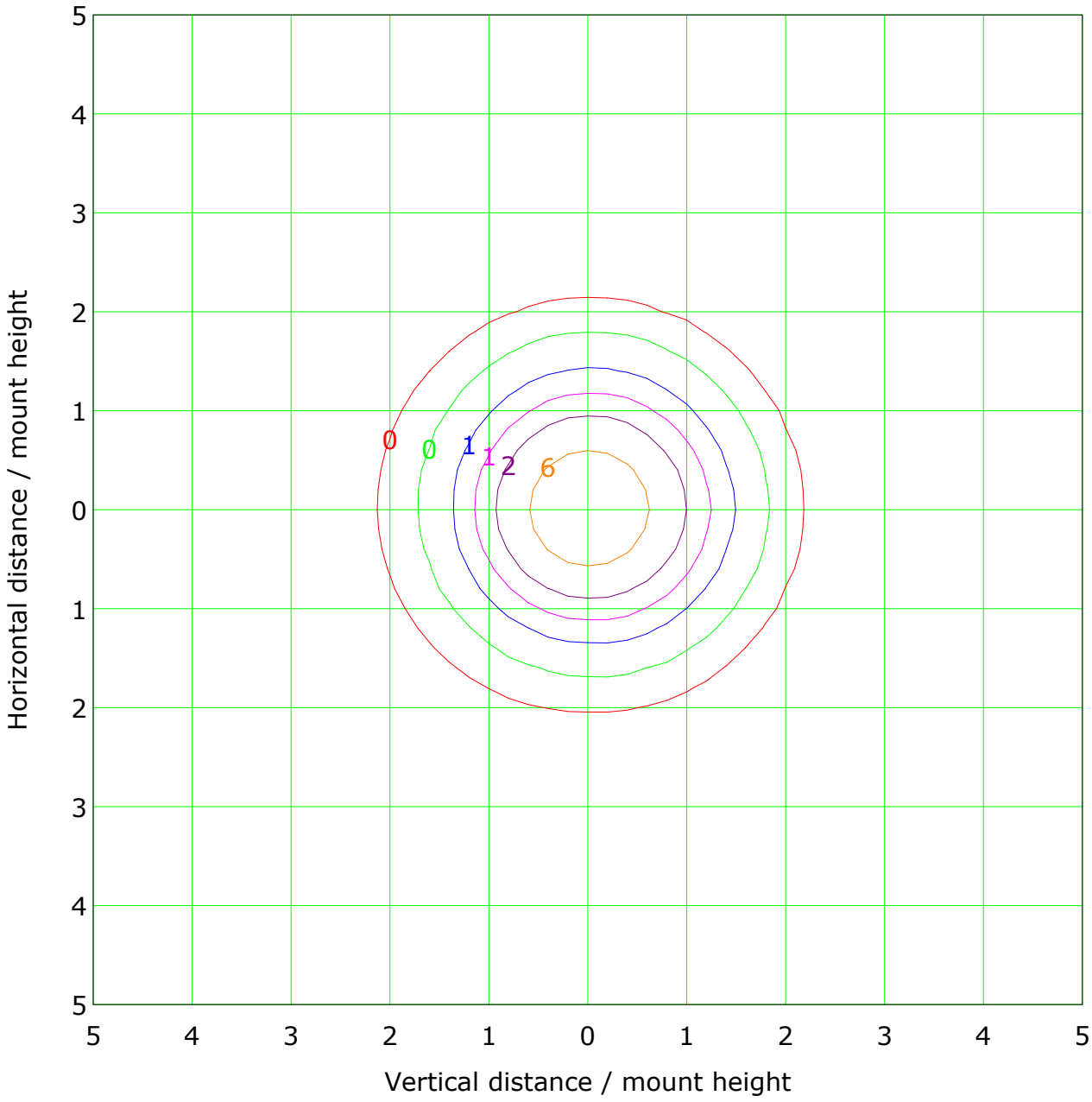
CIE: narrow - short
CIE: Non-cut-off luminaire
Max.At90: 18.224 cd/klm

IES: Semi-cut-off
Max.At80: 182.050 cd/klm
Max.80-90: 146015841.363 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:

IsoLux Plot



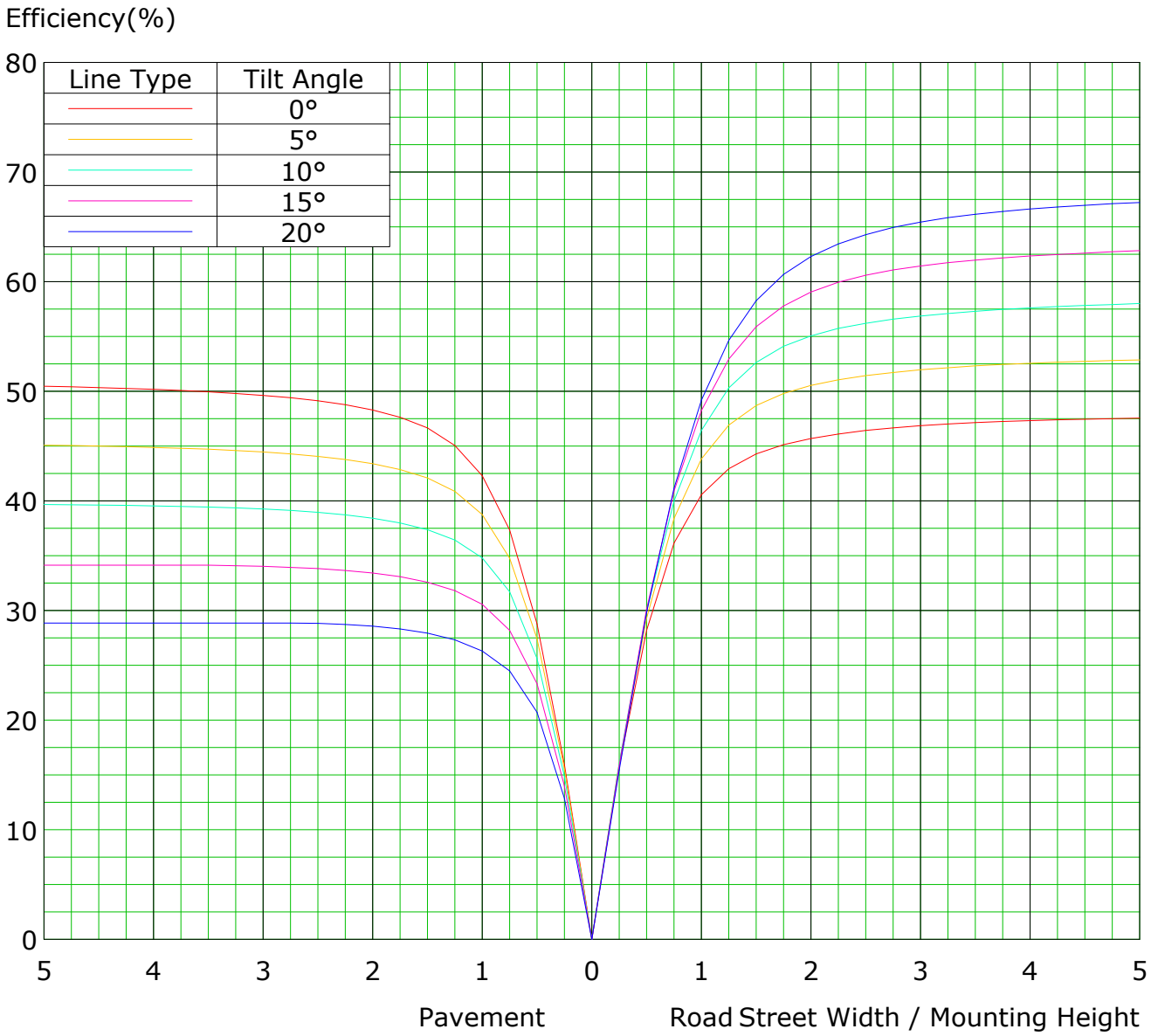
Mounting Height: 10.0m Max Lux(100%): 12.1 lx

(1%): 0.1 lx
(2%): 0.2 lx
(5%): 0.6 lx
(10%): 1.2 lx
(20%): 2.4 lx
(50%): 6.1 lx
(100%): 12.1 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

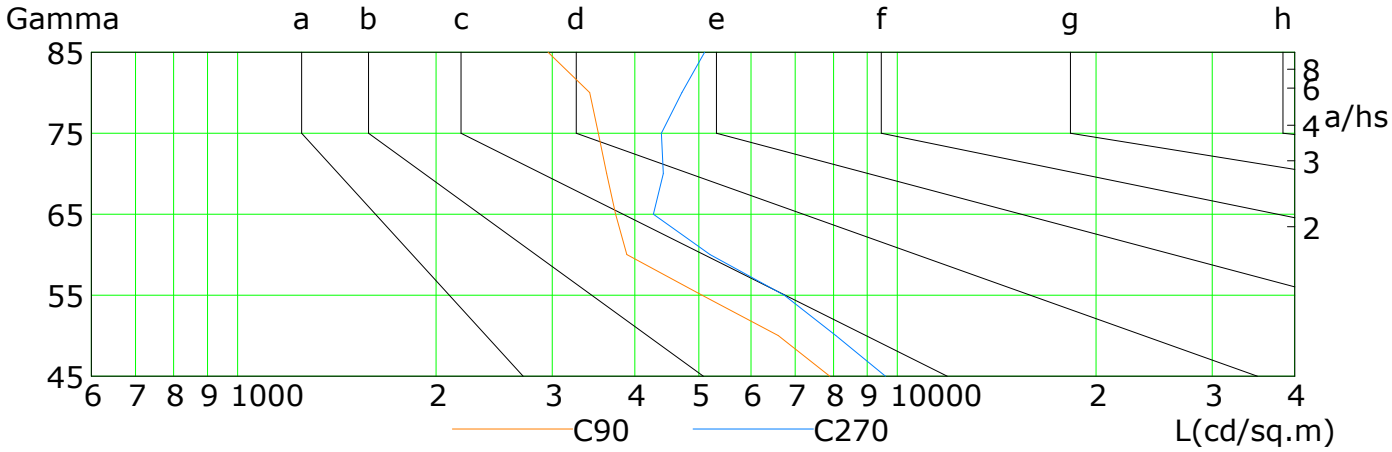


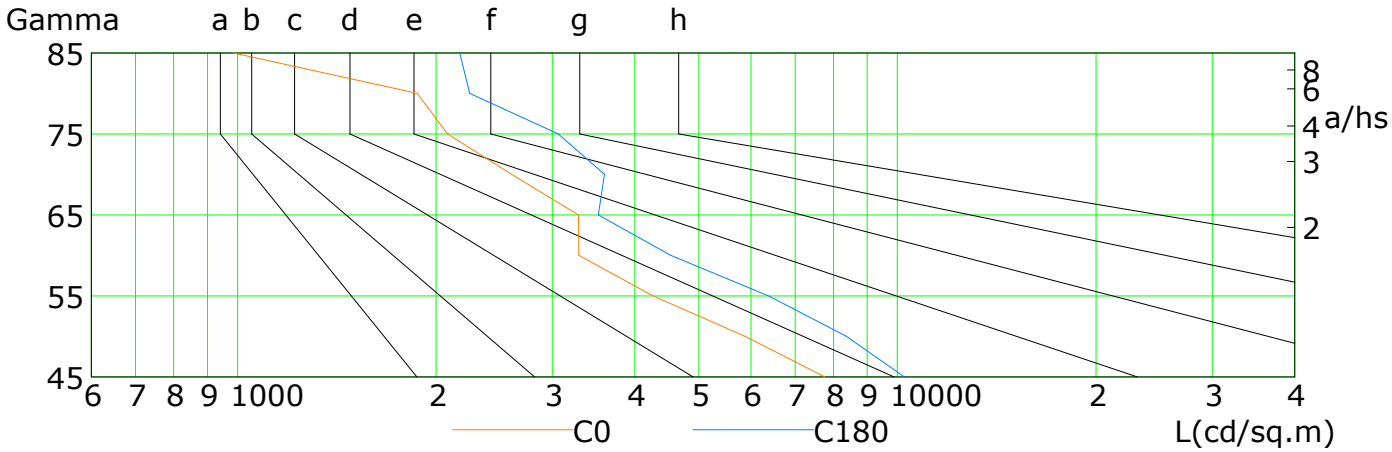
C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



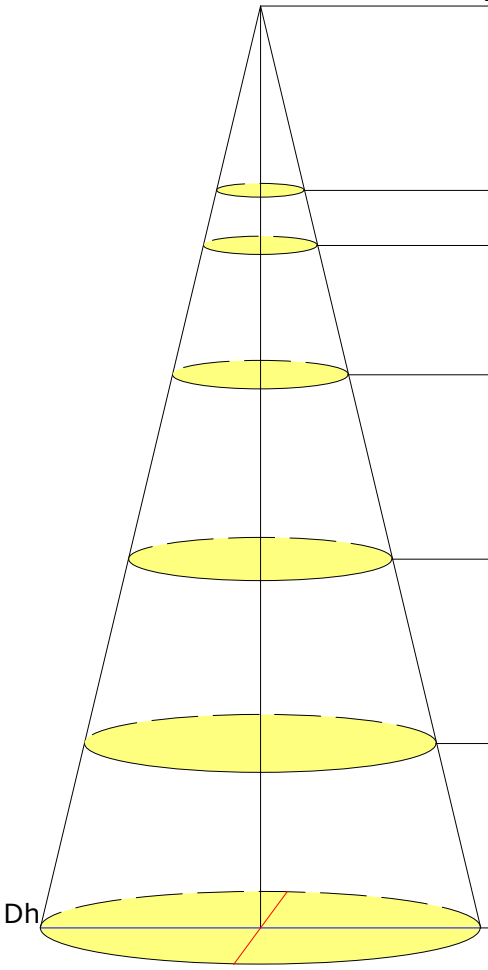


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	7763	5875	4263	3289	3288	2602	2081	1871	985
C90	7896	6597	5056	3892	3743	3626	3523	3419	2954
C180	10250	8368	6380	4534	3523	3599	3062	2248	2172
C270	9596	8068	6737	5203	4266	4418	4390	4713	5105

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



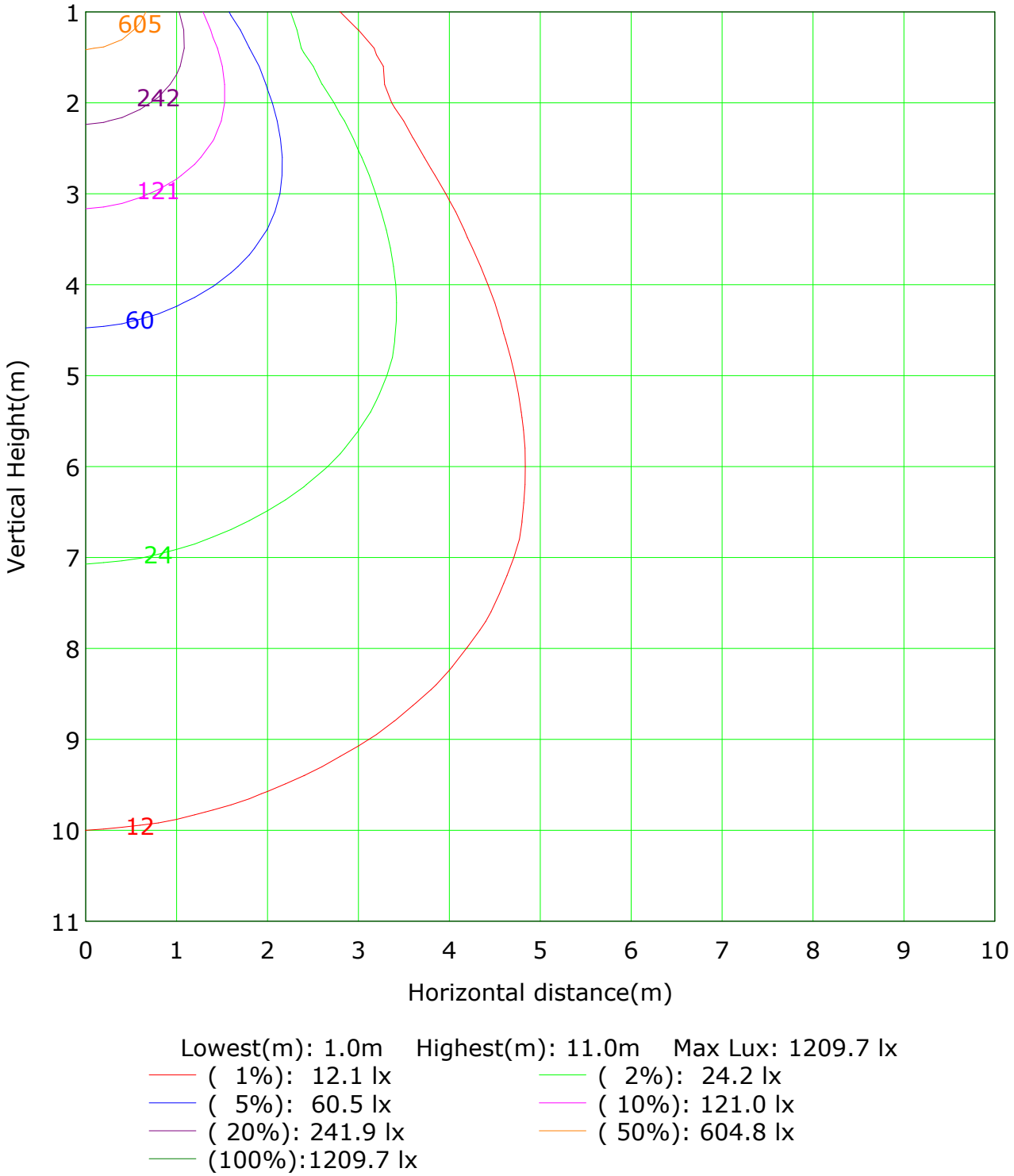
Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
1.0	1209.69	1.99/1.80	2.8	341.62
1.3	715.79	2.59/2.34	4.8	202.14
2.0	302.42	3.99/3.60	11.4	85.40
3.0	134.41	5.98/5.39	25.6	37.96
4.0	75.61	7.97/7.19	45.5	21.35
5.0	48.39	9.97/8.99	71.1	13.66

Beam Angle(B): H89.8 V83.9 Field Angle(F): H142.4 V139.6

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: 1209.7 lx

(1%): 12.1 lx	(2%): 24.2 lx
(5%): 60.5 lx	(10%): 121.0 lx
(20%): 241.9 lx	(50%): 604.8 lx
(100%):1209.7 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:

Area Flux Table

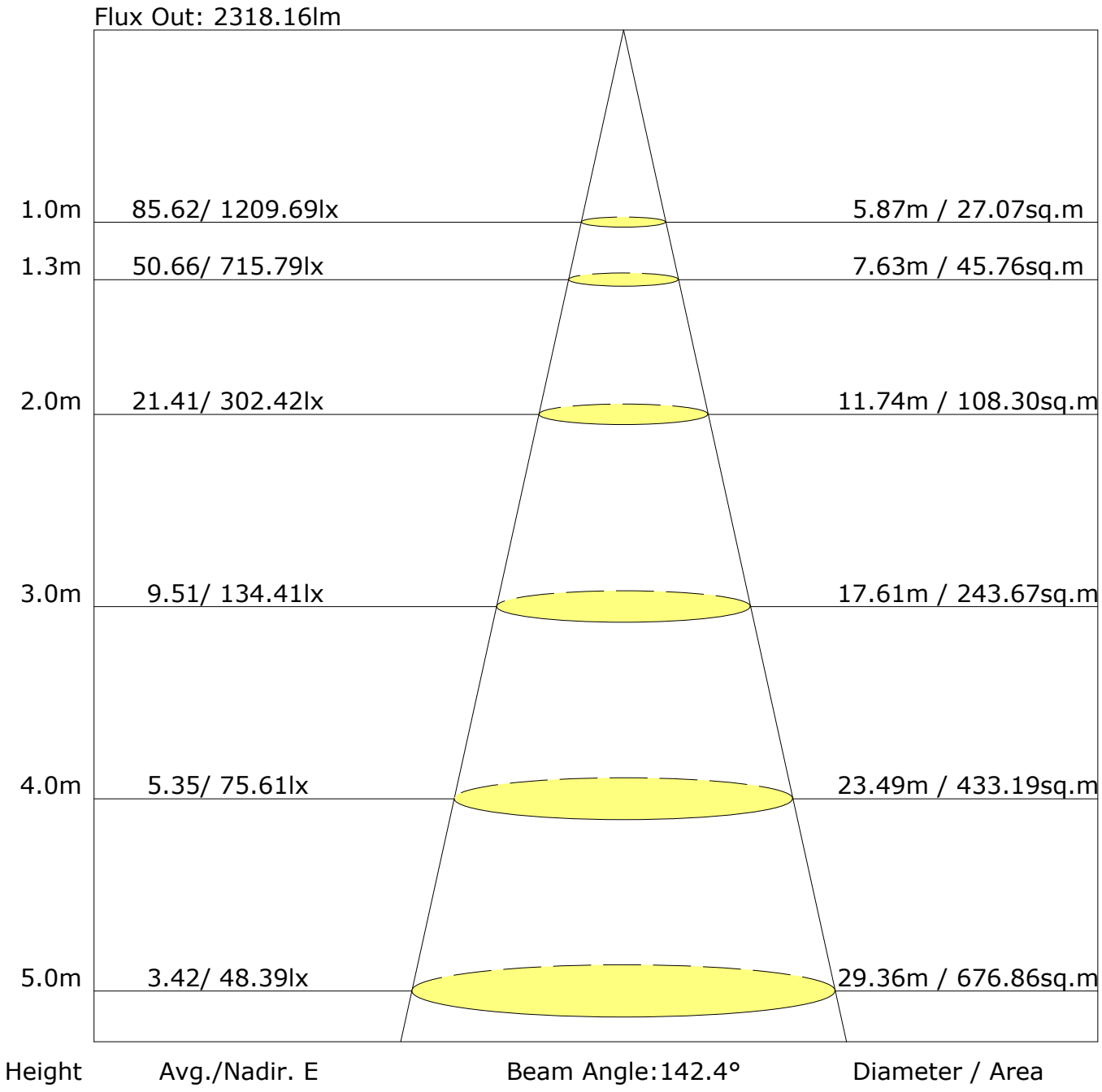
Unit: lm/klm

Horizontal plane	Vertical plane																							
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
-90	0.0	0.1	0.2	0.3	0.4	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	5.9	0.0	0.0
-80	0.0	0.1	0.3	0.5	0.7	0.9	1.1	1.2	1.3	1.3	1.2	1.0	0.8	0.6	0.4	0.2	0.1	0.0	11.7	1.0	0.0
-70	0.0	0.2	0.4	0.7	1.1	1.4	1.7	1.9	2.0	2.0	1.9	1.6	1.3	0.9	0.6	0.3	0.1	0.0	18.2	13.8	0.0
-60	0.0	0.2	0.5	1.0	1.4	2.1	2.9	3.6	4.0	3.9	3.4	2.6	1.9	1.3	0.8	0.4	0.2	0.0	30.3	28.3	0.0
-50	0.1	0.2	0.7	1.2	2.1	3.6	5.2	6.4	7.0	6.9	6.0	4.6	3.0	1.8	1.0	0.5	0.2	0.0	50.6	49.3	0.0
-40	0.1	0.3	0.8	1.5	3.2	5.5	7.9	9.8	10.7	10.6	9.4	7.2	4.6	2.5	1.3	0.6	0.2	0.0	76.3	75.4	0.0
-30	0.1	0.3	0.8	2.0	4.4	7.4	10.2	12.0	12.9	12.8	11.7	9.6	6.4	3.4	1.5	0.7	0.2	0.0	96.6	95.9	0.0
-20	0.1	0.4	0.9	2.4	5.3	8.7	11.5	13.3	14.2	14.1	13.0	10.9	7.8	4.1	1.7	0.8	0.3	0.0	109.5	108.8	0.0
-10	0.1	0.4	1.0	2.7	5.9	9.4	12.0	13.9	14.8	14.7	13.5	11.5	8.4	4.6	1.9	0.8	0.3	0.0	115.7	115.1	0.0
0	0.1	0.4	1.0	2.6	5.8	9.3	12.0	13.8	14.7	14.6	13.5	11.4	8.3	4.5	1.8	0.8	0.3	0.0	114.9	114.4	0.0
10	0.1	0.3	0.9	2.3	5.2	8.5	11.2	13.0	13.9	13.8	12.8	10.7	7.5	4.0	1.7	0.8	0.3	0.0	107.1	106.5	0.0
20	0.1	0.3	0.8	1.9	4.2	7.0	9.7	11.6	12.4	12.3	11.3	9.1	6.0	3.2	1.4	0.7	0.2	0.0	92.3	91.5	0.0
30	0.1	0.3	0.7	1.4	3.0	5.1	7.2	8.9	9.7	9.5	8.5	6.5	4.2	2.3	1.2	0.6	0.2	0.0	69.6	68.7	0.0
40	0.0	0.2	0.6	1.1	1.9	3.3	4.6	5.6	5.9	5.8	5.1	4.0	2.6	1.6	1.0	0.5	0.2	0.0	44.2	42.8	0.0
50	0.0	0.2	0.5	0.9	1.3	1.9	2.5	3.0	3.1	3.0	2.7	2.2	1.7	1.2	0.8	0.4	0.2	0.0	25.6	23.3	0.0
60	0.0	0.2	0.4	0.7	1.0	1.3	1.5	1.7	1.7	1.7	1.6	1.4	1.1	0.8	0.5	0.3	0.1	0.0	16.0	9.2	0.0
70	0.0	0.1	0.3	0.4	0.6	0.8	0.9	1.0	1.0	1.0	1.0	0.8	0.7	0.5	0.3	0.2	0.1	0.0	9.8	0.0	0.0
80	0.0	0.1	0.2	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.1	0.1	0.0	0.0	4.3	0.0	0.0
90	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.2	0.1	0.1	0.0	0.0	0.0		
Flux(E)	0.0	0.9	7.8	20.9	44.9	74.1	100.0	118.4	127.2	125.8	114.0	92.6	63.7	34.5	14.8	4.5	0.0	0.0			
Flux(T)	0.8	4.3	10.9	23.9	47.9	77.1	103.2	121.7	130.6	129.1	117.4	95.9	67.0	37.9	18.3	8.7	3.1	0.5	999		
Flux(E)	0.0	0.1	0.2	0.3	0.4	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	5.9	0.0	944

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:

The Average Illuminance Effective Figure



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

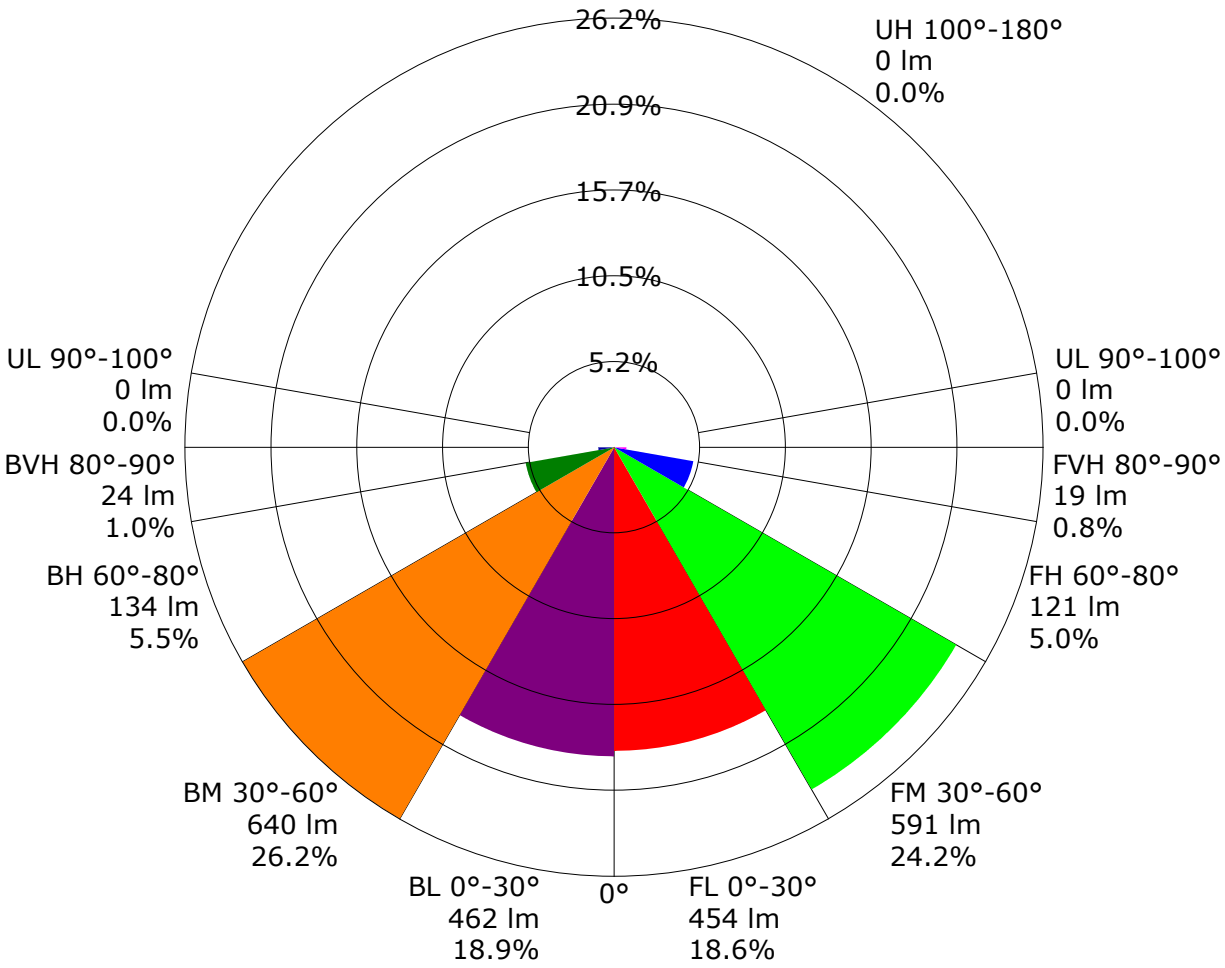
Reflectance: Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	17.0	18.3	17.3	18.5	18.7	17.6	18.8	17.8	19.0	19.2
3H	17.7	18.9	18.1	19.1	19.4	18.4	19.5	18.7	19.7	20.0
4H	18.0	19.1	18.3	19.3	19.6	18.8	19.9	19.2	20.2	20.4
6H	18.2	19.2	18.6	19.5	19.8	19.3	20.3	19.6	20.6	20.9
8H	18.3	19.2	18.7	19.6	19.9	19.5	20.4	19.9	20.7	21.1
12H	18.3	19.2	18.7	19.5	19.9	19.7	20.6	20.1	20.9	21.2
X=4H Y=2H	17.3	18.4	17.7	18.7	18.9	17.8	18.8	18.1	19.1	19.4
3H	18.2	19.1	18.6	19.5	19.8	18.8	19.7	19.2	20.0	20.4
4H	18.6	19.4	19.0	19.8	20.1	19.4	20.2	19.8	20.5	20.9
6H	19.0	19.7	19.4	20.1	20.5	20.0	20.7	20.4	21.1	21.5
8H	19.1	19.7	19.5	20.1	20.6	20.3	20.9	20.7	21.3	21.8
12H	19.1	19.7	19.6	20.2	20.6	20.5	21.1	21.0	21.6	22.0
X=8H Y=4H	18.8	19.5	19.3	19.9	20.3	19.5	20.2	20.0	20.6	21.0
6H	19.3	19.8	19.8	20.3	20.7	20.3	20.8	20.8	21.3	21.7
8H	19.5	20.0	20.0	20.4	20.9	20.7	21.1	21.1	21.6	22.1
12H	19.6	20.0	20.1	20.5	21.0	21.0	21.4	21.5	21.9	22.4
X=12H Y=4H	18.8	19.4	19.3	19.9	20.3	19.5	20.1	20.0	20.5	21.0
6H	19.4	19.8	19.9	20.3	20.8	20.3	20.8	20.8	21.2	21.7
8H	19.6	20.0	20.1	20.5	21.0	20.7	21.1	21.2	21.6	22.1
Variations with the observer position at spacings:										
S=1.0H	+0.5/-0.7					+0.4/-0.5				
S=1.5H	+1.0/-1.3					+1.0/-1.2				
S=2.0H	+2.0/-1.6					+1.9/-1.8				

Calculate in accordance with CIE Pub.117. The table is revised with 2446lm (8log(F/F0) = 3.1).

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:

LCS Graph



Scale= MAX LCS%

Trapped Light:NA,NA

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:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)											
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	0.67	0.76	0.82	0.87	0.93	0.97	1.00	1.03	1.06
	0.30		0.60	0.70	0.76	0.81	0.88	0.92	0.95	1.00	1.03
	0.20		0.55	0.65	0.71	0.76	0.83	0.88	0.92	0.97	1.00
0.50	0.50	0.20	0.65	0.74	0.80	0.84	0.90	0.93	0.96	0.99	1.01
	0.30		0.59	0.68	0.75	0.79	0.85	0.90	0.93	0.97	0.99
	0.20		0.55	0.64	0.71	0.75	0.82	0.86	0.90	0.94	0.97
0.30	0.50	0.20	0.64	0.72	0.78	0.82	0.87	0.90	0.93	0.96	0.98
	0.30		0.59	0.67	0.73	0.78	0.83	0.87	0.90	0.93	0.96
	0.20		0.55	0.64	0.70	0.74	0.80	0.84	0.87	0.91	0.94
0.00	0.00	0.00	0.53	0.61	0.67	0.71	0.77	0.81	0.83	0.87	0.89

SHR NOM = 1.25

Rating:20W Photometrically tested without ceiling board.

Multiply UF values by service correction factors

Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

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:

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	0.84	0.69	0.58	0.50	0.40	0.33	0.29	0.22	0.18
	0.30		0.70	0.59	0.51	0.45	0.36	0.31	0.26	0.21	0.17
	0.20		0.60	0.51	0.45	0.40	0.33	0.28	0.25	0.20	0.17
0.50	0.50	0.20	0.81	0.66	0.55	0.48	0.38	0.35	0.27	0.21	0.17
	0.30		0.69	0.57	0.49	0.43	0.35	0.29	0.25	0.20	0.16
	0.20		0.60	0.50	0.44	0.39	0.32	0.27	0.24	0.19	0.16
0.30	0.50	0.20	0.79	0.63	0.53	0.46	0.36	0.30	0.26	0.20	0.16
	0.30		0.67	0.55	0.47	0.41	0.33	0.28	0.24	0.19	0.16
	0.20		0.59	0.49	0.43	0.38	0.31	0.26	0.23	0.18	0.15
0.00	0.00	0.00	0.47	0.39	0.33	0.29	0.23	0.19	0.17	0.13	0.11

Rating:20W Photometrically tested without ceiling board.

Multiply UF values by service correction factors

Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

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:

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	0.14	0.16	0.17	0.17	0.18	0.19	0.19	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	0.12	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:20W Photometrically tested without ceiling board.
Multiply UF values by service correction factors
Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

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:

Zonal Lumen

Gamma [°]	Imean [cd/klm]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-5.0	493.2	28.8	28.8	1.18	1.18
5.0-10.0	487.0	85.2	114.1	3.48	4.66
10.0-15.0	475.3	137.9	252.0	5.64	10.30
15.0-20.0	459.3	185.2	437.2	7.57	17.87
20.0-25.0	438.3	224.9	662.1	9.19	27.07
25.0-30.0	409.9	253.8	915.9	10.38	37.44
30.0-35.0	372.7	268.5	1184.4	10.98	48.42
35.0-40.0	322.5	263.2	1447.6	10.76	59.18
40.0-45.0	259.5	235.0	1682.6	9.61	68.79
45.0-50.0	197.9	195.7	1878.3	8.00	76.79
50.0-55.0	145.4	154.6	2032.9	6.32	83.11
55.0-60.0	101.0	114.2	2147.1	4.67	87.78
60.0-65.0	72.1	85.8	2232.9	3.51	91.28
65.0-70.0	57.0	70.6	2303.4	2.89	94.17
70.0-75.0	44.5	57.0	2360.4	2.33	96.50
75.0-80.0	32.2	42.2	2402.6	1.72	98.22
80.0-85.0	21.2	28.2	2430.8	1.15	99.37
85.0-90.0	11.4	15.3	2446.1	0.63	100.00

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:

Zonal Lumen (Continue 1)

cone flux(90°): 1682.61 lm

%lum = 68.8%
%lamp = 68.8%

cone flux(120°): 2147.10 lm

%lum = 87.8%
%lamp = 87.8%

Candlepower Table

Unit: cd/klm

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	494.5	494.8	494.5	494.8	494.5					
G5.0	489.3	489.5	494.1	493.8	489.3					
G10.0	478.5	477.3	488.0	485.5	478.5					
G15.0	463.4	461.3	476.6	471.9	463.4					
G20.0	445.3	440.3	461.2	454.7	445.3					
G25.0	420.9	410.4	442.6	430.8	420.9					
G30.0	387.6	371.7	417.5	397.9	387.6					
G35.0	342.5	323.6	383.6	356.9	342.5					
G40.0	279.4	251.1	339.5	303.1	279.4					
G45.0	211.4	186.0	279.1	226.1	211.4					
G50.0	150.2	142.5	214.0	174.2	150.2					
G55.0	101.1	98.4	151.3	131.1	101.1					
G60.0	71.3	66.9	98.3	89.4	71.3					
G65.0	64.0	55.3	68.6	63.0	64.0					
G70.0	44.6	44.4	61.7	54.1	44.6					
G75.0	30.5	34.0	44.9	42.3	30.5					
G80.0	22.6	23.8	27.1	32.8	22.6					
G85.0	9.2	12.4	20.4	21.5	9.2					
G90.0	2.2	7.1	8.2	10.5	2.2					

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:

LED Average Luminance Report

Avg.L	cd/m^2
L 0-180(65) av	4921.70
L 0-180(75) av	4564.12
L 0-180(85) av	5326.45
L 90-270(65) av	4390.82
L 90-270(75) av	4620.59
L 90-270(85) av	6101.66
L 45(65) av	4656.26
L 45(75) av	4592.36
L 45(85) av	5714.06

Standard: GB/T 29293-2012

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: