

Report No.:

Test Time: 2025-12-04 09:25

Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Lamp Catalog: 3000K

Number of Lamps:

Luminous Length (mm): 300

Luminous Height (mm):

Current: 0.0820 A

Power Factor: 0.9640

Luminaire Description: L300

Lamp Description:

Lumens per Lamp:

Luminous Width (mm): 300

Voltage: 232.00 V

Power: 18.27 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1957.2 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H113.4

Vertical Diffuse Angle(50%): V113.4

Luminous Efficacy (lm/w): 107.13

Max. Intensity: 344.43 cd/klm

S/MH(C0/C180): 1.26

Total Rated Lamp Lumens: 1957.2 lm

Efficiency: 100%

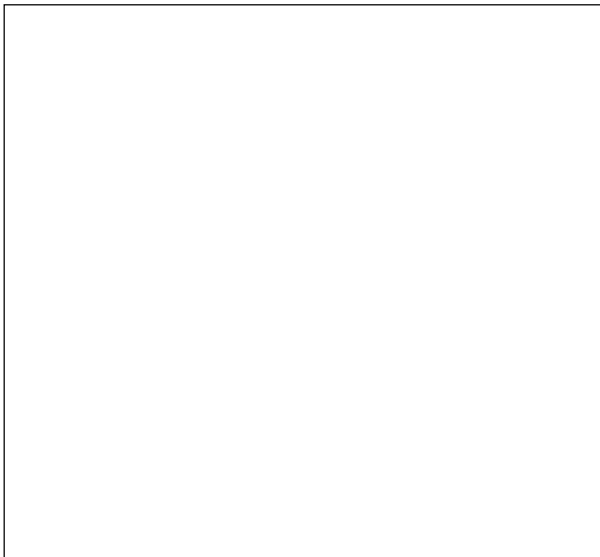
Upward Ratio: 0%

C0r0 Intensity: 344.43 cd/klm

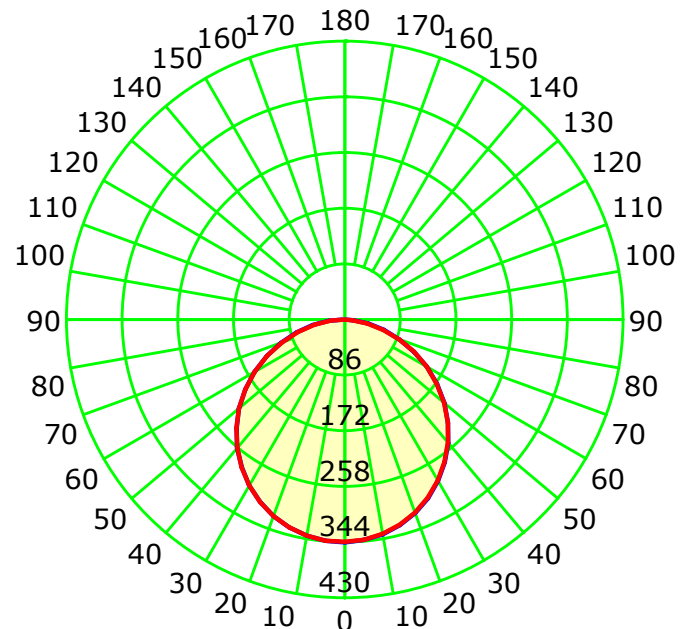
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 1.26

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd/klm

Average Diffuse Angle(50%): 113.4°

— 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

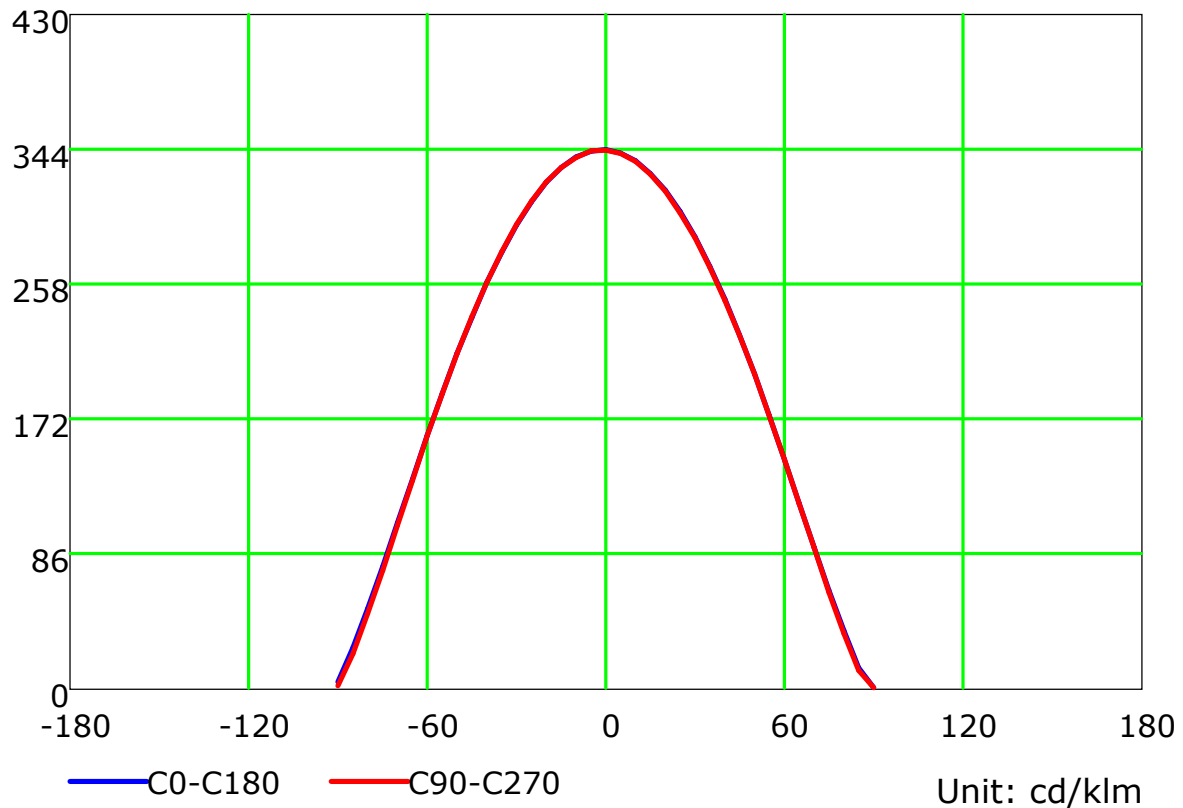
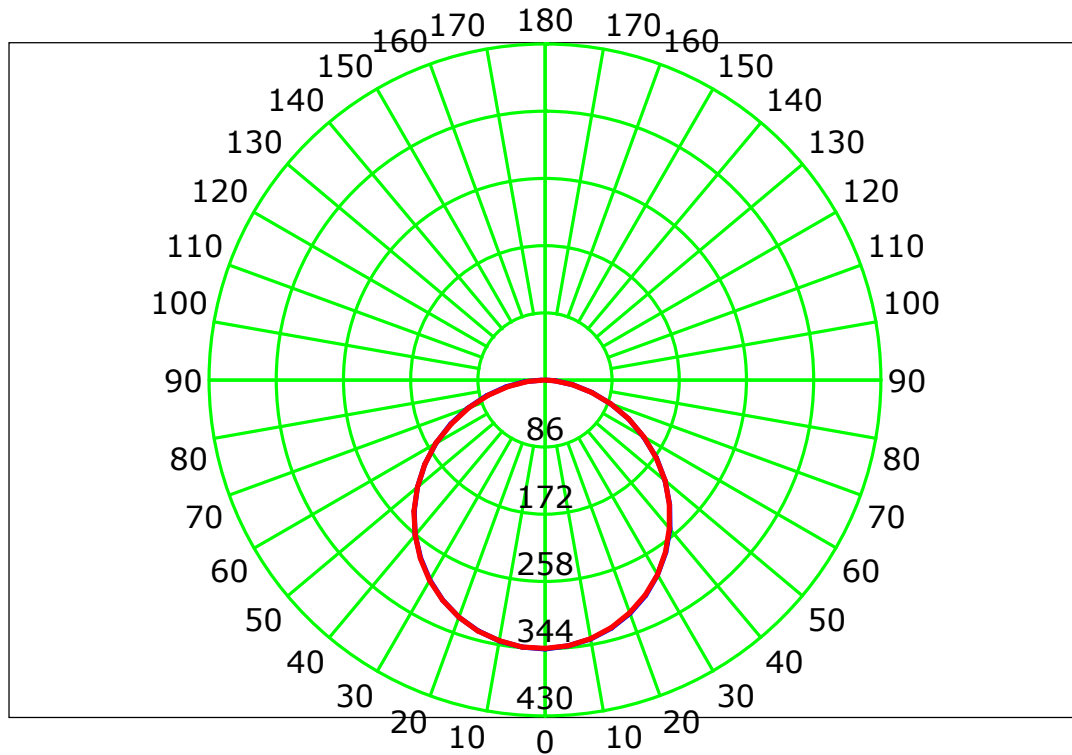
Test Device: GPM-1600L

Distance: 7.172 m [K=1.0000]

Humidity:

Inspector:

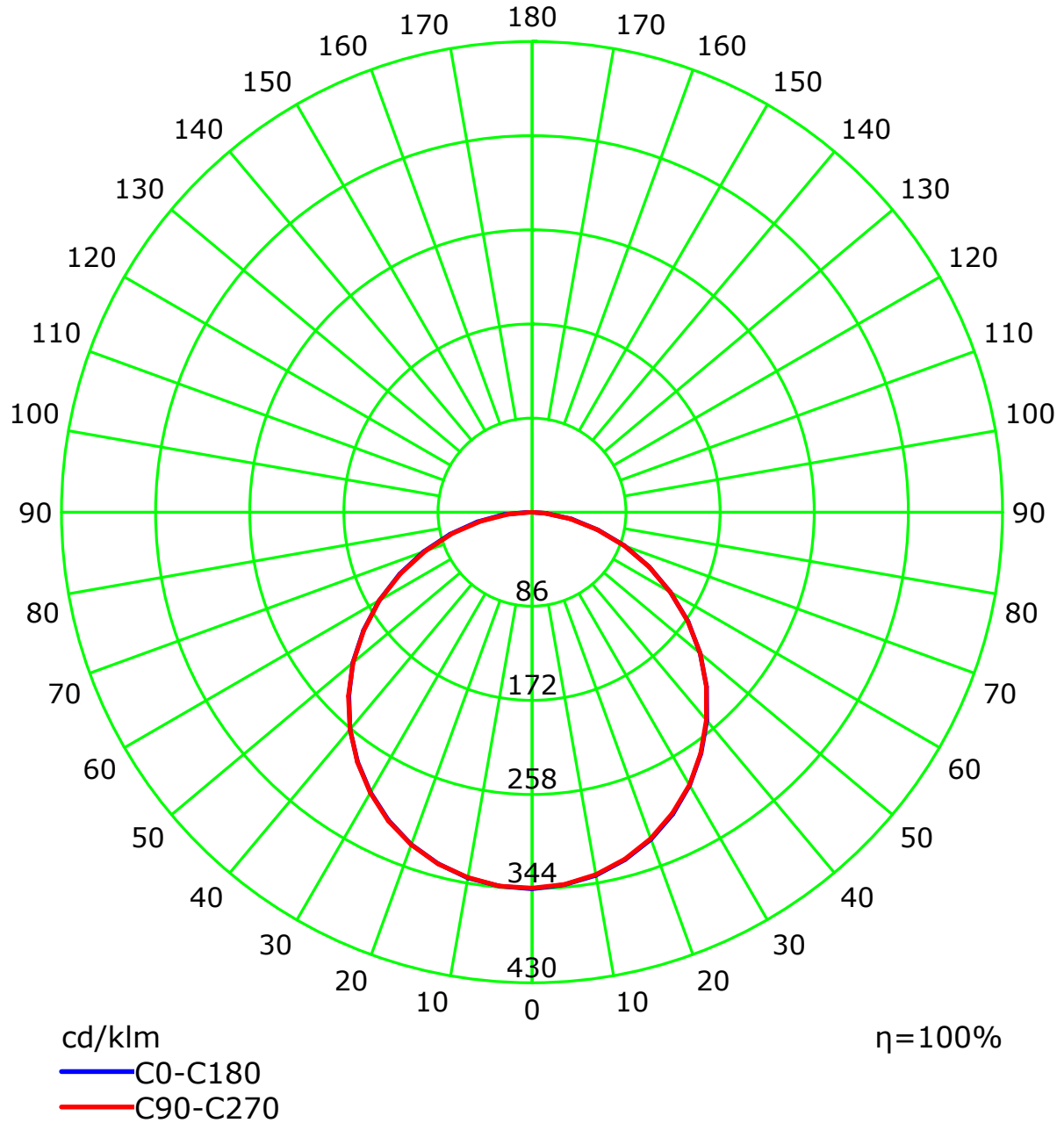
Luminous Intensity Distribution Curve



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)



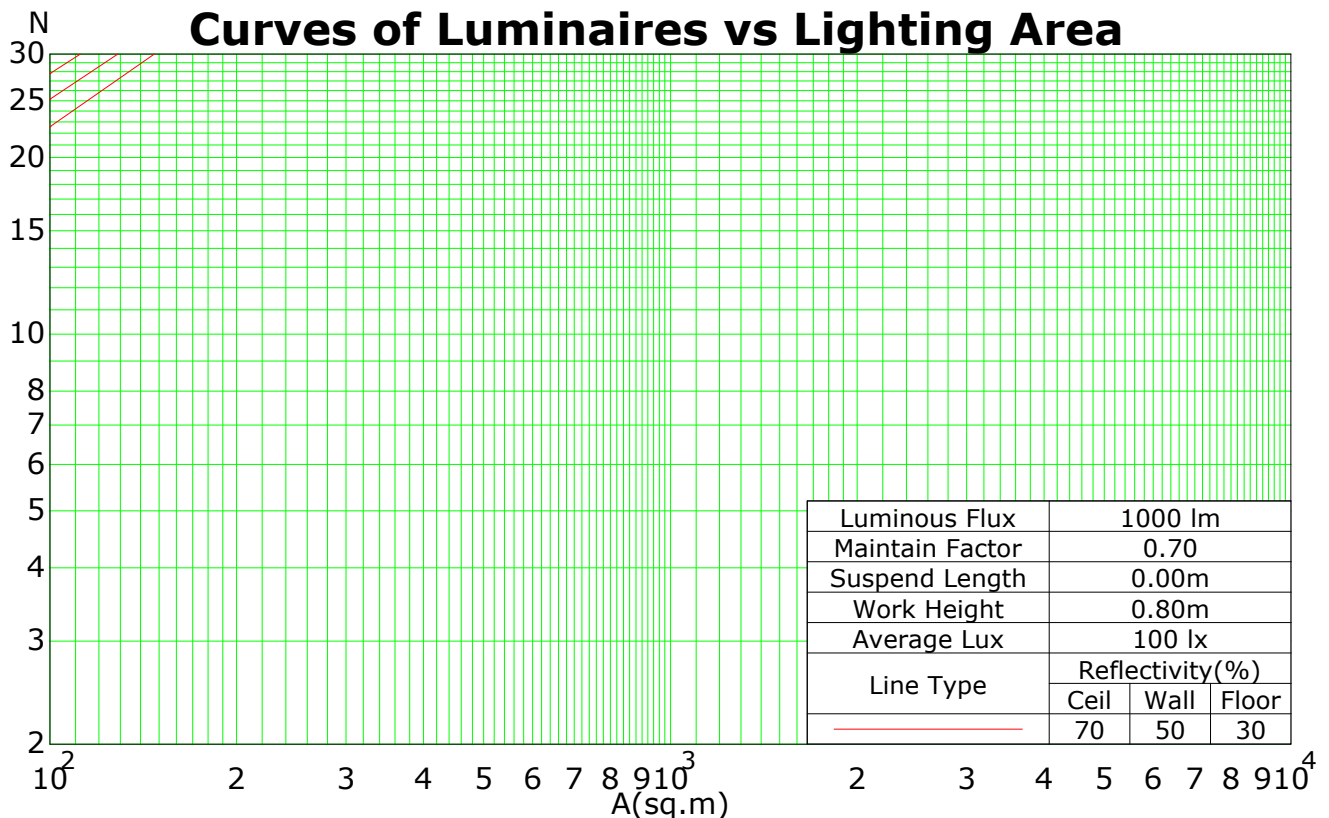
C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

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	1.08	1.04	0.99	0.95	1.06	1.01	0.97	0.94	0.97	0.94	0.91	0.93	0.90	0.88	0.89	0.87	0.85	0.83
2	0.98	0.90	0.83	0.77	0.96	0.88	0.82	0.76	0.85	0.79	0.75	0.81	0.77	0.73	0.78	0.74	0.71	0.69
3	0.90	0.79	0.71	0.64	0.87	0.77	0.70	0.63	0.74	0.68	0.62	0.72	0.66	0.61	0.69	0.64	0.60	0.58
4	0.82	0.70	0.61	0.54	0.80	0.68	0.60	0.54	0.66	0.59	0.53	0.64	0.57	0.52	0.61	0.56	0.52	0.49
5	0.75	0.62	0.53	0.46	0.73	0.61	0.53	0.46	0.59	0.51	0.46	0.57	0.50	0.45	0.55	0.49	0.45	0.43
6	0.70	0.56	0.47	0.41	0.68	0.55	0.47	0.40	0.53	0.46	0.40	0.52	0.45	0.40	0.50	0.44	0.39	0.37
7	0.64	0.51	0.42	0.36	0.63	0.50	0.42	0.36	0.48	0.41	0.35	0.47	0.40	0.35	0.46	0.39	0.35	0.33
8	0.60	0.46	0.38	0.32	0.58	0.46	0.37	0.32	0.44	0.37	0.32	0.43	0.36	0.31	0.42	0.36	0.31	0.29
9	0.56	0.43	0.34	0.29	0.55	0.42	0.34	0.29	0.41	0.33	0.28	0.40	0.33	0.28	0.39	0.33	0.28	0.26
10	0.53	0.39	0.31	0.26	0.51	0.39	0.31	0.26	0.38	0.31	0.26	0.37	0.30	0.26	0.36	0.30	0.25	0.24

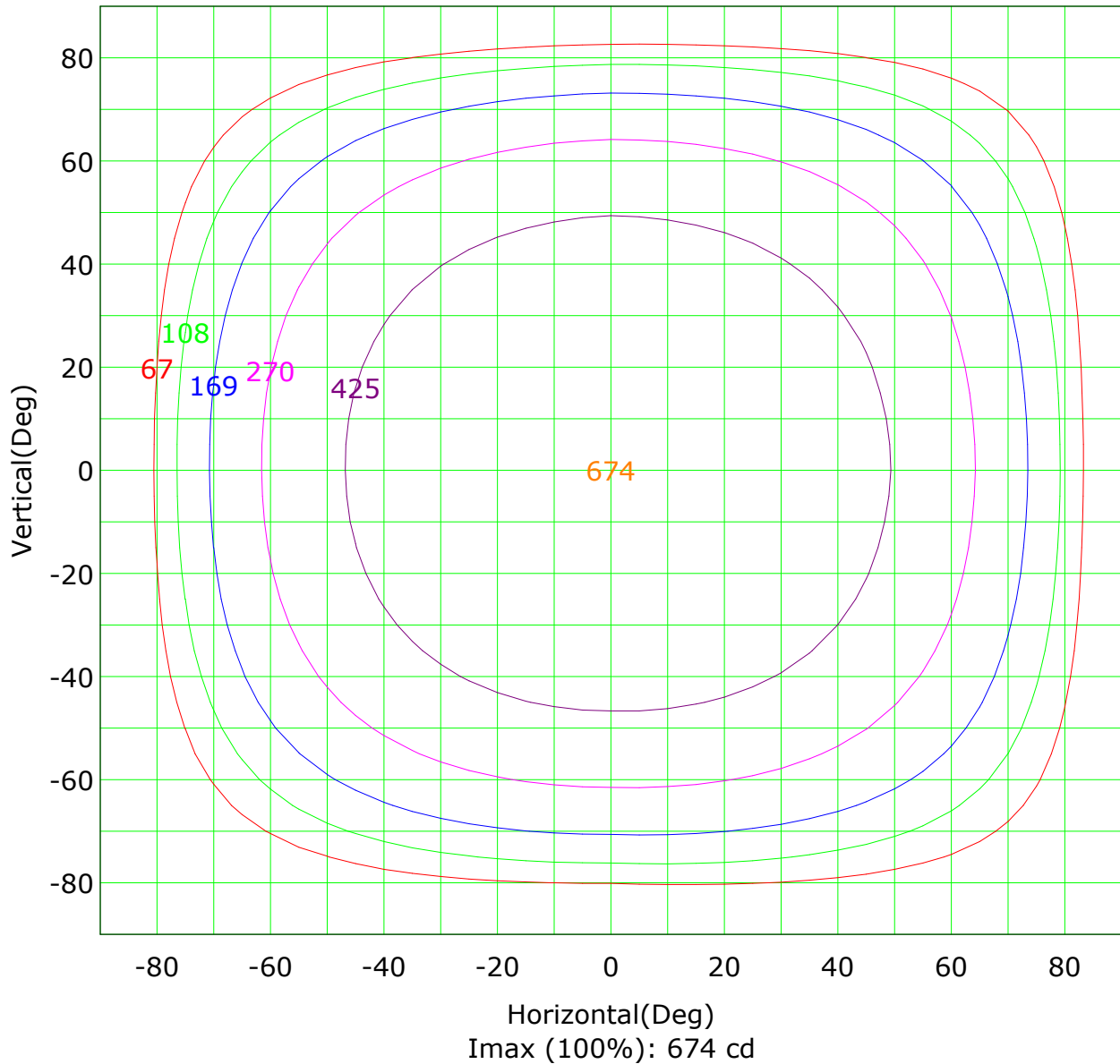
Spacing Criteria (0-180): 1.26
 Spacing Criteria (90-270): 1.26
 Spacing Criteria (Diagonal): 1.38



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)

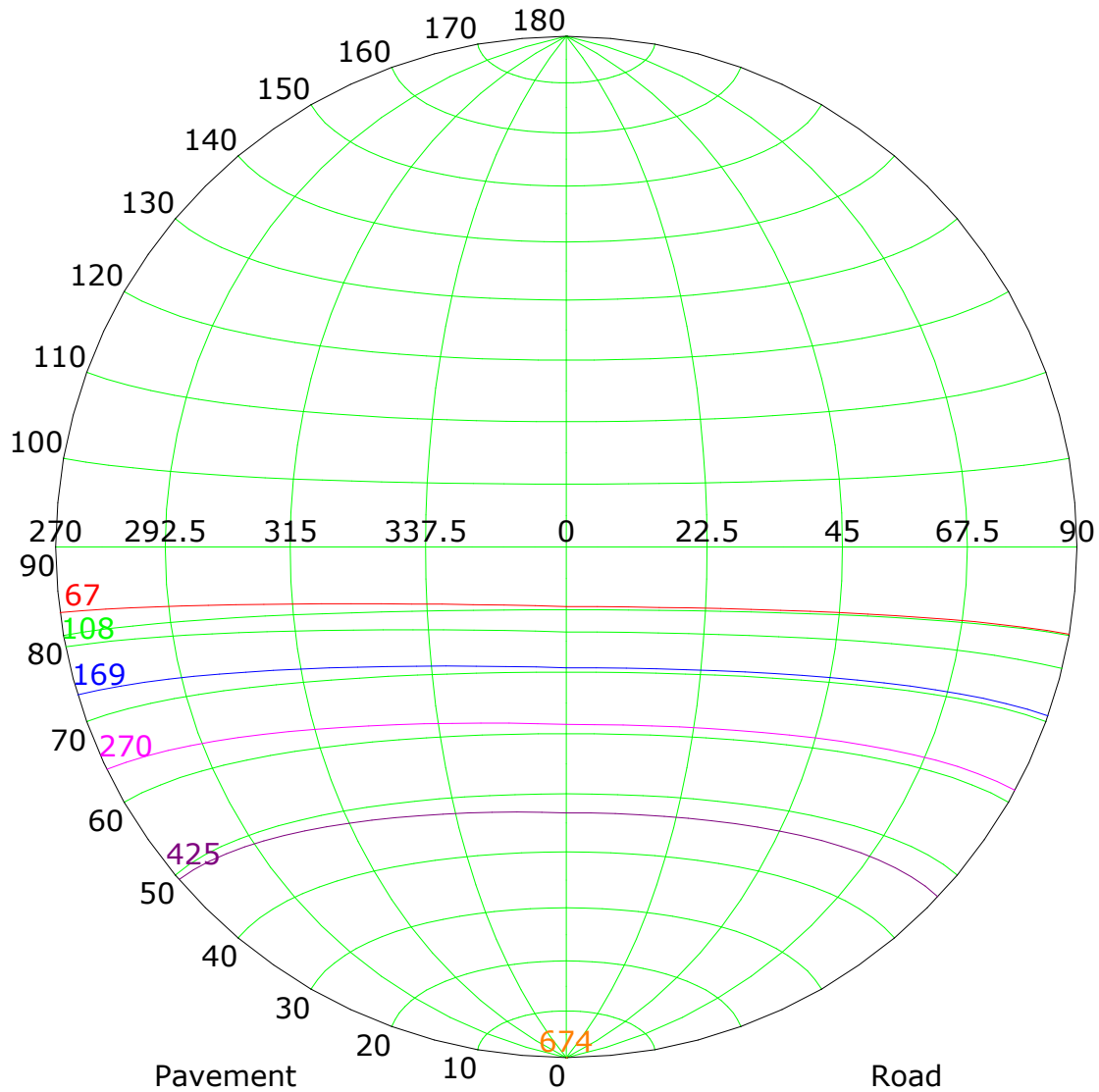


(10%):	67 cd	(16%):	108 cd
(25%):	169 cd	(40%):	270 cd
(63%):	425 cd	(100%):	674 cd

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%): 674 cd

(10%): 67 cd	(16%): 108 cd
(25%): 169 cd	(40%): 270 cd
(63%): 425 cd	(100%): 674 cd

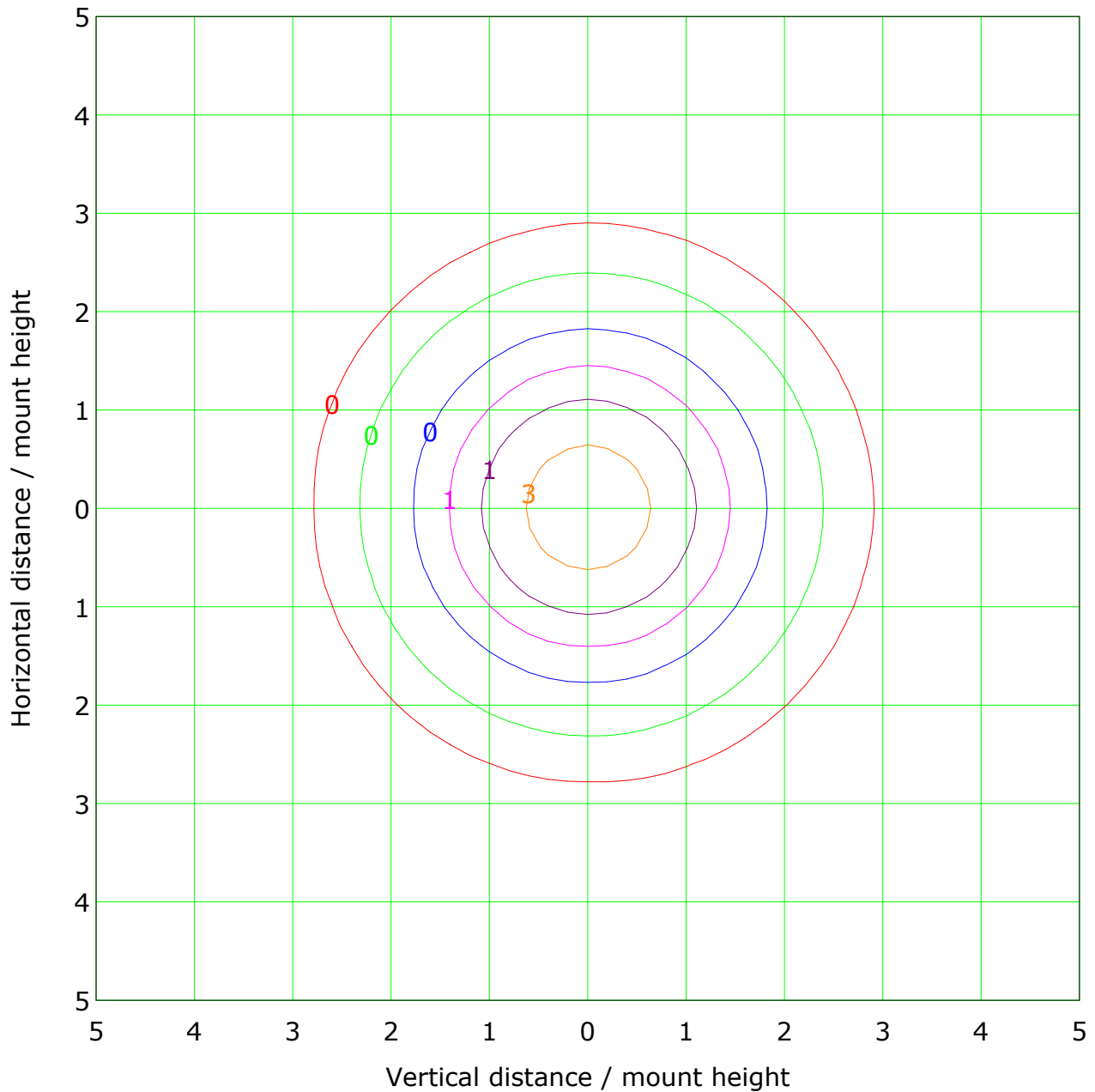
CIE: narrow - short
CIE: Non-cut-off luminaire
Max.At90: 45.991 cd/klm

IES: Semi-cut-off
Max.At80: 162.705 cd/klm
Max.80-90: 18581501414980757000000000000.0

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%): 6.7 lx

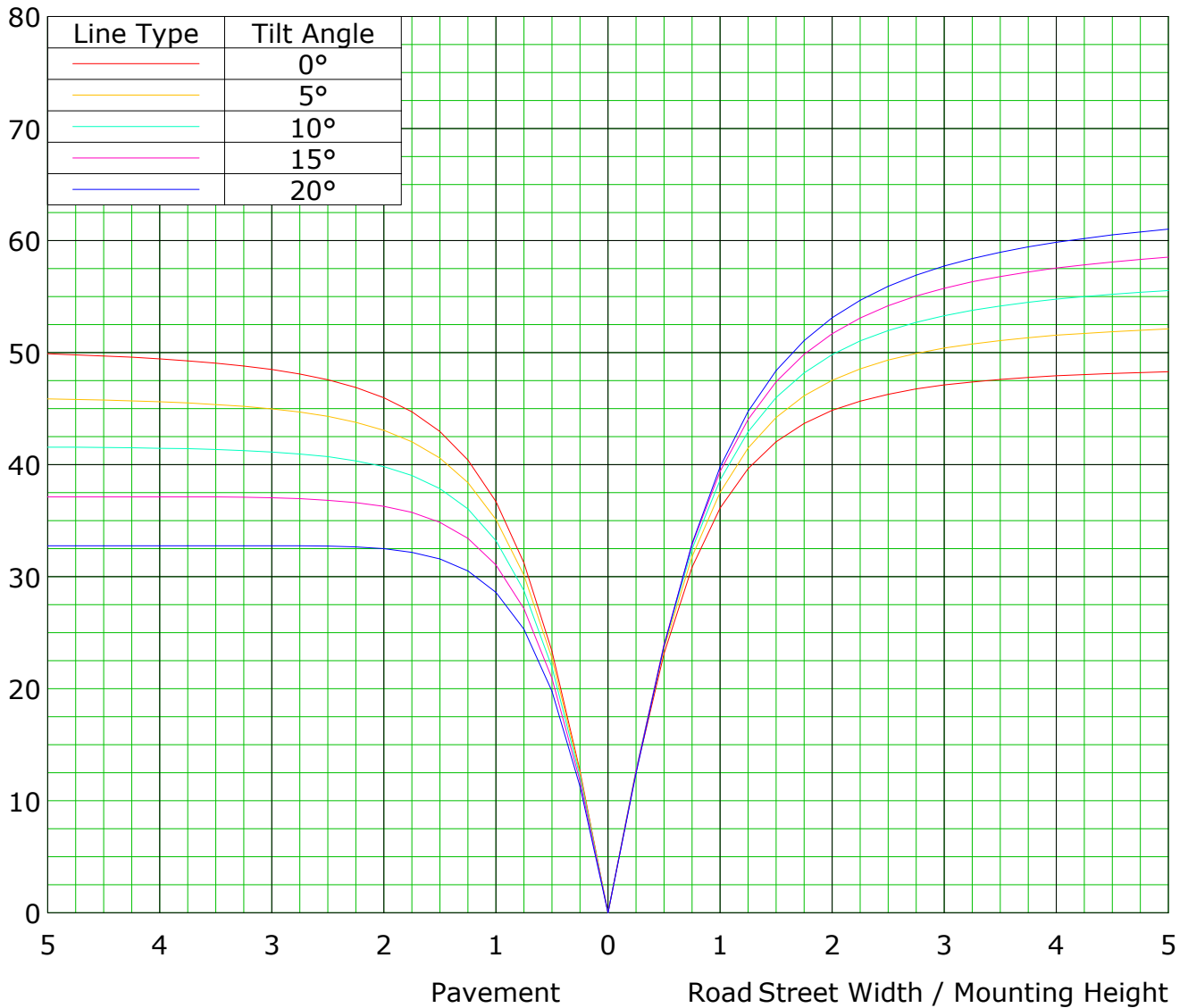
(1%): 0.1 lx	(2%): 0.1 lx
(5%): 0.3 lx	(10%): 0.7 lx
(20%): 1.3 lx	(50%): 3.4 lx
(100%): 6.7 lx	

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:

Roadway CU Curve

Efficiency(%)

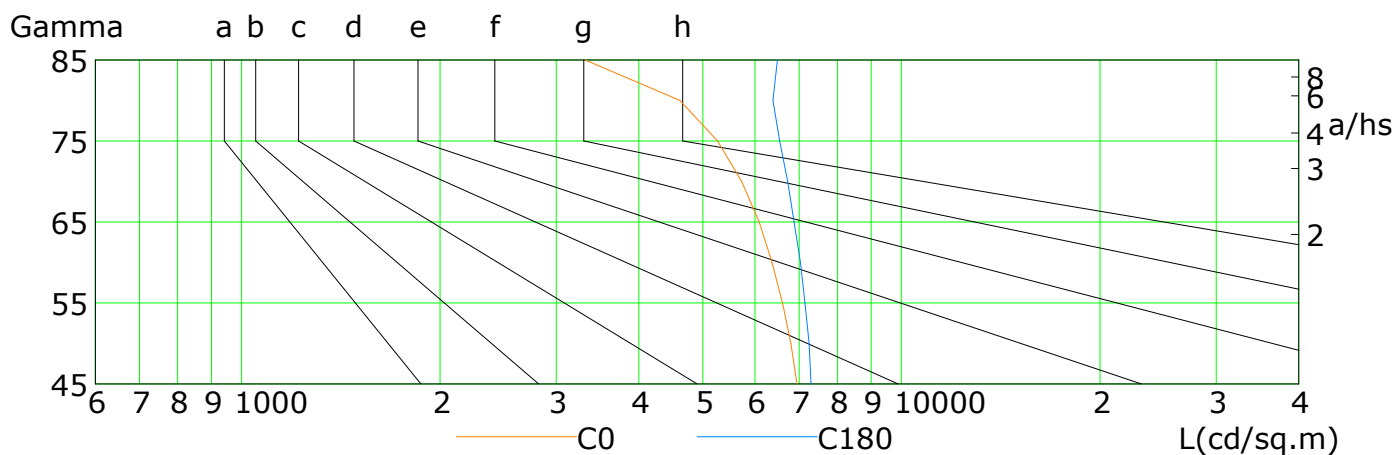
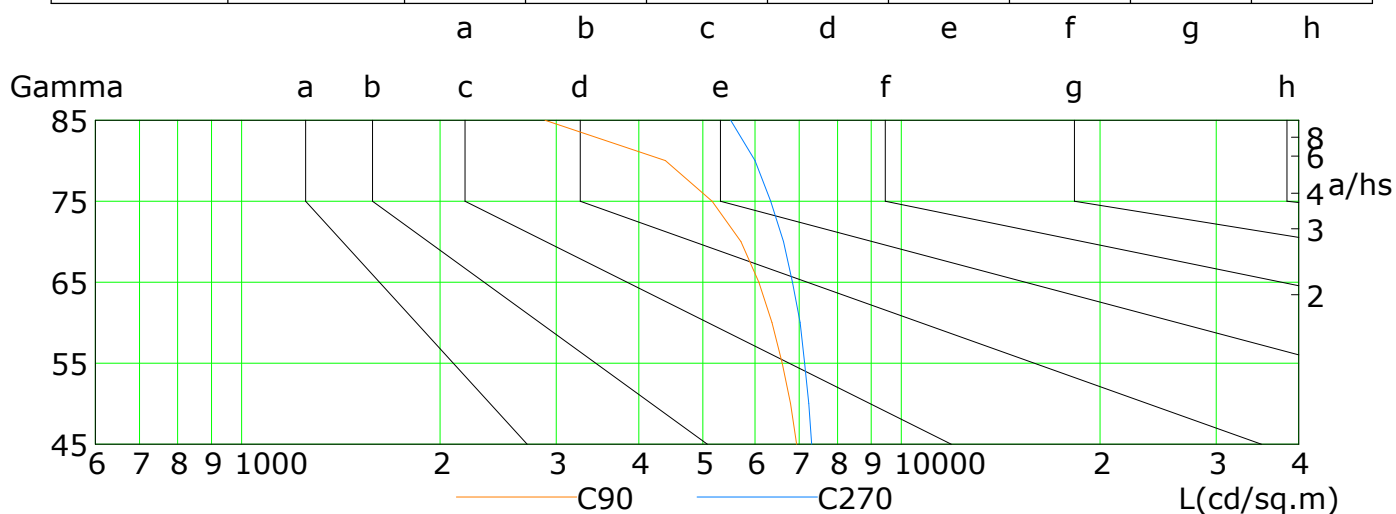


C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

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)							
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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	6944	6799	6605	6363	6089	5724	5263	4613	3315
C90	6936	6791	6595	6364	6080	5709	5163	4391	2882
C180	7296	7244	7144	7028	6879	6724	6537	6385	6490
C270	7315	7237	7137	7026	6841	6625	6339	6001	5512

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:5.0

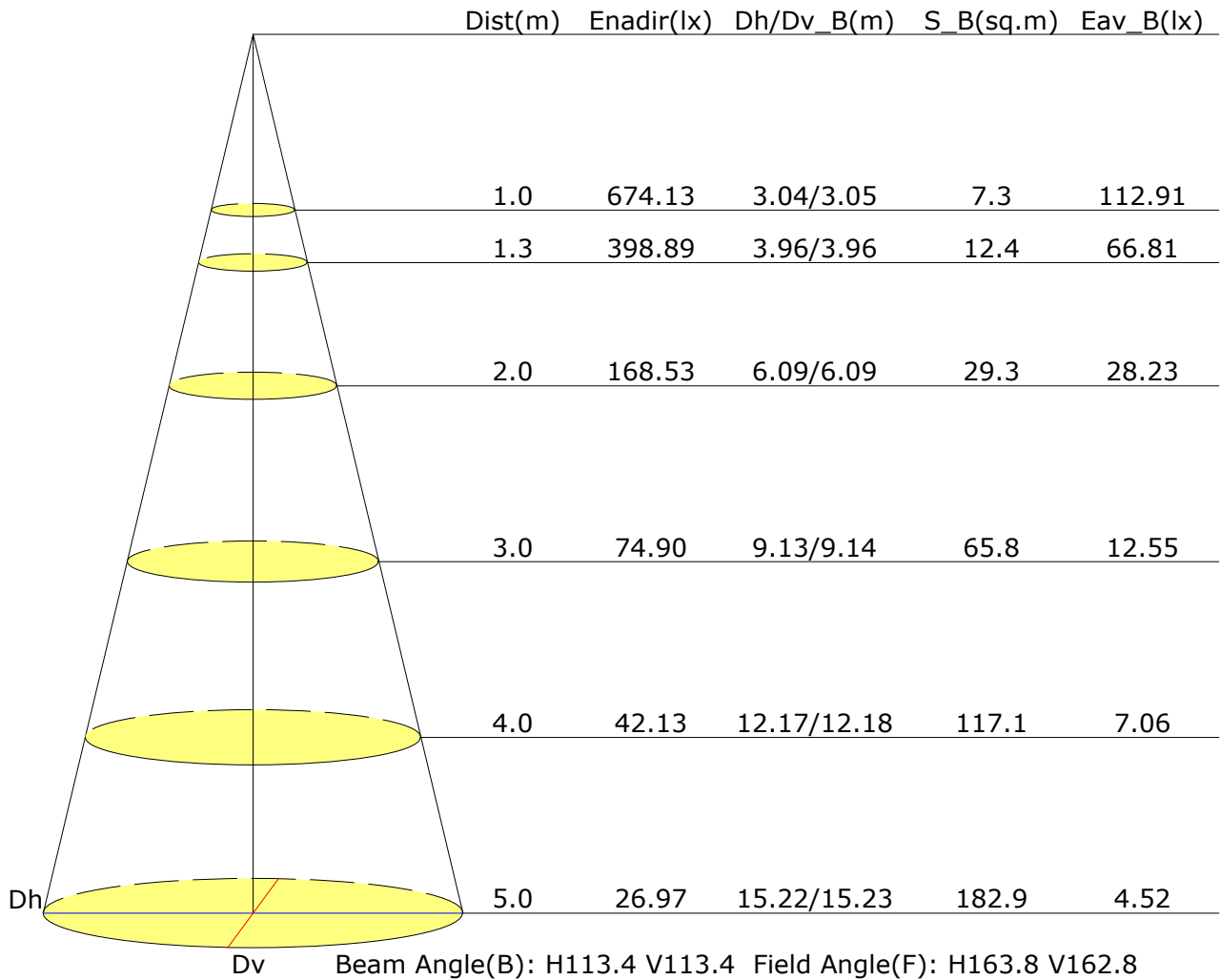
Test Device: GPM-1600L

Distance: 7.172 m [K=1.0000]

Humidity:

Inspector:

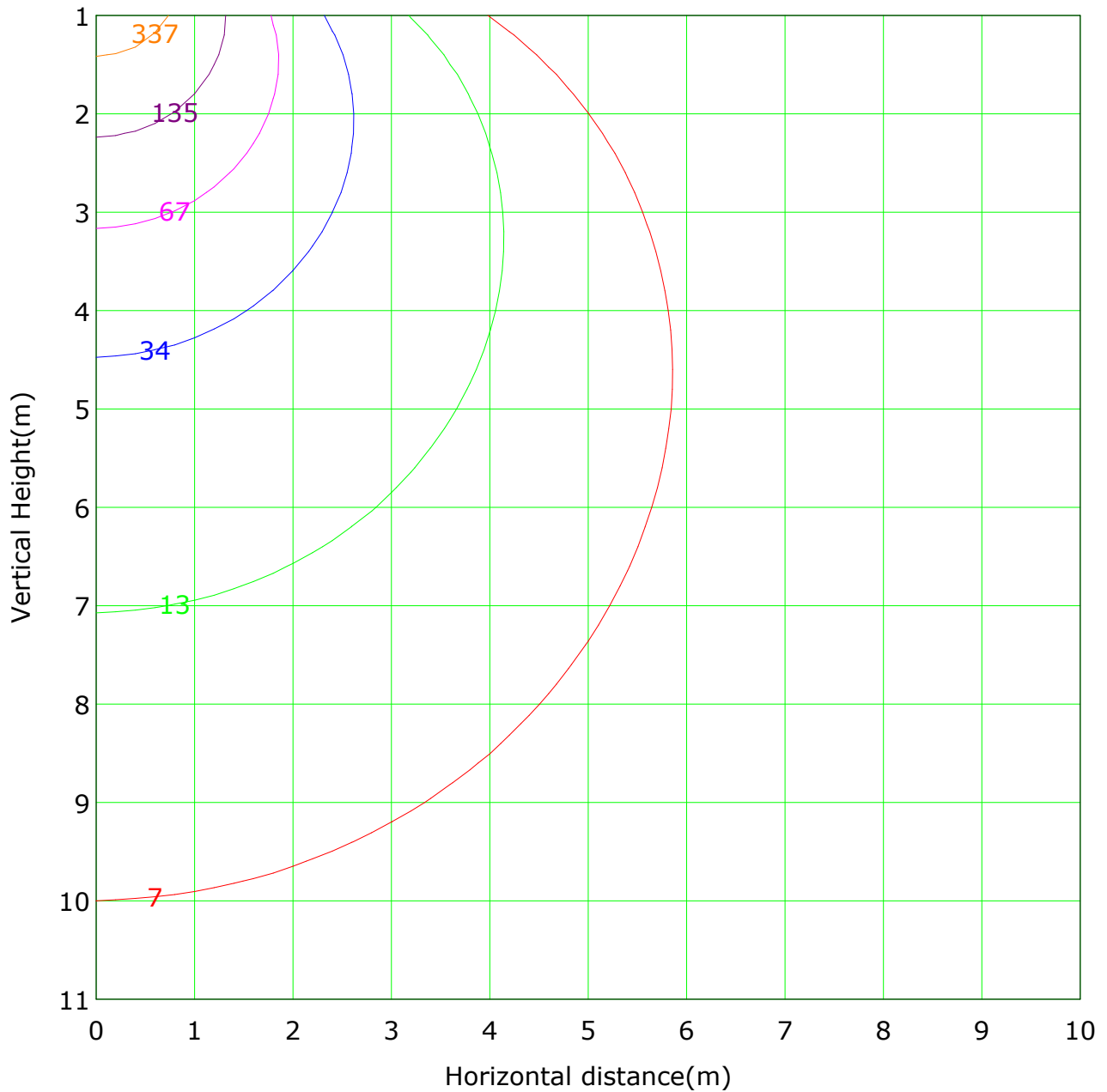
Illuminance at a Distance



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: 674.1 lx

(1%): 6.7 lx (2%): 13.5 lx
 (5%): 33.7 lx (10%): 67.4 lx
 (20%): 134.8 lx (50%): 337.1 lx
 (100%): 674.1 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:

Area Flux Table

Unit: lm/klm

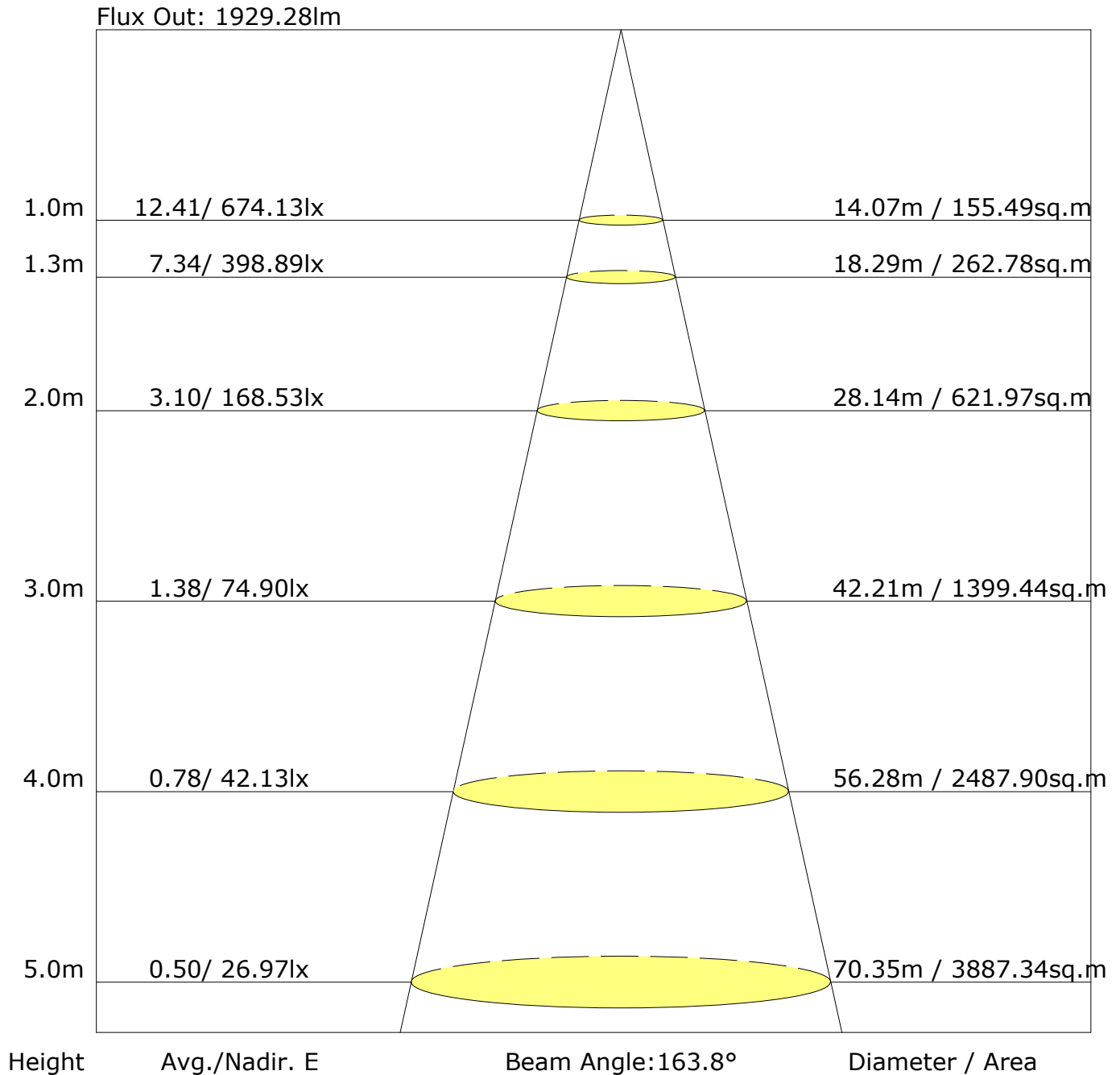
-90	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.7	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	6.3	1.7
-80	0.0	0.2	0.4	0.7	1.1	1.5	1.9	2.1	2.3	2.3	2.1	1.8	1.4	1.0	0.6	0.3	0.1	0.0	19.8	18.5
-70	0.0	0.3	0.7	1.3	1.9	2.6	3.3	3.8	4.0	4.0	3.7	3.1	2.5	1.8	1.1	0.5	0.2	0.0	34.7	34.3
-60	0.1	0.4	0.9	1.8	2.7	3.7	4.6	5.3	5.7	5.6	5.2	4.5	3.6	2.6	1.6	0.8	0.3	0.0	49.4	49.1
-50	0.1	0.4	1.2	2.2	3.5	4.7	5.9	6.7	7.1	7.1	6.6	5.7	4.6	3.3	2.0	1.0	0.3	0.0	62.6	62.4
-40	0.1	0.5	1.4	2.6	4.1	5.6	6.9	7.9	8.4	8.4	7.8	6.8	5.4	3.9	2.4	1.2	0.4	0.0	73.8	73.6
-30	0.1	0.6	1.6	3.0	4.6	6.2	7.7	8.8	9.4	9.3	8.7	7.6	6.1	4.4	2.7	1.4	0.5	0.1	82.5	82.4
-20	0.1	0.6	1.7	3.2	4.9	6.7	8.2	9.4	10.0	10.0	9.3	8.1	6.5	4.7	2.9	1.5	0.5	0.1	88.4	88.3
-10	0.1	0.6	1.7	3.3	5.1	6.9	8.5	9.7	10.3	10.3	9.6	8.4	6.7	4.8	3.0	1.5	0.5	0.1	91.3	91.2
0	0.1	0.6	1.7	3.3	5.1	6.9	8.5	9.7	10.3	10.3	9.6	8.3	6.7	4.8	3.0	1.5	0.5	0.1	91.0	90.9
10	0.1	0.6	1.7	3.1	4.9	6.6	8.2	9.3	9.9	9.9	9.2	8.0	6.4	4.7	2.9	1.5	0.5	0.1	87.5	87.4
20	0.1	0.6	1.5	2.9	4.5	6.1	7.6	8.6	9.2	9.1	8.5	7.4	6.0	4.3	2.7	1.4	0.5	0.1	81.0	80.9
30	0.1	0.5	1.4	2.6	4.0	5.4	6.7	7.6	8.1	8.1	7.6	6.6	5.3	3.8	2.4	1.2	0.4	0.0	71.7	71.6
40	0.1	0.4	1.1	2.2	3.3	4.6	5.6	6.4	6.8	6.8	6.3	5.5	4.4	3.1	2.0	1.0	0.3	0.0	60.0	59.8
50	0.1	0.3	0.9	1.7	2.6	3.5	4.4	5.0	5.3	5.2	4.9	4.2	3.4	2.4	1.5	0.7	0.2	0.0	46.3	46.1
60	0.0	0.2	0.6	1.2	1.8	2.4	3.0	3.4	3.6	3.6	3.3	2.9	2.3	1.6	1.0	0.5	0.2	0.0	31.6	31.1
70	0.0	0.2	0.4	0.7	1.0	1.3	1.6	1.8	1.9	1.9	1.7	1.5	1.2	0.8	0.5	0.2	0.1	0.0	16.9	15.0
80	0.0	0.1	0.1	0.2	0.3	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.3	0.2	0.1	0.1	0.0	0.0	4.5	0.0
90	1.1	7.2	19.2	36.1	55.9	75.9	93.6	106.7	113.4	112.9	105.3	91.3	72.9	52.5	32.8	16.5	5.5	0.6	999	
Flux(T)	0.4	6.3	18.4	35.3	55.1	75.1	92.8	105.8	112.6	112.1	104.4	90.4	72.0	51.6	31.9	15.6	4.5	0.0		984
Flux(E)																				

Horizontal plane

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



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

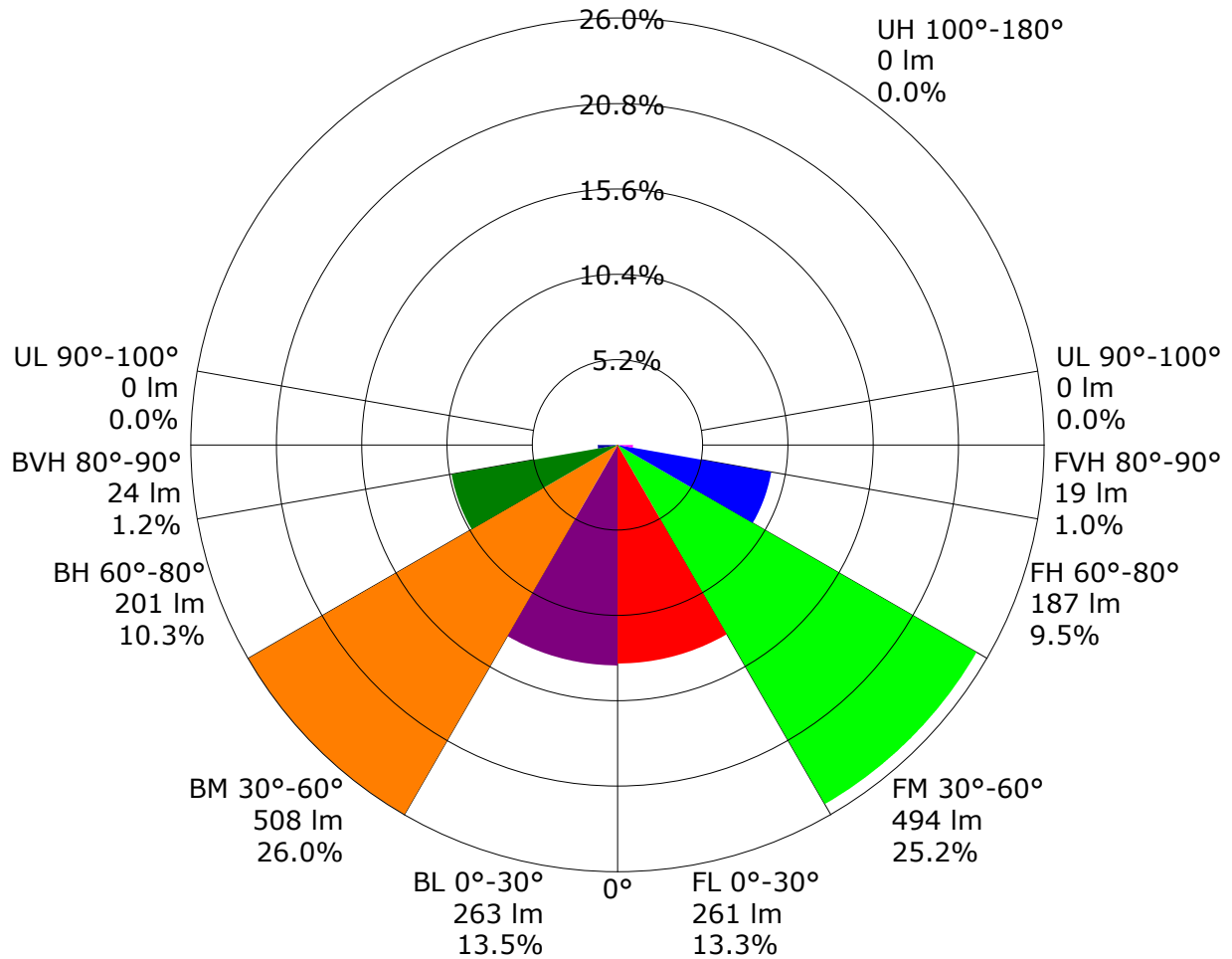
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	19.1	20.5	19.4	20.7	21.0	19.3	20.7	19.6	20.9	21.1
3H	20.6	21.9	20.9	22.2	22.4	20.9	22.1	21.2	22.4	22.7
4H	21.2	22.4	21.6	22.7	23.0	21.5	22.7	21.9	23.0	23.3
6H	21.6	22.8	22.0	23.1	23.4	22.0	23.1	22.4	23.4	23.8
8H	21.8	22.9	22.1	23.2	23.5	22.2	23.3	22.5	23.6	23.9
12H	21.8	22.9	22.2	23.2	23.6	22.3	23.3	22.6	23.6	24.0
X=4H Y=2H	19.8	21.0	20.1	21.3	21.6	19.9	21.1	20.3	21.4	21.7
3H	21.5	22.5	21.9	22.9	23.2	21.7	22.8	22.1	23.1	23.4
4H	22.2	23.2	22.6	23.5	23.9	22.5	23.4	22.9	23.8	24.2
6H	22.8	23.6	23.2	24.0	24.4	23.1	23.9	23.5	24.3	24.7
8H	23.0	23.7	23.4	24.1	24.5	23.3	24.1	23.8	24.5	24.9
12H	23.1	23.8	23.5	24.2	24.6	23.5	24.2	23.9	24.6	25.0
X=8H Y=4H	22.5	23.3	23.0	23.7	24.1	22.8	23.5	23.2	23.9	24.4
6H	23.2	23.9	23.7	24.3	24.8	23.5	24.2	24.0	24.6	25.1
8H	23.5	24.0	24.0	24.5	25.0	23.8	24.4	24.3	24.8	25.3
12H	23.7	24.1	24.2	24.6	25.1	24.0	24.5	24.5	25.0	25.5
X=12H Y=4H	22.6	23.3	23.0	23.7	24.1	22.8	23.5	23.3	23.9	24.4
6H	23.3	23.9	23.8	24.3	24.8	23.6	24.1	24.1	24.6	25.1
8H	23.6	24.1	24.1	24.6	25.1	23.9	24.4	24.4	24.9	25.4
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.1				
S=1.5H	+0.4/-0.5					+0.3/-0.4				
S=2.0H	+0.5/-0.9					+0.5/-0.7				

Calculate in accordance with CIE Pub.117. The table is revised with 1957Im ($8\log(F/F_0) = 2.3$).

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



Back Light

Forward Light

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)			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	0.56	0.66	0.74	0.79	0.87	0.92	0.95	1.00	1.03	
	0.30		0.48	0.58	0.66	0.72	0.80	0.86	0.90	0.96	0.99	
	0.20		0.42	0.53	0.60	0.66	0.75	0.81	0.86	0.92	0.96	
0.50	0.50	0.20	0.54	0.64	0.71	0.76	0.83	0.88	0.91	0.96	0.99	
	0.30		0.47	0.57	0.65	0.70	0.78	0.83	0.87	0.92	0.96	
	0.20		0.42	0.52	0.60	0.65	0.73	0.79	0.83	0.89	0.93	
0.30	0.50	0.20	0.53	0.62	0.69	0.74	0.80	0.85	0.88	0.92	0.95	
	0.30		0.46	0.56	0.63	0.69	0.76	0.81	0.84	0.89	0.92	
	0.20		0.42	0.51	0.59	0.64	0.72	0.77	0.81	0.87	0.90	
0.00	0.00	0.00	0.39	0.49	0.56	0.61	0.69	0.74	0.77	0.82	0.85	
Rating:18W 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	1.01	0.83	0.71	0.62	0.50	0.41	0.35	0.27	0.22	
	0.30		0.84	0.71	0.62	0.55	0.45	0.38	0.33	0.26	0.21	
	0.20		0.72	0.62	0.55	0.49	0.41	0.35	0.30	0.24	0.20	
0.50	0.50	0.20	0.97	0.80	0.68	0.60	0.48	0.43	0.34	0.26	0.21	
	0.30		0.82	0.70	0.60	0.53	0.43	0.36	0.32	0.25	0.20	
	0.20		0.72	0.62	0.54	0.48	0.40	0.34	0.30	0.24	0.20	
0.30	0.50	0.20	0.95	0.77	0.66	0.57	0.46	0.38	0.32	0.25	0.20	
	0.30		0.81	0.68	0.59	0.52	0.42	0.35	0.30	0.24	0.20	
	0.20		0.71	0.61	0.53	0.47	0.39	0.33	0.29	0.23	0.19	
0.00	0.00	0.00	0.61	0.51	0.44	0.39	0.32	0.26	0.23	0.18	0.15	
Rating:18W 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	0.16	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.22	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.06	0.08	0.09	0.11	0.13	0.14	0.16	0.17	
0.50	0.50	0.20	0.16	0.17	0.18	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		0.04	0.06	0.08	0.09	0.11	0.12	0.13	0.15	0.16	
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	0.19	0.20	0.20	
	0.30		0.09	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	
	0.20		0.04	0.06	0.07	0.09	0.11	0.12	0.13	0.15	0.16	
0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Rating:18W 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

[illegible]

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°): 1035.77 lm

%lum = 52.9%
%lamp = 52.9%

cone flux(120°): 1526.40 lm

%lum = 78.0%
%lamp = 78.0%

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:

LED Average Luminance Report

Avg.L	cd/m ²
L 0-180(65) av	6484.05
L 0-180(75) av	5900.30
L 0-180(85) av	4902.46
L 90-270(65) av	6460.52
L 90-270(75) av	5751.34
L 90-270(85) av	4197.47
L 45(65) av	6472.28
L 45(75) av	5825.82
L 45(85) av	4549.97

Standard: GB/T 29293-2012