

Report No.:

Test Time: 2024-11-09 09:51

Luminaire Property

Luminaire Manufacturer:
Luminaire Category:
Lamp Catalog: 3000K
Number of Lamps: 1
Luminous Length (mm): 110 mm
Luminous Height (mm): 0 mm
Current: 0.0390 A
Power Factor: 0.9070

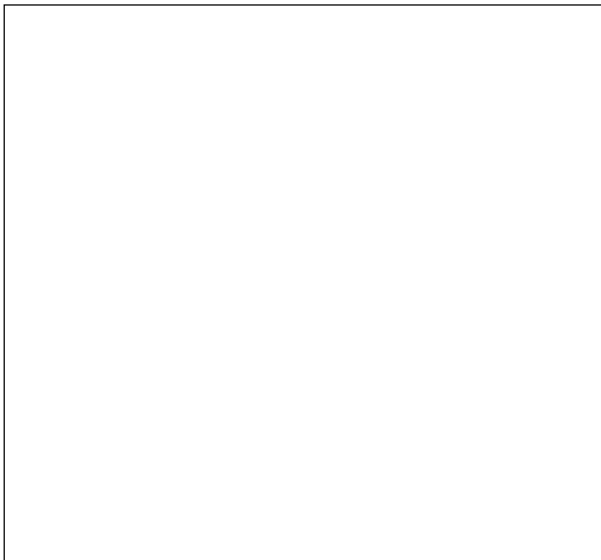
Luminaire Description: PROJ26
Lamp Description:
Lumens per Lamp: 817.7 lm
Luminous Width (mm): 110 mm
Voltage: 230.10 V
Power: 8.22 mW

Photometric Results

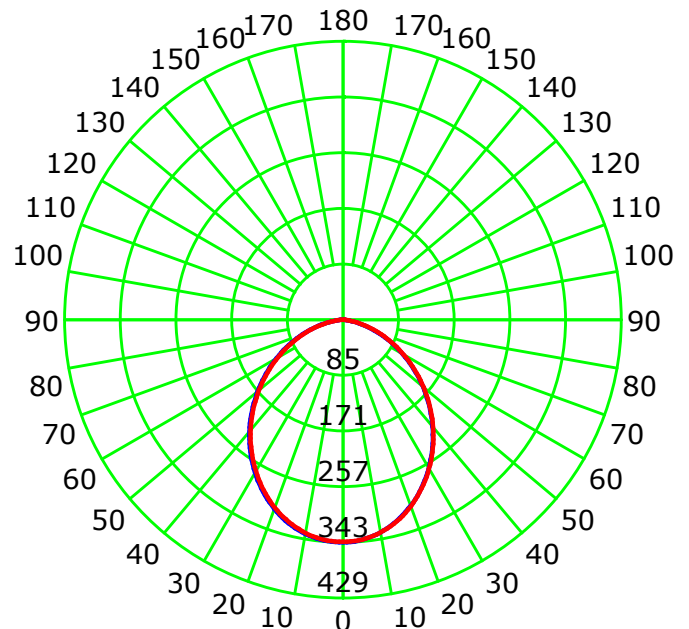
CIE Class: Direct
Measurement Flux: 817.7 lm
Downward Ratio: 99.99%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 152.0, 152.0, 152.0, 152.1
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 98.1, 98.0, 98.0, 98.0
Luminous Efficacy (lm/w): 99.47
Max. Intensity: 343.64 cd
S/MH(C0/C180): 1.17

Total Rated Lamp Lumens: 817.7 lm
Efficiency: 99.99%
Upward Ratio: 0.00%
C0r0 Intensity: 343.63 cd
Pos of Max. Intensity: H0 V0
S/MH(C90/C270): 1.17

Picture Of Luminaire



Luminous Intensity Distribution Curve



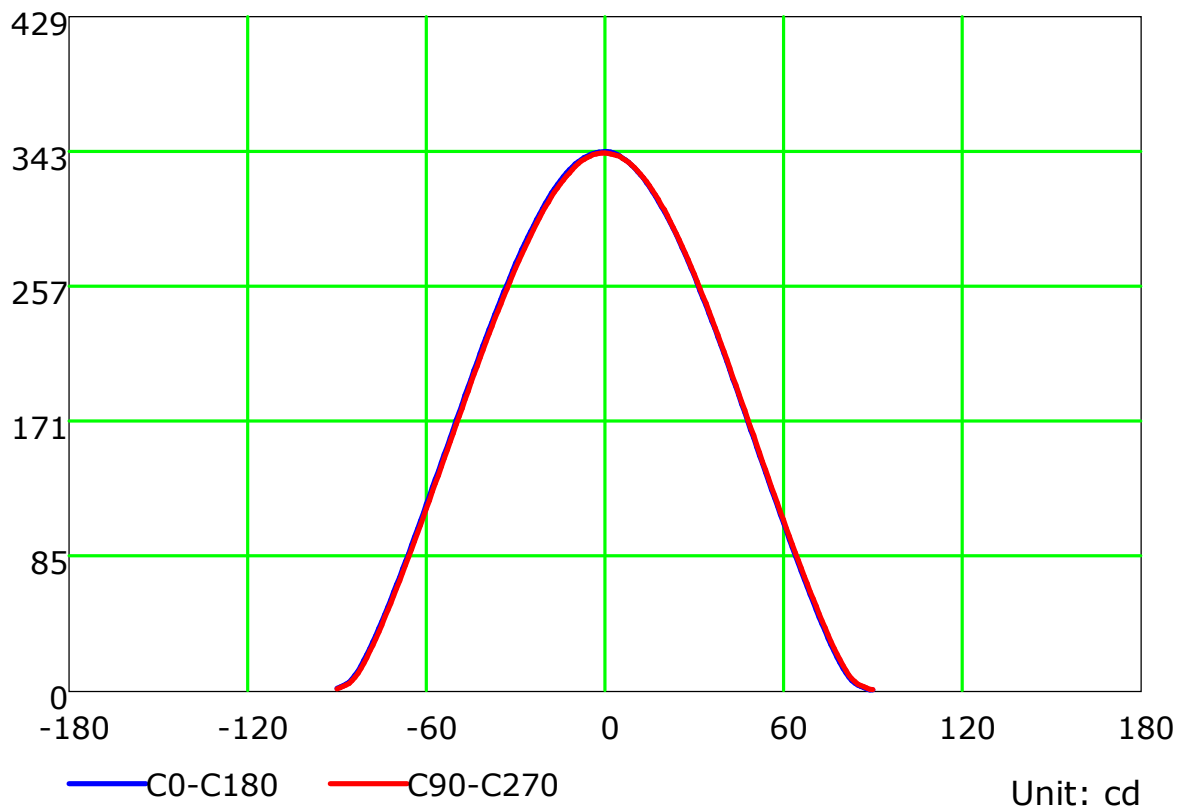
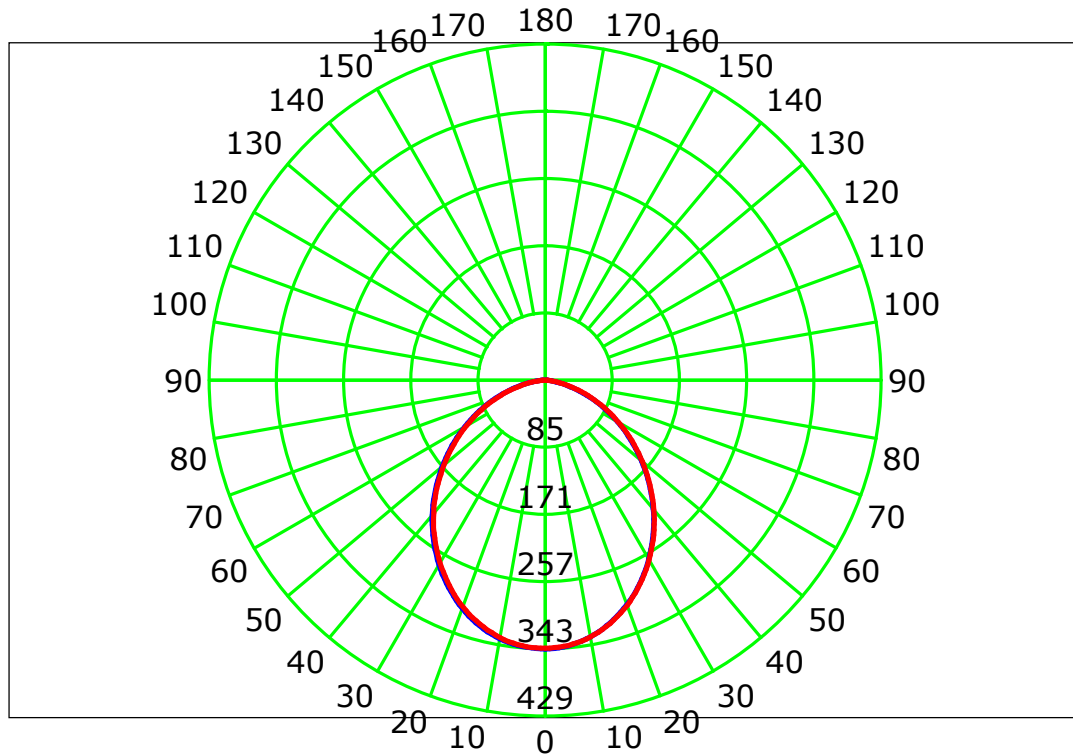
Unit: cd

— C0-C180 — C90-C270

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

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.172 m [K=1.0000]
Humidity:
Inspector:

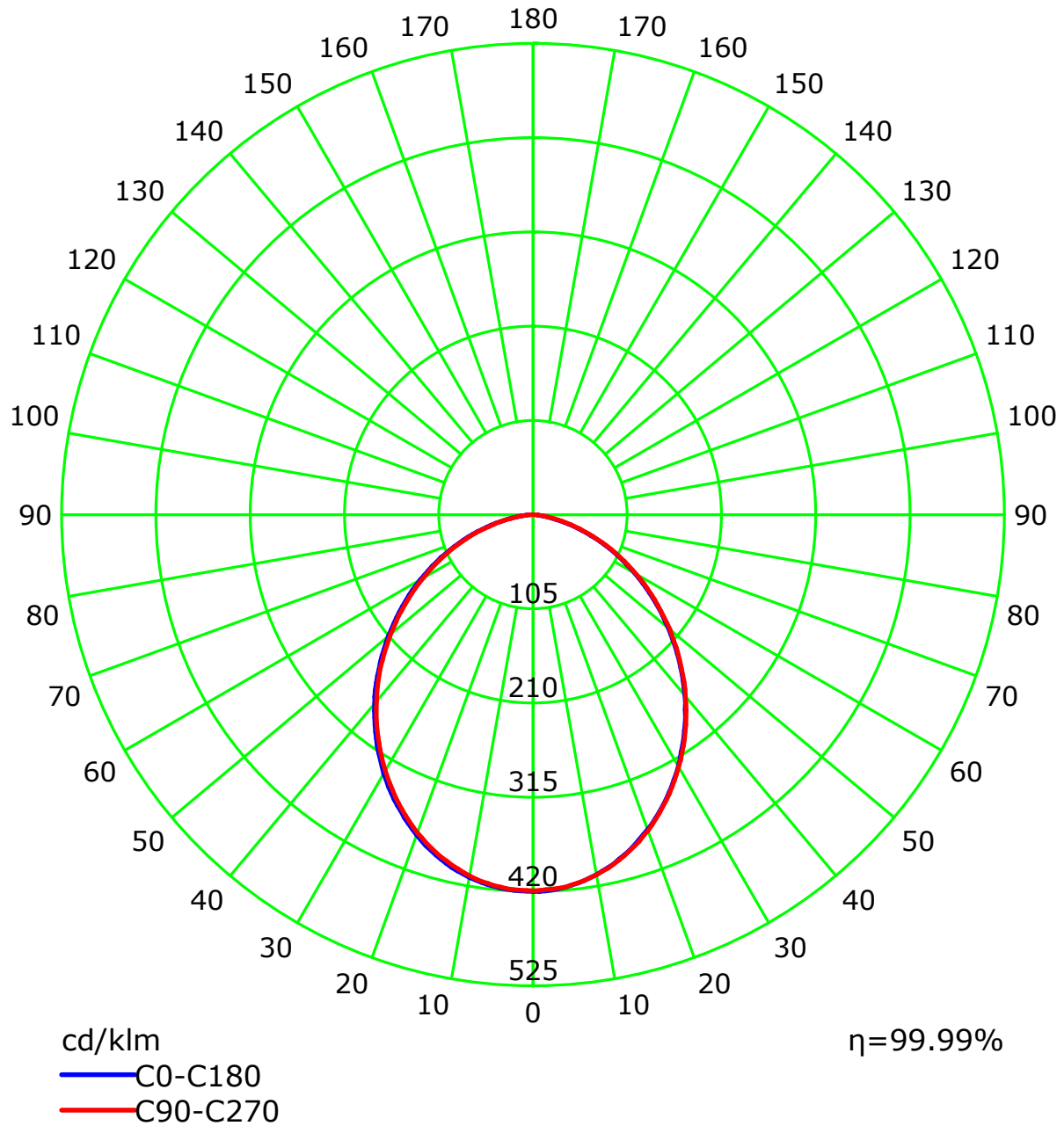
Luminous Intensity Distribution Curve



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

Gamma Plane (°):0.0-90.0:1.0
 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 (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 7.172 m [K=1.0000]
 Humidity:
 Inspector:

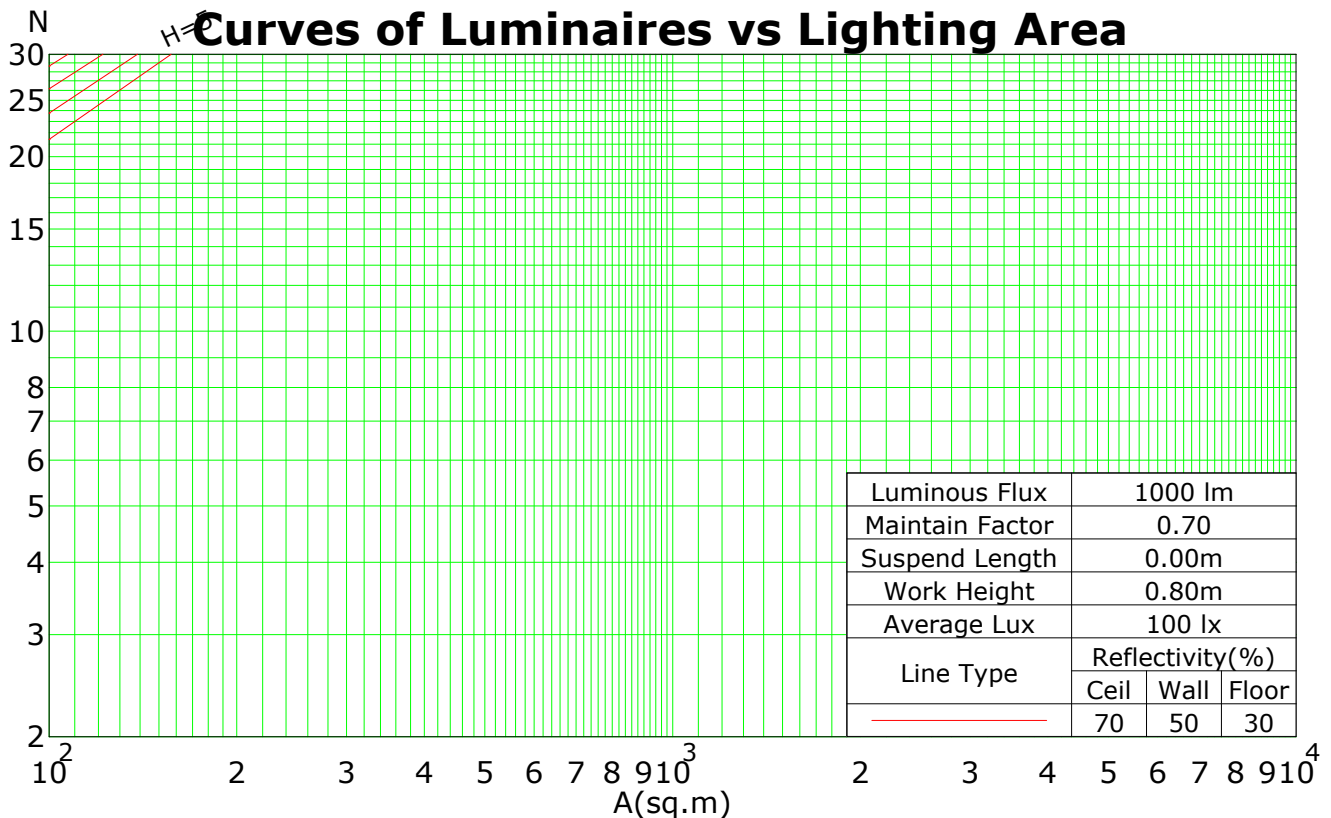
Coefficients Of Utilization - Zonal Cavity Method

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	1.05	1.01	0.98	1.07	1.03	0.99	0.96	0.99	0.96	0.93	0.95	0.93	0.90	0.91	0.89	0.88	0.86
2	1.00	0.93	0.86	0.81	0.98	0.91	0.85	0.80	0.87	0.82	0.78	0.84	0.80	0.76	0.81	0.78	0.75	0.73
3	0.92	0.82	0.74	0.68	0.89	0.80	0.73	0.67	0.77	0.71	0.66	0.75	0.70	0.65	0.72	0.68	0.64	0.62
4	0.84	0.73	0.65	0.58	0.82	0.72	0.64	0.58	0.69	0.62	0.57	0.67	0.61	0.56	0.65	0.60	0.56	0.53
5	0.78	0.66	0.57	0.51	0.76	0.64	0.56	0.50	0.62	0.55	0.50	0.60	0.54	0.49	0.59	0.53	0.49	0.47
6	0.72	0.59	0.51	0.44	0.70	0.58	0.50	0.44	0.57	0.49	0.44	0.55	0.48	0.44	0.53	0.48	0.43	0.41
7	0.67	0.54	0.45	0.40	0.65	0.53	0.45	0.39	0.52	0.44	0.39	0.50	0.44	0.39	0.49	0.43	0.39	0.37
8	0.63	0.49	0.41	0.35	0.61	0.49	0.41	0.35	0.47	0.40	0.35	0.46	0.40	0.35	0.45	0.39	0.35	0.33
9	0.58	0.45	0.37	0.32	0.57	0.45	0.37	0.32	0.44	0.37	0.32	0.43	0.36	0.32	0.42	0.36	0.31	0.30
10	0.55	0.42	0.34	0.29	0.54	0.41	0.34	0.29	0.41	0.34	0.29	0.40	0.33	0.29	0.39	0.33	0.29	0.27

Spacing Criteria (0-180): 1.17

Spacing Criteria (90-270): 1.17

Spacing Criteria (Diagonal): 1.27



C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

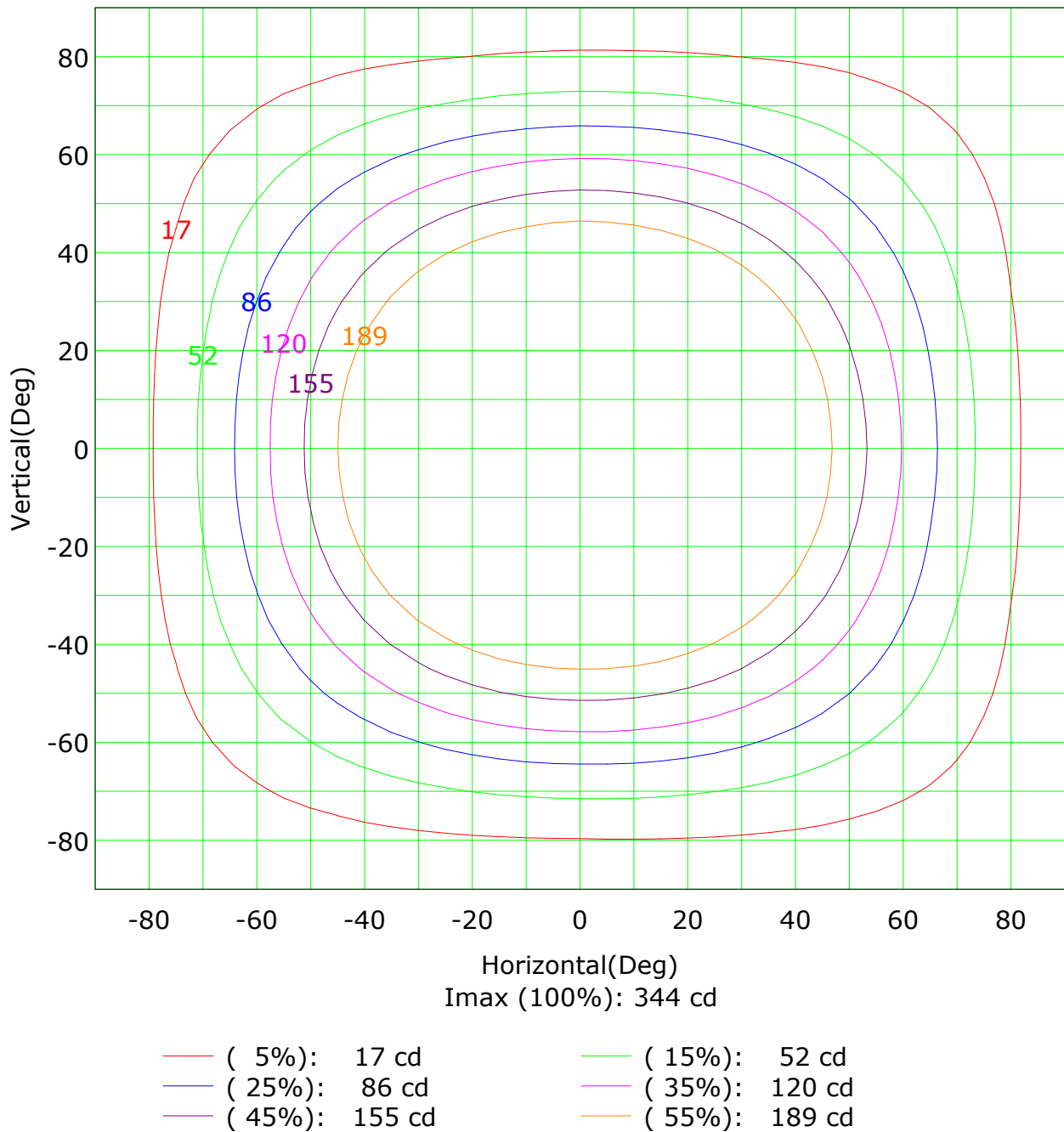
Test Device: GPM-1600L

Distance: 7.172 m [K=1.0000]

Humidity:

Inspector:

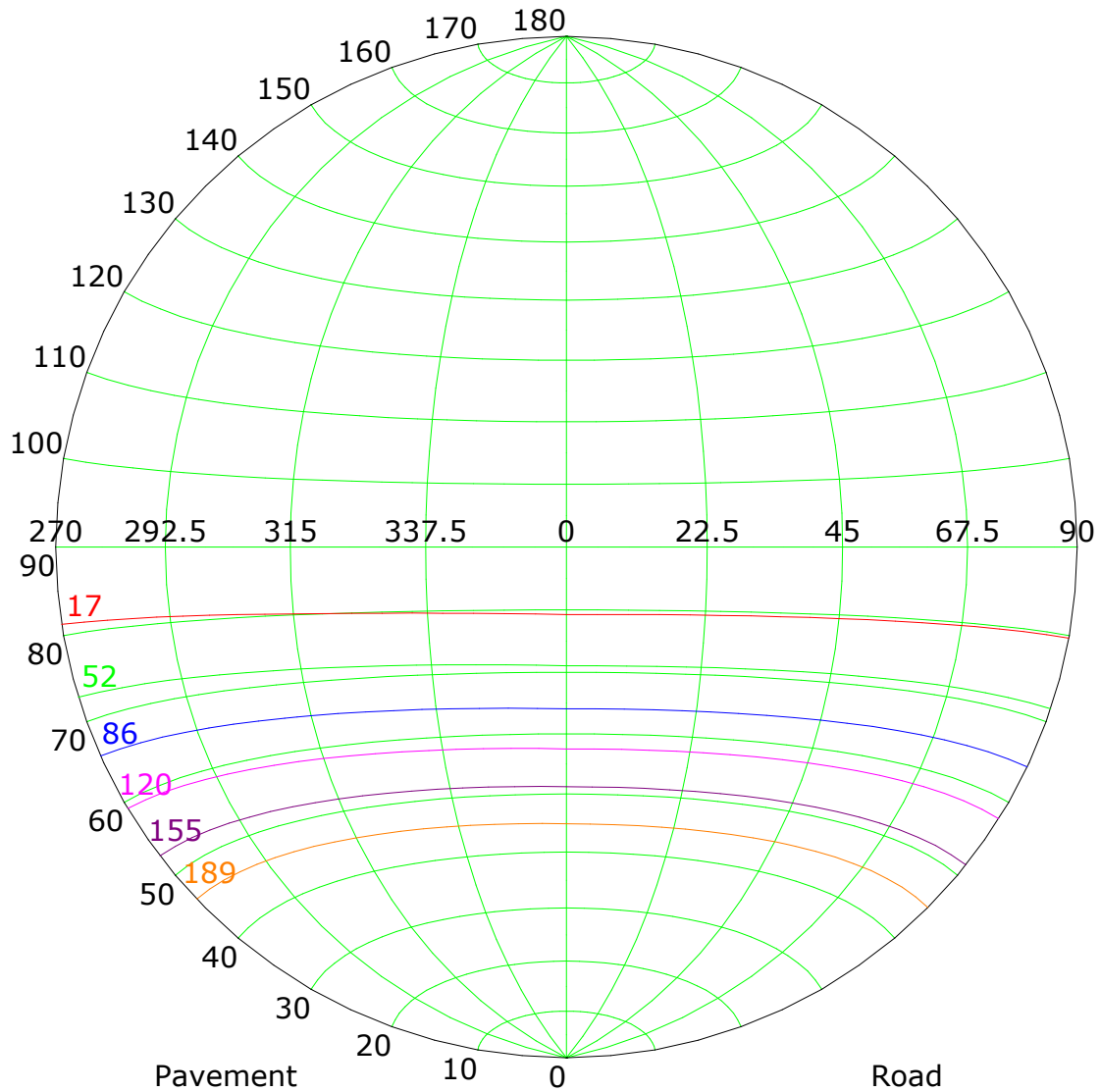
Isocandela (rectangle)



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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 7.172 m [K=1.0000]
 Humidity:
 Inspector:

Isocandela (sphere)



Imax (100%): 344 cd

(5%): 17 cd
(25%): 86 cd
(45%): 155 cd

(15%): 52 cd
(35%): 120 cd
(55%): 189 cd

CIE: narrow - short
CIE: Full-cut-off luminaire
Max.At90: 1.981 cd/klm

IES: Cut-off
Max.At80: 28.128 cd/klm
Max.80-90: 28.128 cd/klm

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

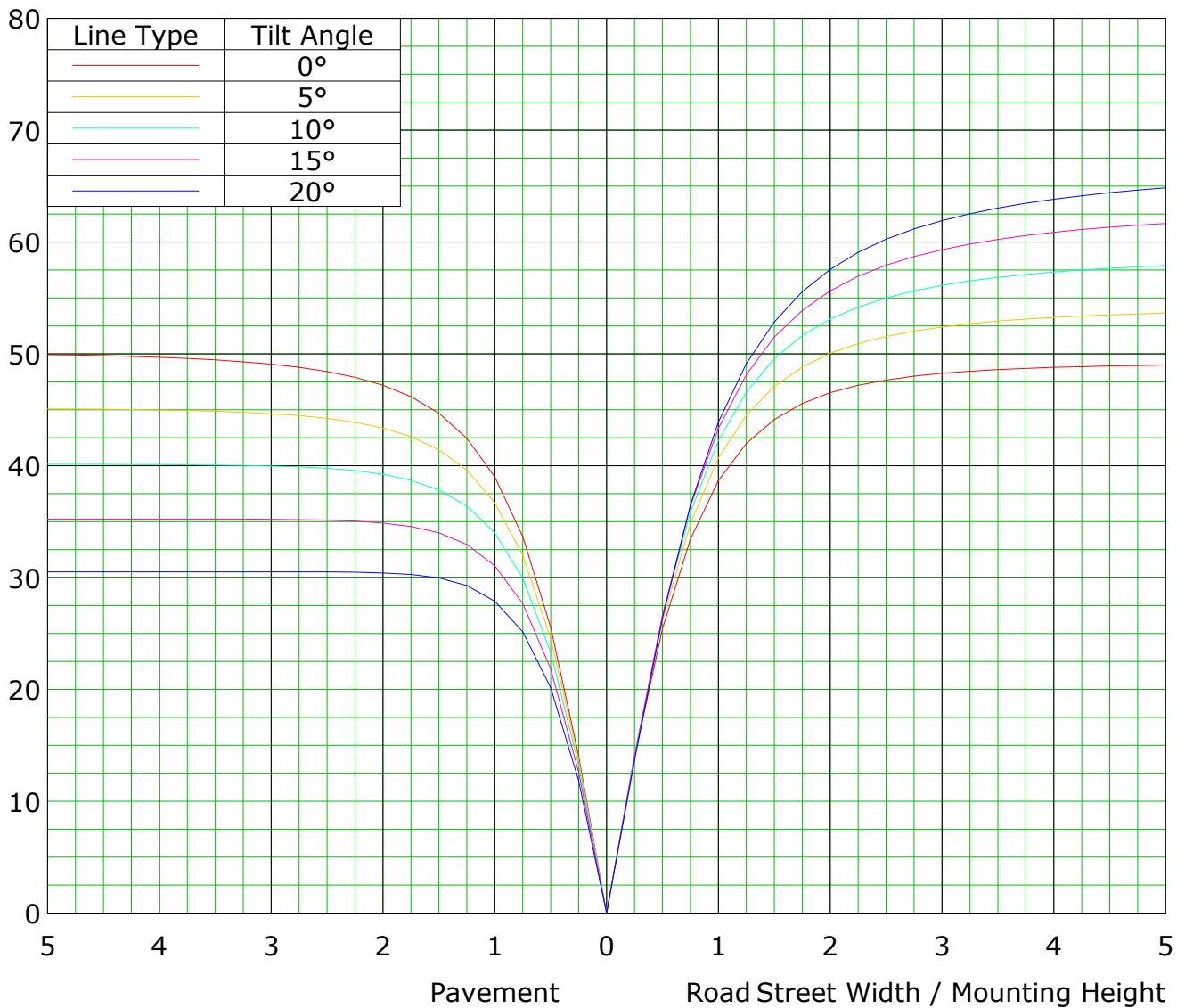
Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.172 m [K=1.0000]
Humidity:
Inspector:

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

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.172 m [K=1.0000]
Humidity:
Inspector:

Roadway CU Curve

Efficiency(%)



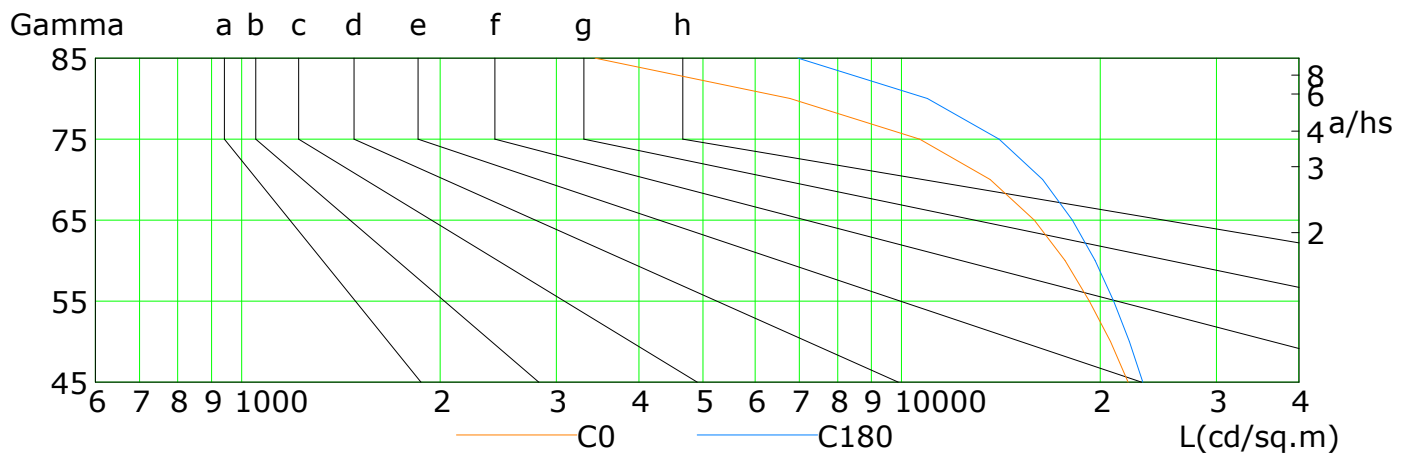
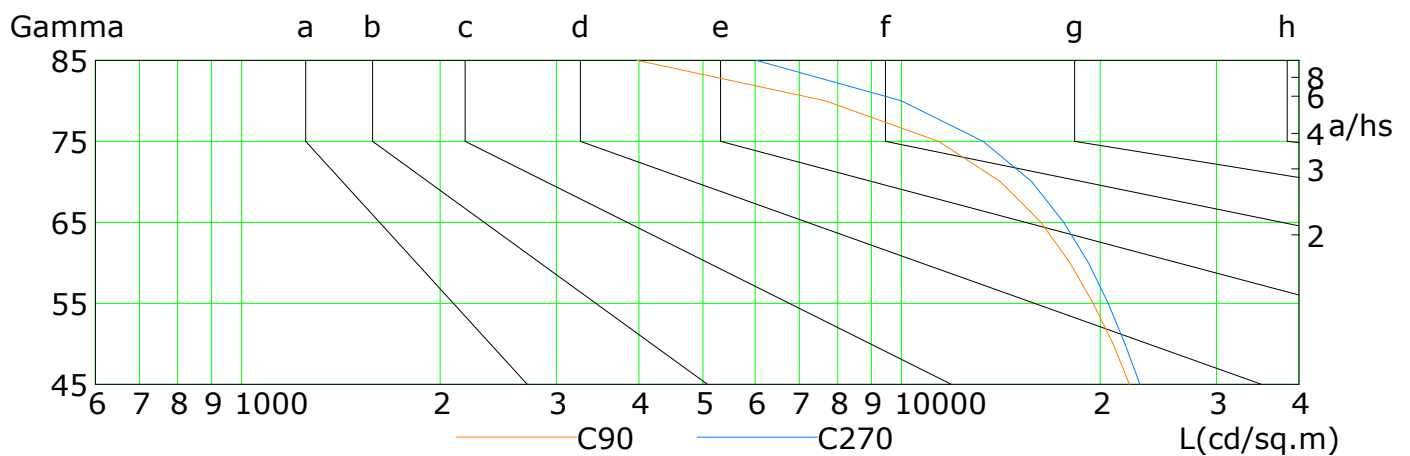
C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-90.0:1.0
 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	22036	20725	19266	17693	15885	13619	10652	6777	3433
C90	22137	20921	19517	17993	16270	14109	11374	7658	3973
C180	23212	22148	20960	19655	18149	16366	14056	10946	6970
C270	22975	21798	20561	19185	17614	15747	13293	9985	6021

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

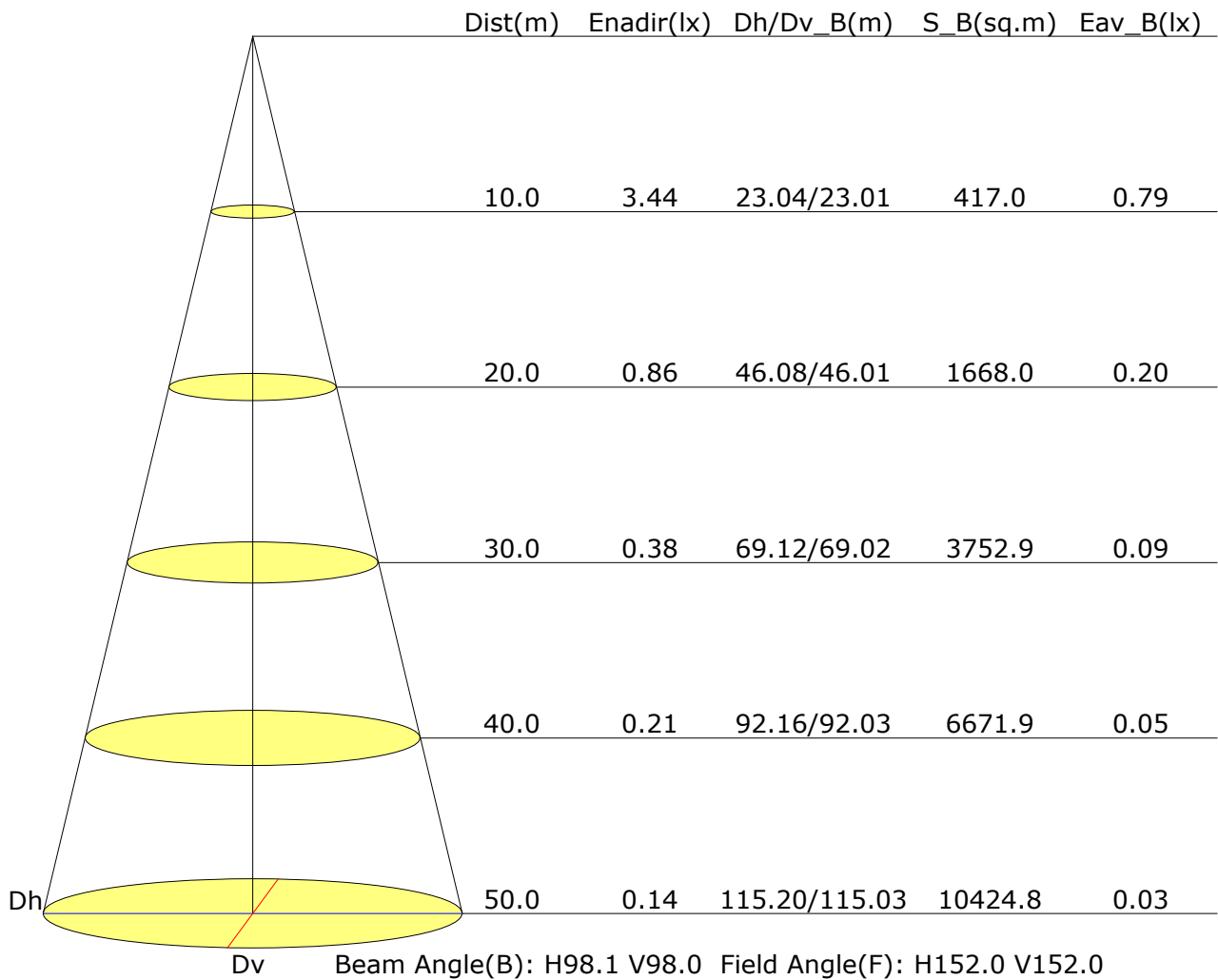
Test Device: GPM-1600L

Distance: 7.172 m [K=1.0000]

Humidity:

Inspector:

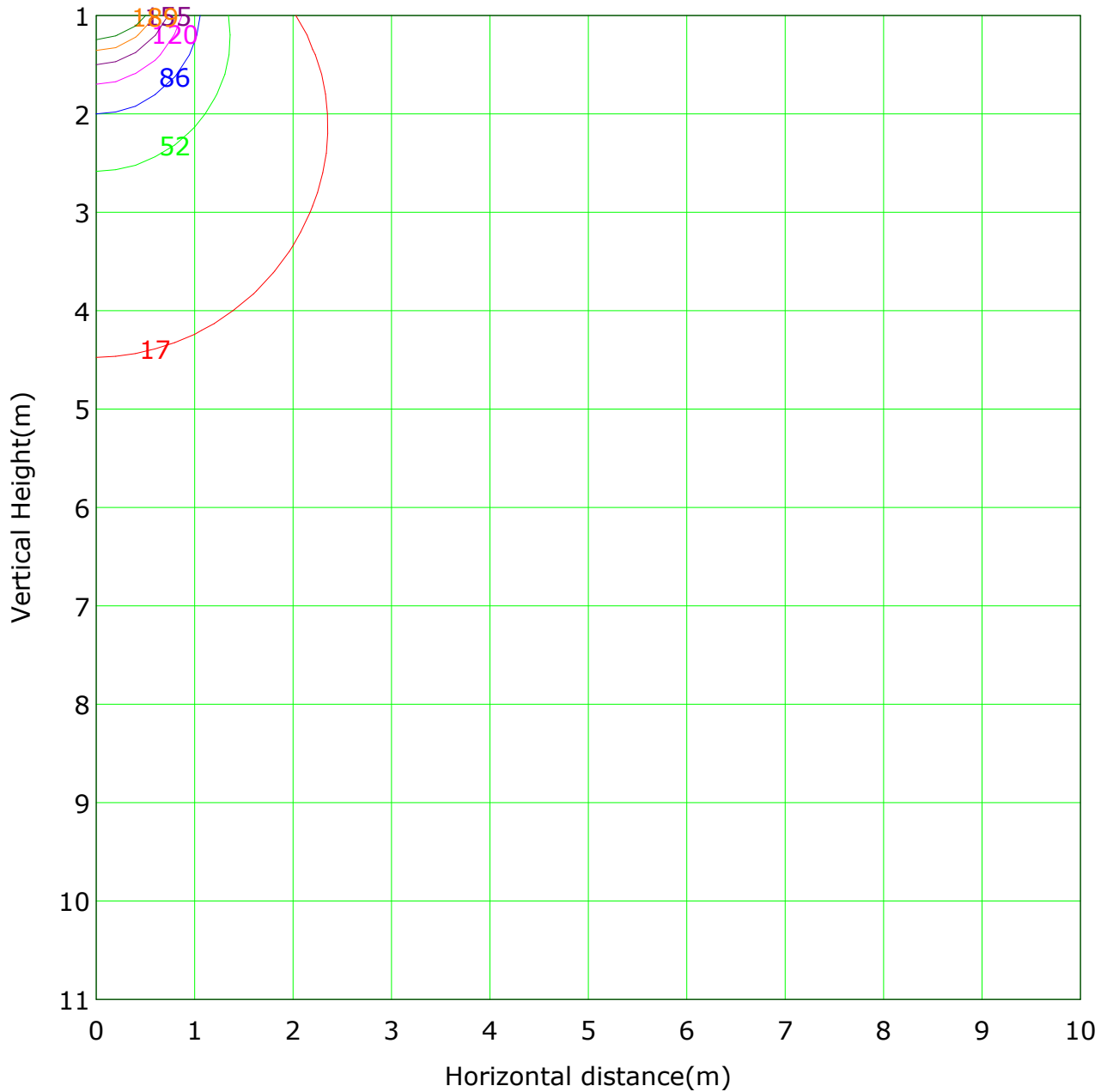
Illuminance at a Distance



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

Gamma Plane (°):0.0-90.0:1.0
 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: 343.6 lx
(5%): 17.2 lx	(15%): 51.5 lx	
(25%): 85.9 lx	(35%): 120.3 lx	
(45%): 154.6 lx	(55%): 189.0 lx	
(65%): 223.4 lx		

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 7.172 m [K=1.0000]
 Humidity:
 Inspector:

Area Flux Table

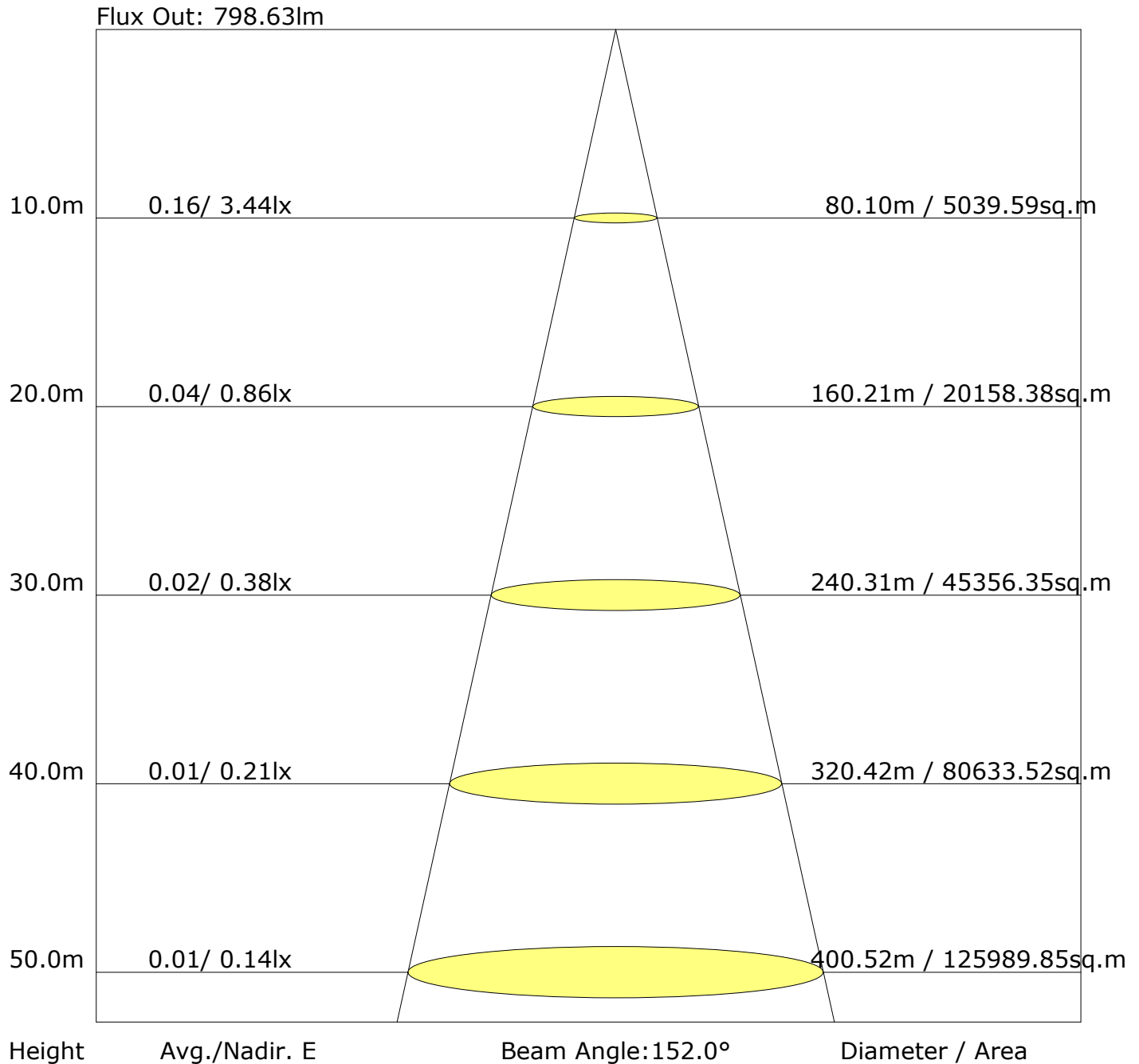
Unit: lm

Vertical plane	Horizontal plane																		
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90
Flux(E)	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Flux(T)	0.4	3.6	11.9	25.2	42.3	61.1	78.8	92.6	99.9	99.5	91.3	76.8	58.6	39.7	22.9	10.1	2.6	0.2	818
Flux(E)	0.0	2.1	10.8	24.2	41.2	60.0	77.7	91.5	98.9	98.5	90.3	75.7	57.5	38.6	21.8	8.9	1.1	0.0	799

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

Gamma Plane (°):0.0-90.0:1.0
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: 1.0
 Test Device: GPM-1600L
 Distance: 7.172 m [K=1.0000]
 Humidity:
 Inspector:

UGR Table

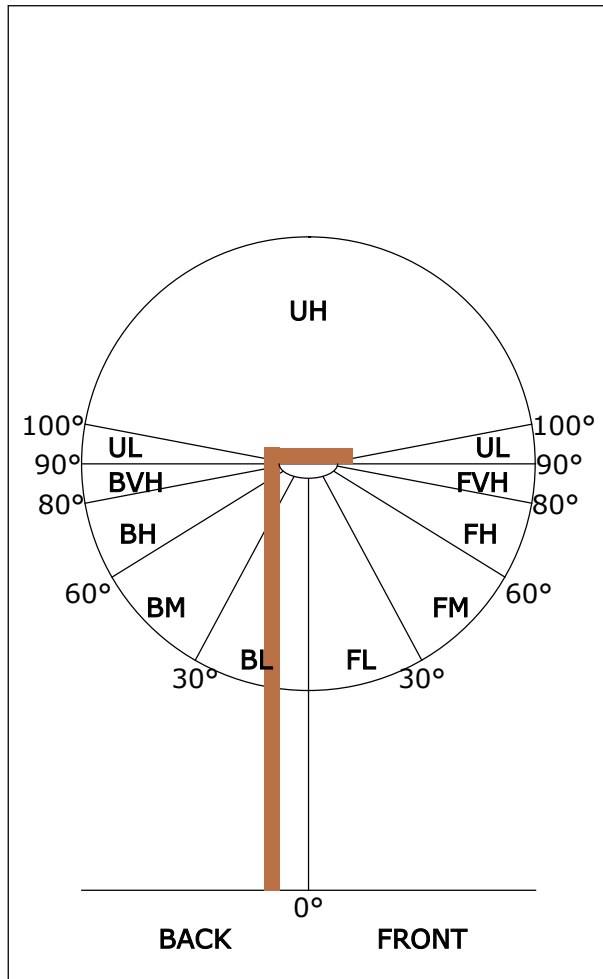
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	22.6	23.9	22.9	24.2	24.4	22.8	24.1	23.1	24.3	24.6
3H	23.7	24.9	24.1	25.2	25.5	24.0	25.2	24.3	25.5	25.7
4H	24.1	25.2	24.4	25.5	25.8	24.4	25.5	24.7	25.8	26.1
6H	24.2	25.3	24.6	25.6	25.9	24.6	25.7	25.0	26.0	26.3
8H	24.2	25.2	24.6	25.6	25.9	24.6	25.7	25.0	26.0	26.3
12H	24.2	25.2	24.6	25.5	25.8	24.6	25.6	25.0	25.9	26.3
X=4H Y=2H	23.2	24.3	23.5	24.6	24.9	23.3	24.4	23.7	24.7	25.0
3H	24.5	25.4	24.9	25.8	26.1	24.7	25.7	25.1	26.0	26.3
4H	24.9	25.8	25.3	26.1	26.5	25.2	26.1	25.6	26.4	26.8
6H	25.1	25.9	25.5	26.3	26.7	25.5	26.2	25.9	26.6	27.0
8H	25.1	25.8	25.6	26.2	26.7	25.5	26.2	26.0	26.6	27.1
12H	25.1	25.8	25.6	26.2	26.6	25.6	26.2	26.0	26.6	27.0
X=8H Y=4H	25.1	25.8	25.5	26.2	26.6	25.3	26.0	25.8	26.4	26.9
6H	25.4	25.9	25.8	26.4	26.8	25.7	26.3	26.2	26.7	27.2
8H	25.4	25.9	25.9	26.4	26.9	25.8	26.3	26.3	26.7	27.2
12H	25.4	25.9	25.9	26.3	26.8	25.8	26.3	26.3	26.7	27.2
X=12H Y=4H	25.1	25.7	25.5	26.1	26.6	25.3	26.0	25.8	26.4	26.8
6H	25.4	25.9	25.9	26.3	26.8	25.7	26.2	26.2	26.7	27.1
8H	25.4	25.9	25.9	26.3	26.8	25.8	26.2	26.3	26.7	27.2
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.2				
S=1.5H	+0.4/-0.7					+0.3/-0.6				
S=2.0H	+0.7/-1.3					+0.7/-1.1				

Calculate in accordance with CIE Pub.117. The table is revised with 818lm ($8\log(F/F_0) = -0.7$).

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

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.172 m [K=1.0000]
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



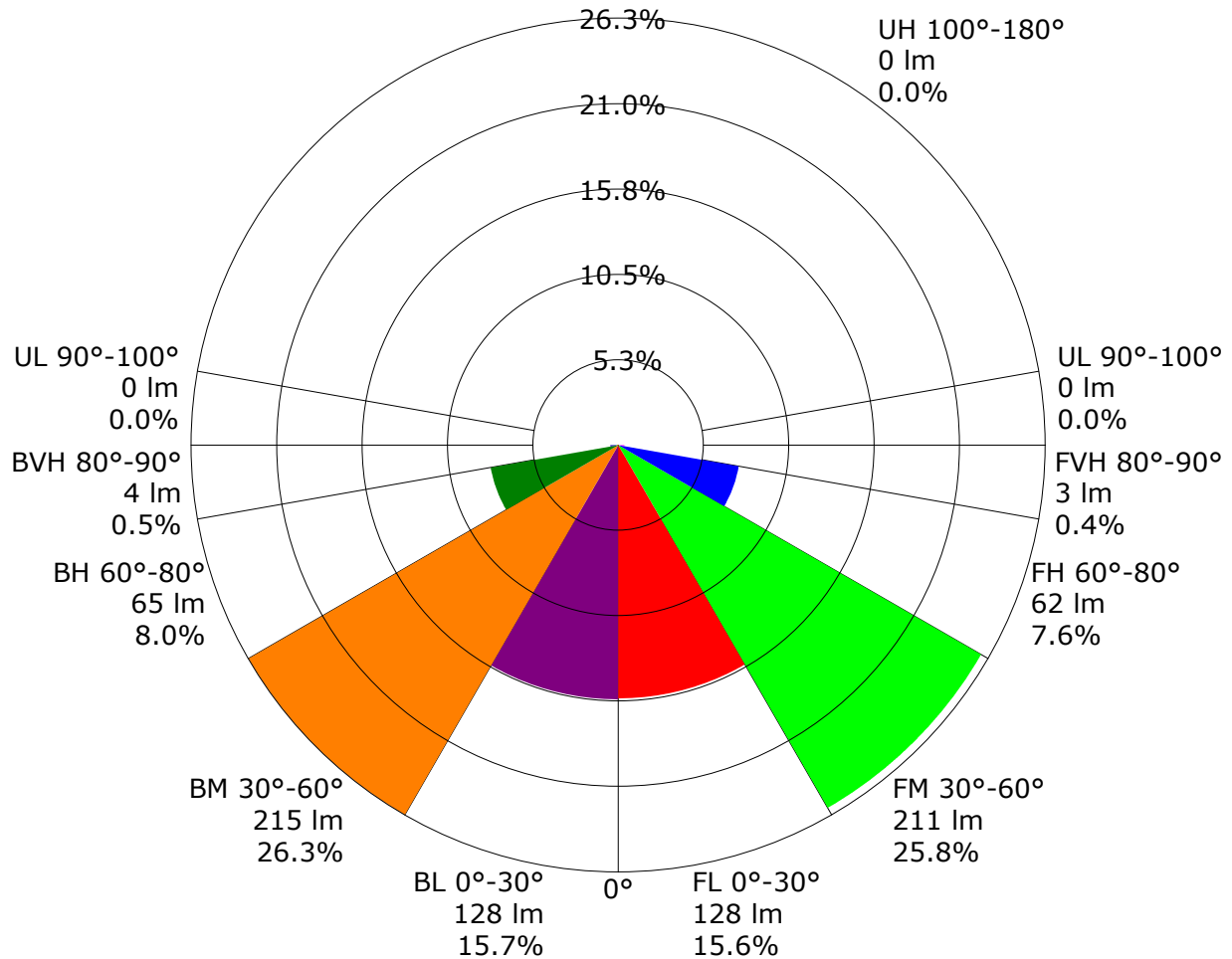
ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	405	49.5
FL (0°-30°)	128	15.6
FM (30°-60°)	211	25.8
FH (60°-80°)	62	7.6
FVH (80°-90°)	3	0.4
BACK LIGHT	413	50.5
BL (0°-30°)	128	15.7
BM (30°-60°)	215	26.3
BH (60°-80°)	65	8.0
BVH (80°-90°)	4	0.5
UP LIGHT	0	0.0
UL (90°-100°)	0	0.0
UH (100°-180°)	0	0.0
TRAPPED LIGHT	0	0.0

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U0 G0

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 7.172 m [K=1.0000]
 Humidity:
 Inspector:

LCS Graph



Back Light

Forward Light

Scale= MAX LCS%

Trapped Light:0 lm,0.0%

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	0.60	0.71	0.78	0.83	0.90	0.95	0.98	1.02	1.05	
	0.30		0.53	0.63	0.71	0.76	0.84	0.90	0.93	0.98	1.02	
	0.20		0.48	0.58	0.66	0.71	0.80	0.85	0.89	0.95	0.99	
0.50	0.50	0.20	0.59	0.69	0.75	0.80	0.87	0.91	0.94	0.98	1.01	
	0.30		0.52	0.62	0.69	0.75	0.82	0.87	0.90	0.95	0.98	
	0.20		0.47	0.57	0.65	0.70	0.78	0.83	0.87	0.92	0.96	
0.30	0.50	0.20	0.57	0.67	0.73	0.78	0.84	0.88	0.91	0.95	0.97	
	0.30		0.51	0.61	0.68	0.73	0.80	0.85	0.88	0.92	0.95	
	0.20		0.47	0.57	0.64	0.69	0.76	0.81	0.85	0.90	0.93	
0.00	0.00	0.00	0.45	0.54	0.61	0.66	0.73	0.78	0.81	0.85	0.88	
Rating:8W 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	0.94	0.77	0.65	0.56	0.45	0.37	0.31	0.24	0.20	
	0.30		0.79	0.66	0.57	0.50	0.40	0.34	0.29	0.23	0.19	
	0.20		0.67	0.57	0.50	0.45	0.37	0.31	0.27	0.21	0.18	
0.50	0.50	0.20	0.91	0.74	0.62	0.54	0.43	0.38	0.30	0.23	0.19	
	0.30		0.77	0.64	0.55	0.48	0.39	0.32	0.28	0.22	0.18	
	0.20		0.67	0.57	0.49	0.44	0.36	0.30	0.26	0.21	0.17	
0.30	0.50	0.20	0.88	0.71	0.60	0.52	0.41	0.33	0.28	0.22	0.18	
	0.30		0.75	0.62	0.53	0.47	0.37	0.31	0.27	0.21	0.17	
	0.20		0.66	0.56	0.48	0.43	0.35	0.29	0.25	0.20	0.16	
0.00	0.00	0.00	0.55	0.46	0.39	0.34	0.27	0.22	0.19	0.15	0.12	
Rating:8W 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	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	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	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.20	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	0.06	0.08	0.09	0.11	0.13	0.14	0.15	0.17	
0.30	0.50	0.20	0.15	0.16	0.17	0.17	0.18	0.19	0.19	0.19	0.20	
	0.30		0.09	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	
	0.20		0.05	0.06	0.08	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:8W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	343.1	0.3	0.3	0.04	0.04
1.0-2.0	342.9	1.0	1.3	0.12	0.16
2.0-3.0	342.6	1.6	3.0	0.20	0.36
3.0-4.0	342.0	2.3	5.2	0.28	0.64
4.0-5.0	341.4	2.9	8.2	0.36	1.00
5.0-6.0	340.4	3.6	11.8	0.44	1.44
6.0-7.0	339.3	4.2	16.0	0.52	1.95
7.0-8.0	338.0	4.8	20.8	0.59	2.54
8.0-9.0	336.6	5.5	26.3	0.67	3.21
9.0-10.0	335.0	6.1	32.3	0.74	3.95
10.0-11.0	333.1	6.7	39.0	0.81	4.77
11.0-12.0	331.0	7.2	46.2	0.89	5.65
12.0-13.0	329.0	7.8	54.0	0.95	6.61
13.0-14.0	326.6	8.4	62.4	1.02	7.63
14.0-15.0	324.1	8.9	71.3	1.09	8.72
15.0-16.0	321.5	9.4	80.7	1.15	9.87
16.0-17.0	318.6	9.9	90.6	1.21	11.08
17.0-18.0	315.7	10.4	101.0	1.27	12.36
18.0-19.0	312.6	10.9	111.9	1.33	13.69
19.0-20.0	309.3	11.3	123.2	1.38	15.07
20.0-21.0	306.0	11.8	135.0	1.44	16.51
21.0-22.0	302.5	12.2	147.2	1.49	18.00
22.0-23.0	298.9	12.5	159.7	1.53	19.53
23.0-24.0	295.1	12.9	172.6	1.58	21.11
24.0-25.0	291.1	13.2	185.8	1.62	22.73
25.0-26.0	287.2	13.6	199.4	1.66	24.38
26.0-27.0	283.1	13.9	213.2	1.69	26.08
27.0-28.0	278.9	14.1	227.4	1.73	27.81
28.0-29.0	274.7	14.4	241.7	1.76	29.56
29.0-30.0	270.3	14.6	256.3	1.78	31.35
30.0-31.0	265.8	14.8	271.1	1.81	33.16
31.0-32.0	261.1	15.0	286.1	1.83	34.99
32.0-33.0	256.4	15.1	301.2	1.85	36.83
33.0-34.0	251.8	15.2	316.4	1.86	38.70
34.0-35.0	247.0	15.3	331.8	1.88	40.57
35.0-36.0	242.2	15.4	347.2	1.89	42.46

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 7.172 m [K=1.0000]
 Humidity:
 Inspector:

Zonal Lumen (Continue 1)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	237.3	15.5	362.7	1.89	44.35
37.0-38.0	232.3	15.5	378.2	1.90	46.25
38.0-39.0	227.3	15.5	393.7	1.90	48.15
39.0-40.0	222.2	15.5	409.2	1.90	50.04
40.0-41.0	217.0	15.5	424.7	1.89	51.93
41.0-42.0	212.0	15.4	440.1	1.88	53.82
42.0-43.0	206.6	15.3	455.4	1.87	55.69
43.0-44.0	201.2	15.2	470.6	1.86	57.55
44.0-45.0	195.9	15.1	485.6	1.84	59.39
45.0-46.0	190.6	14.9	500.5	1.82	61.21
46.0-47.0	185.2	14.7	515.3	1.80	63.01
47.0-48.0	179.7	14.5	529.8	1.78	64.79
48.0-49.0	174.2	14.3	544.1	1.75	66.54
49.0-50.0	169.0	14.1	558.2	1.72	68.26
50.0-51.0	163.5	13.8	572.0	1.69	69.96
51.0-52.0	158.0	13.6	585.6	1.66	71.61
52.0-53.0	152.7	13.3	598.9	1.63	73.24
53.0-54.0	147.3	13.0	611.9	1.59	74.83
54.0-55.0	142.0	12.7	624.5	1.55	76.38
55.0-56.0	136.6	12.3	636.9	1.51	77.89
56.0-57.0	131.2	12.0	648.9	1.47	79.35
57.0-58.0	126.1	11.7	660.5	1.43	80.78
58.0-59.0	120.7	11.3	671.8	1.38	82.16
59.0-60.0	115.3	10.9	682.7	1.33	83.49
60.0-61.0	110.0	10.5	693.2	1.28	84.78
61.0-62.0	104.7	10.1	703.3	1.23	86.01
62.0-63.0	99.7	9.7	713.0	1.19	87.20
63.0-64.0	94.4	9.3	722.3	1.13	88.33
64.0-65.0	89.3	8.8	731.1	1.08	89.41
65.0-66.0	84.3	8.4	739.5	1.03	90.44
66.0-67.0	79.1	8.0	747.5	0.97	91.41
67.0-68.0	74.2	7.5	755.0	0.92	92.33
68.0-69.0	69.3	7.1	762.1	0.86	93.19
69.0-70.0	64.3	6.6	768.7	0.81	94.00
70.0-71.0	59.6	6.2	774.8	0.75	94.76
71.0-72.0	54.8	5.7	780.5	0.70	95.45

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 7.172 m [K=1.0000]
 Humidity:
 Inspector:

Zonal Lumen (Continue 2)

[illegible]

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

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.172 m [K=1.0000]
Humidity:
Inspector:

Zonal Lumen (Continue 3)

cone flux(90°): 485.62 lm

%lum = 59.4%
%lamp = 59.4%

cone flux(120°): 682.72 lm

%lum = 83.5%
%lamp = 83.5%

Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0
G0.0	343.6	342.6	343.6	342.6	343.6
G1.0	343.5	342.5	343.4	342.6	343.5
G2.0	343.2	342.0	343.3	342.5	343.2
G3.0	342.7	341.7	342.8	342.1	342.7
G4.0	341.8	341.1	342.4	341.7	341.8
G5.0	340.9	340.6	341.7	340.7	340.9
G6.0	339.5	339.3	340.8	339.9	339.5
G7.0	338.3	338.0	339.8	338.7	338.3
G8.0	336.8	336.8	338.5	337.5	336.8
G9.0	334.9	335.1	337.2	336.0	334.9
G10.0	333.2	333.4	335.8	334.2	333.2
G11.0	331.0	331.2	333.8	332.2	331.0
G12.0	328.8	329.3	332.0	329.9	328.8
G13.0	326.8	327.0	330.1	328.0	326.8
G14.0	323.7	324.5	327.6	325.4	323.7
G15.0	321.2	322.0	325.1	323.1	321.2
G16.0	318.3	319.0	322.6	320.4	318.3
G17.0	315.2	316.1	319.8	317.7	315.2
G18.0	311.9	313.1	317.1	314.9	311.9
G19.0	308.6	309.5	313.8	311.5	308.6
G20.0	305.3	306.5	310.6	308.5	305.3
G21.0	302.0	302.9	307.2	305.2	302.0
G22.0	298.4	299.1	303.8	301.4	298.4
G23.0	294.7	295.3	300.4	298.0	294.7
G24.0	290.6	291.3	296.3	294.0	290.6
G25.0	286.5	287.4	292.7	290.1	286.5
G26.0	282.3	283.3	289.0	286.2	282.3
G27.0	278.0	278.9	284.7	282.0	278.0
G28.0	273.6	274.7	281.0	278.0	273.6
G29.0	269.3	270.3	276.6	273.9	269.3
G30.0	264.7	265.5	272.4	269.4	264.7
G31.0	259.9	260.9	267.9	265.3	259.9
G32.0	254.8	256.2	263.1	260.5	254.8
G33.0	250.3	251.5	258.7	256.0	250.3
G34.0	245.5	246.9	254.4	251.3	245.5
G35.0	240.5	241.8	249.4	246.4	240.5

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

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.172 m [K=1.0000]
Humidity:
Inspector:

Candlepower Table(Continue 1)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0
G36.0	235.6	236.9	244.7	241.9	235.6
G37.0	230.6	231.4	239.9	237.3	230.6
G38.0	225.3	226.7	234.9	232.1	225.3
G39.0	220.5	221.6	230.2	227.3	220.5
G40.0	215.1	216.1	224.9	222.1	215.1
G41.0	209.8	211.1	220.1	217.1	209.8
G42.0	204.6	205.9	215.0	212.2	204.6
G43.0	198.9	200.1	209.5	206.9	198.9
G44.0	193.7	194.9	204.3	201.6	193.7
G45.0	188.5	189.4	198.6	196.6	188.5
G46.0	182.7	184.1	193.6	190.9	182.7
G47.0	177.5	178.9	188.4	185.5	177.5
G48.0	171.8	173.1	182.6	179.9	171.8
G49.0	166.2	167.8	177.4	174.9	166.2
G50.0	161.2	162.7	172.3	169.5	161.2
G51.0	155.3	156.9	166.5	163.9	155.3
G52.0	149.9	151.6	161.4	158.8	149.9
G53.0	144.9	145.9	155.8	153.5	144.9
G54.0	139.0	140.7	150.6	148.0	139.0
G55.0	133.7	135.4	145.5	142.7	133.7
G56.0	128.2	130.0	139.9	137.3	128.2
G57.0	122.9	124.7	134.9	132.0	122.9
G58.0	117.9	119.5	129.7	127.0	117.9
G59.0	112.3	114.0	124.1	121.3	112.3
G60.0	107.0	108.9	118.9	116.1	107.0
G61.0	101.9	103.3	113.2	110.6	101.9
G62.0	96.4	98.4	108.2	105.7	96.4
G63.0	91.6	93.3	103.2	100.6	91.6
G64.0	85.9	87.9	97.8	95.1	85.9
G65.0	81.2	83.2	92.8	90.1	81.2
G66.0	76.2	78.2	87.2	85.3	76.2
G67.0	70.8	72.8	82.4	80.0	70.8
G68.0	66.2	68.2	77.7	75.1	66.2
G69.0	61.3	63.1	72.4	70.0	61.3
G70.0	56.4	58.4	67.7	65.2	56.4
G71.0	51.6	53.9	62.9	60.5	51.6

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 7.172 m [K=1.0000]
 Humidity:
 Inspector:

Candlepower Table(Continue 2)

Unit: cd

[illegible]

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

Gamma Plane (°):0.0-90.0:1.0
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	17017.10
L 0-180(75) av	12354.27
L 0-180(85) av	5201.10
L 90-270(65) av	16941.81
L 90-270(75) av	12333.52
L 90-270(85) av	4997.23
L 45(65) av	16979.45
L 45(75) av	12343.90
L 45(85) av	5099.17

Standard: GB/T 29293-2012