Report No.: TH-6546A

Test Time: 2026/11/13 10:34

Luminaire Property

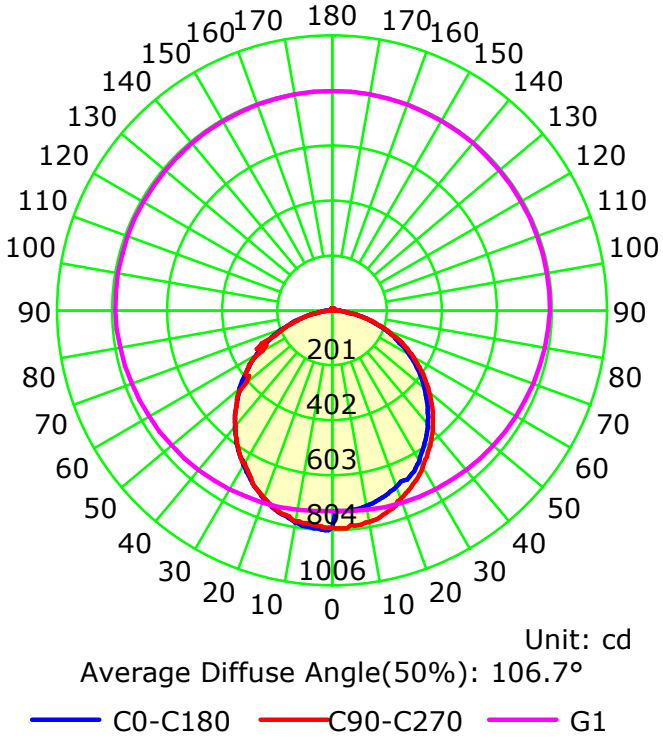
Luminaire Manufacturer:
Luminaire Category:
Luminaire Description: 63967LEDD
Lamp Catalog:
Lamp Description:
Number of Lamps:
Lumens per Lamp:
Luminous Length (mm):
Luminous Width (mm):
Luminous Height (mm):
Voltage: 120.1 V
Current: 0.673 A
Power: 47.40 W
Power Factor: 0.586

Photometric Results

CIE Class: Direct
Total Rated Lamp Lumens: 2209.3 lm
Measurement Flux: 2209.3 lm
Efficiency: 100%
Downward Ratio: 98%
Upward Ratio: 2%
Horizontal Diffuse Angle(50%): H107.3
Vertical Diffuse Angle(50%): V106.6
Luminaire Efficacy Rating (LER): 46.66
C0r0 Intensity: 795.48 cd
Max. Intensity: 804.91 cd
Pos of Max. Intensity: H180 V1
S/MH(C0/C180): 1.20
S/MH(C90/C270): 1.23

Picture Of Luminaire

Luminous Intensity Distribution Curve



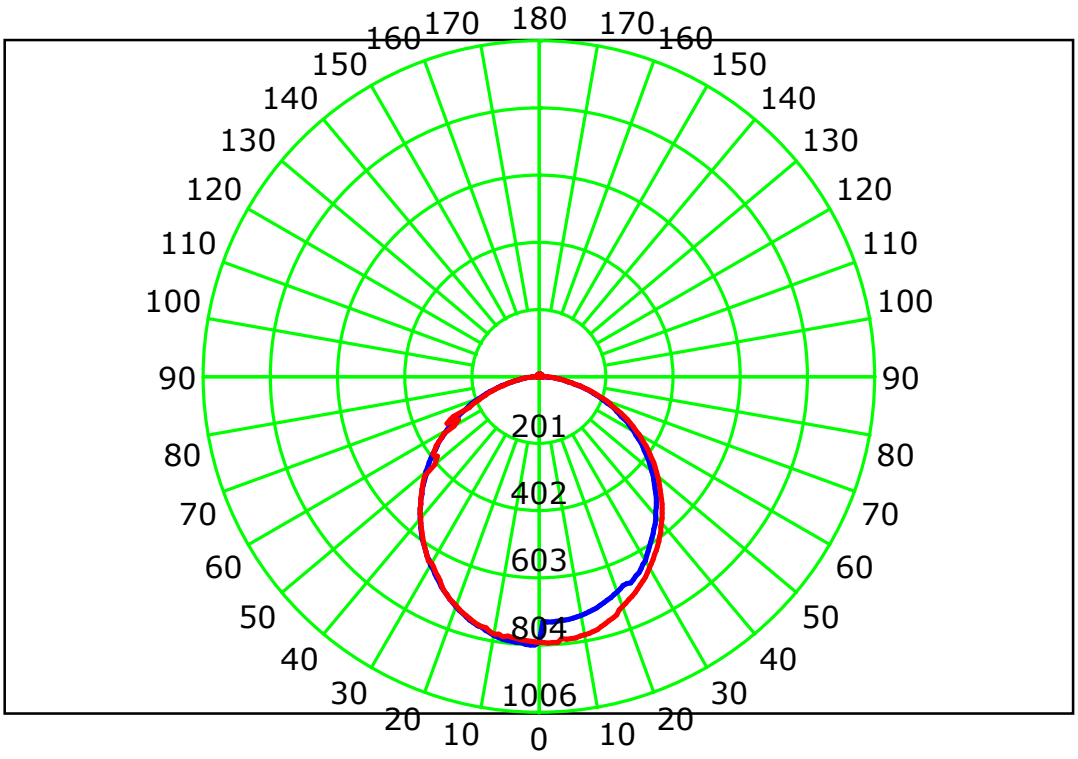
Unit: cd

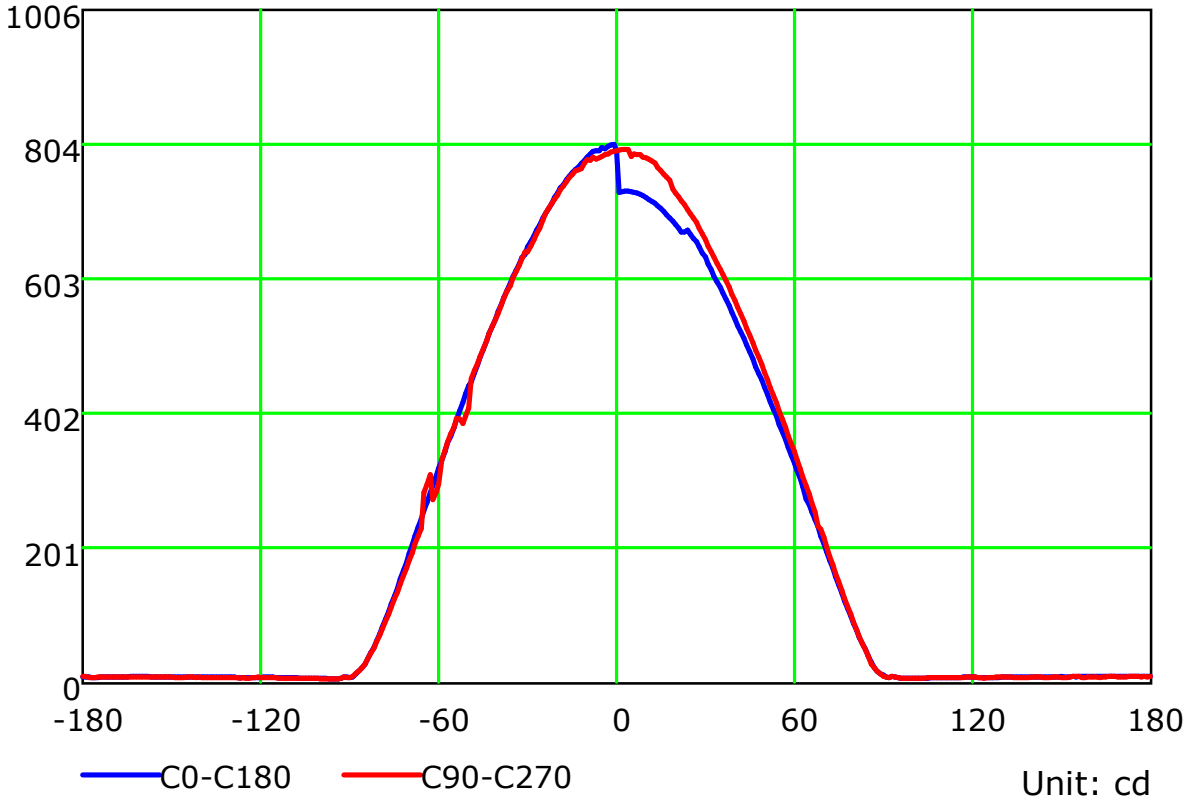
Average Diffuse Angle(50%): 106.7°

C0-C180 C90-C270 G1

C Plane (°):0.0-360.0: 90.0
Gamma Plane (°):0.0-180.0:1.0
Test Lab: Inventfine instruments
Test Device: GPM-1800B
Test Type: TYPE C
Distance: 8.705 m [K=1.0000]
Temperature: 26
Humidity: 65
Operator:
Inspector:

Luminous Intensity Distribution Curve





C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator:

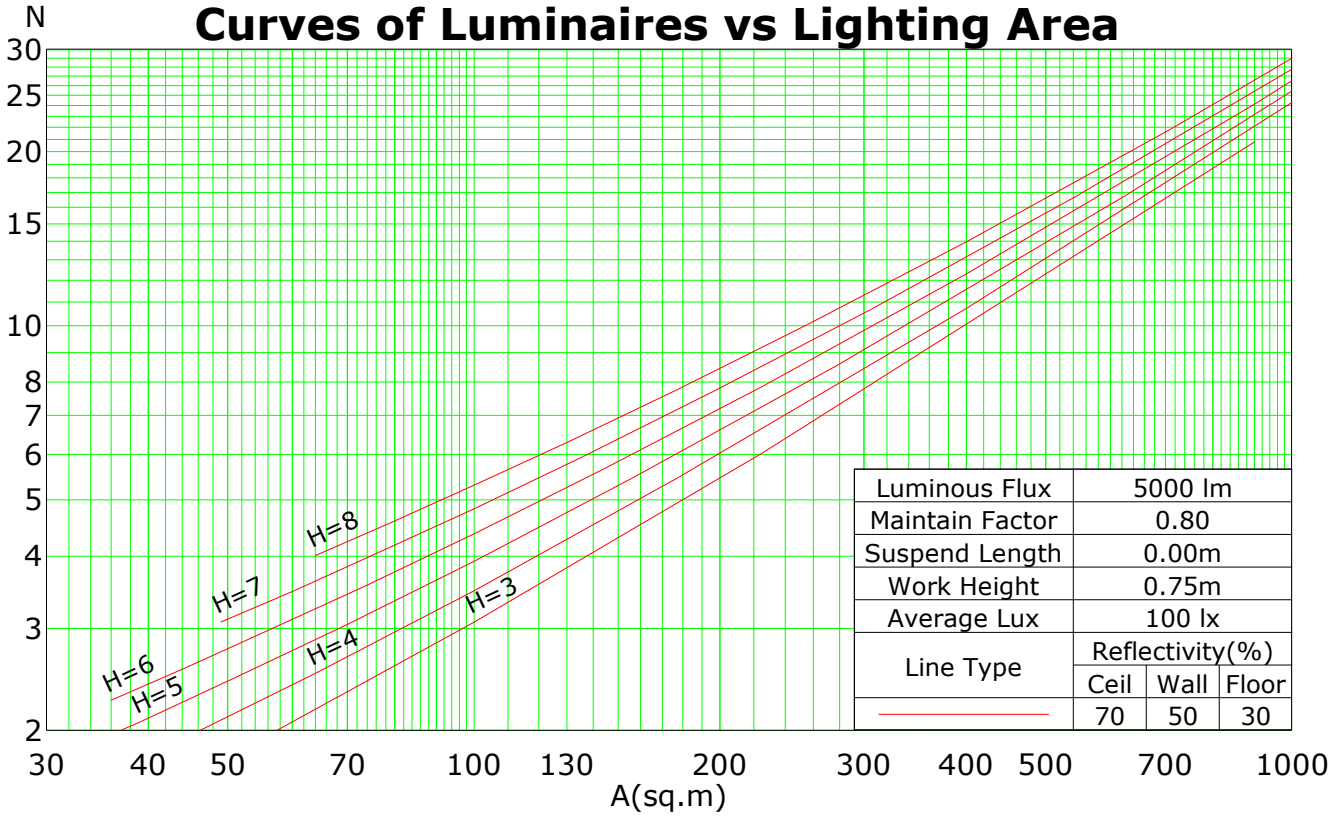
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.705 m [K=1.0000]
Humidity: 65
Inspector:

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	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	0.98
1	1.08	1.04	0.99	0.95	1.05	1.01	0.97	0.94	0.96	0.93	0.90	0.92	0.90	0.87	0.88	0.86	0.84	0.82
2	0.99	0.90	0.84	0.78	0.96	0.88	0.82	0.77	0.84	0.79	0.75	0.81	0.76	0.73	0.77	0.74	0.71	0.68
3	0.90	0.79	0.71	0.65	0.87	0.78	0.70	0.64	0.74	0.68	0.63	0.71	0.66	0.61	0.68	0.64	0.60	0.58
4	0.82	0.70	0.62	0.55	0.80	0.69	0.61	0.54	0.66	0.59	0.53	0.63	0.57	0.52	0.61	0.56	0.51	0.49
5	0.76	0.63	0.54	0.47	0.73	0.62	0.53	0.47	0.59	0.52	0.46	0.57	0.51	0.45	0.55	0.49	0.45	0.43
6	0.70	0.57	0.48	0.41	0.68	0.55	0.47	0.41	0.53	0.46	0.40	0.52	0.45	0.40	0.50	0.44	0.39	0.37
7	0.65	0.51	0.43	0.36	0.63	0.50	0.42	0.36	0.49	0.41	0.36	0.47	0.40	0.35	0.46	0.40	0.35	0.33
8	0.60	0.47	0.38	0.32	0.59	0.46	0.38	0.32	0.45	0.37	0.32	0.43	0.37	0.32	0.42	0.36	0.31	0.29
9	0.56	0.43	0.35	0.29	0.55	0.42	0.34	0.29	0.41	0.34	0.29	0.40	0.33	0.29	0.39	0.33	0.28	0.26
10	0.53	0.40	0.32	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	0.26	0.24

Spacing Criteria (0-180): 1.20
Spacing Criteria (90-270): 1.23
Spacing Criteria (Diagonal): 1.34

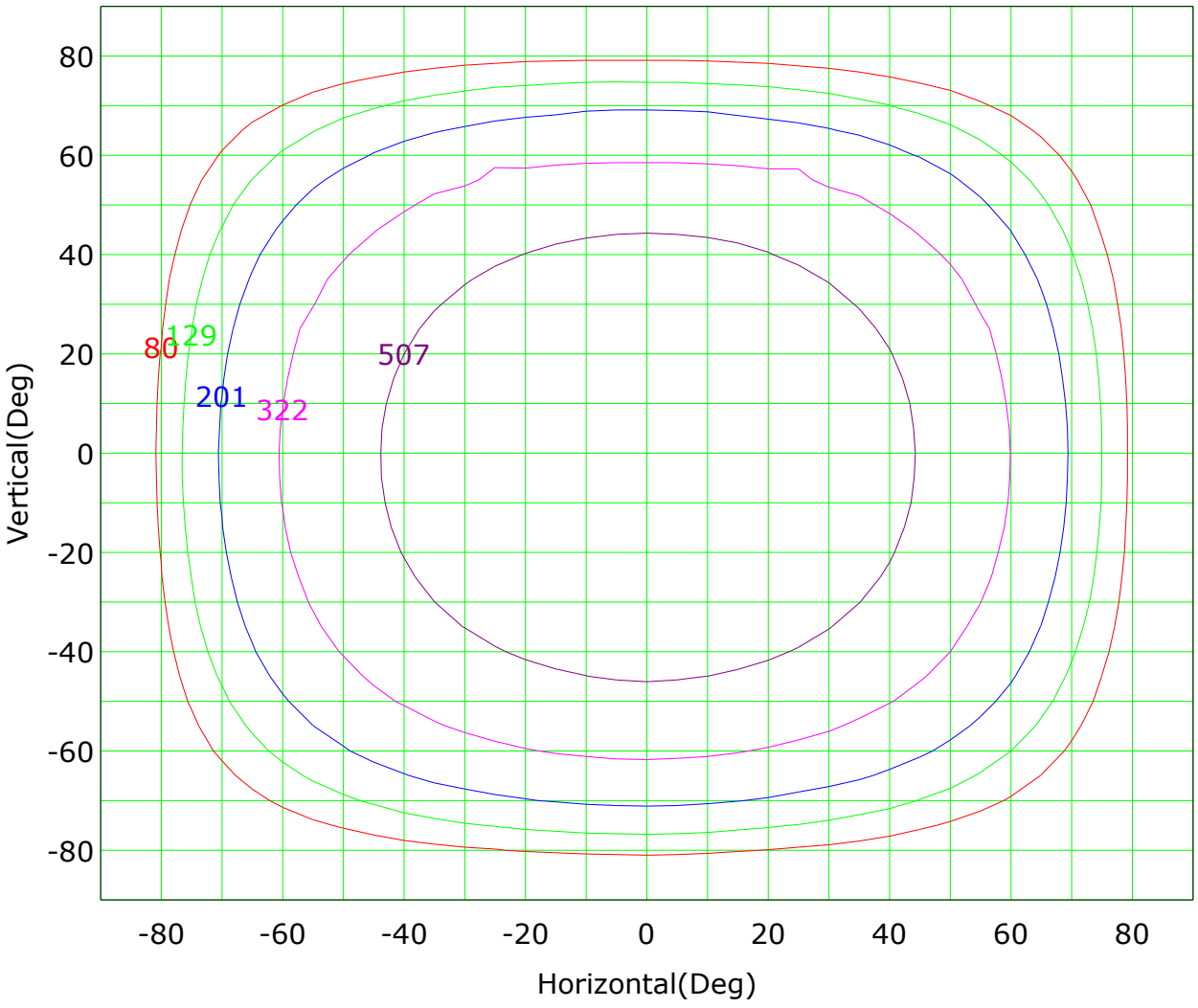
Curves of Luminaires vs Lighting Area



C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.705 m [K=1.0000]
Humidity: 65
Inspector:

Isocandela (rectangle)

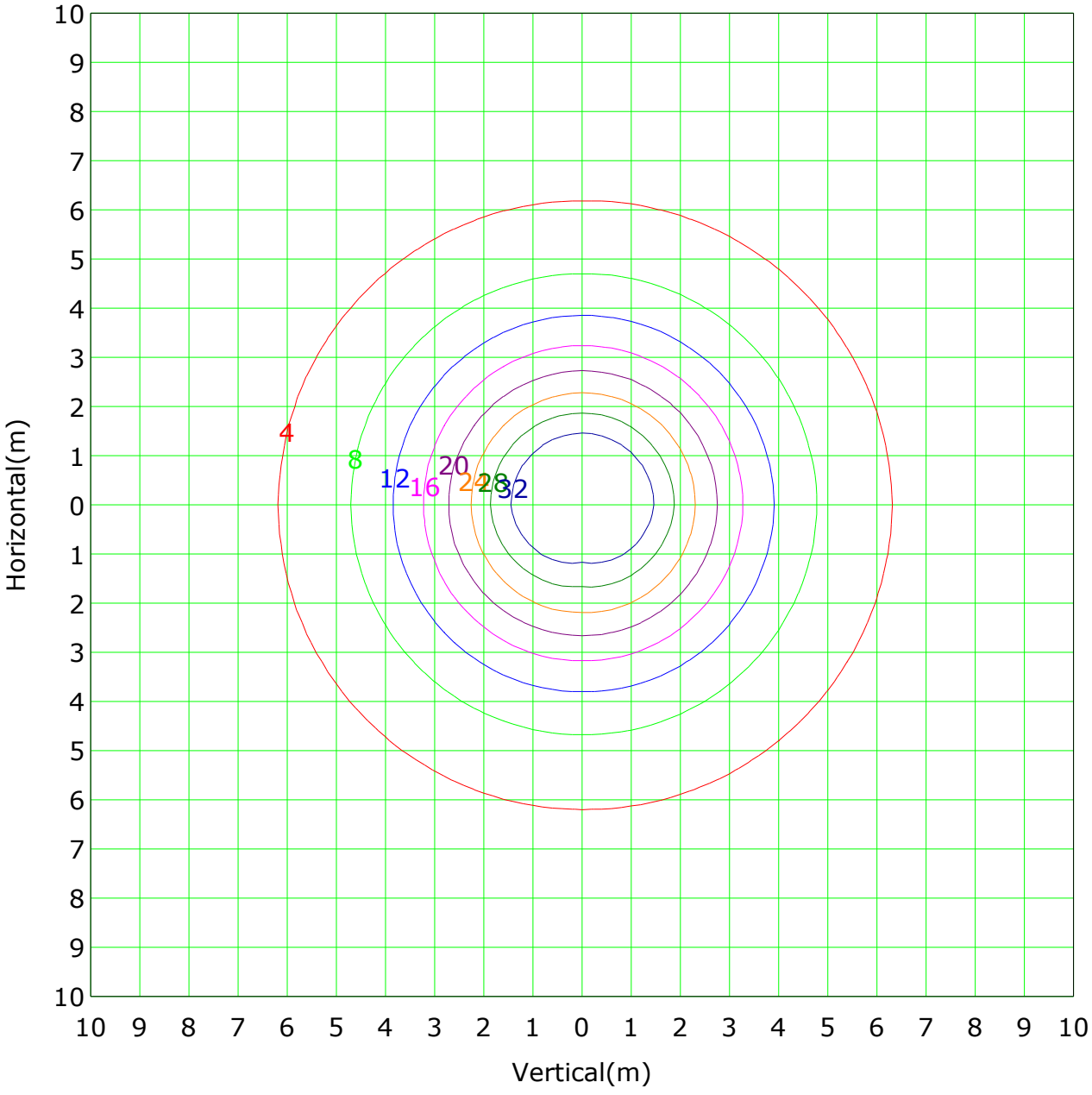


Imax (100%): 805 cd

(10%): 80 cd
(16%): 129 cd
(25%): 201 cd
(40%): 322 cd
(63%): 507 cd
(100%): 805 cd

C Plane (°):0.0-360.0: 90.0
Gamma Plane (°):0.0-180.0:1.0
Test Lab: Inventfine instruments
Test Device: GPM-1800B
Test Type: TYPE C
Distance: 8.705 m [K=1.0000]
Temperature: 26
Humidity: 65
Operator:
Inspector:

IsoLux Plot



Mounting Height: 4.5m Max Lux(100%): 39.7 lx

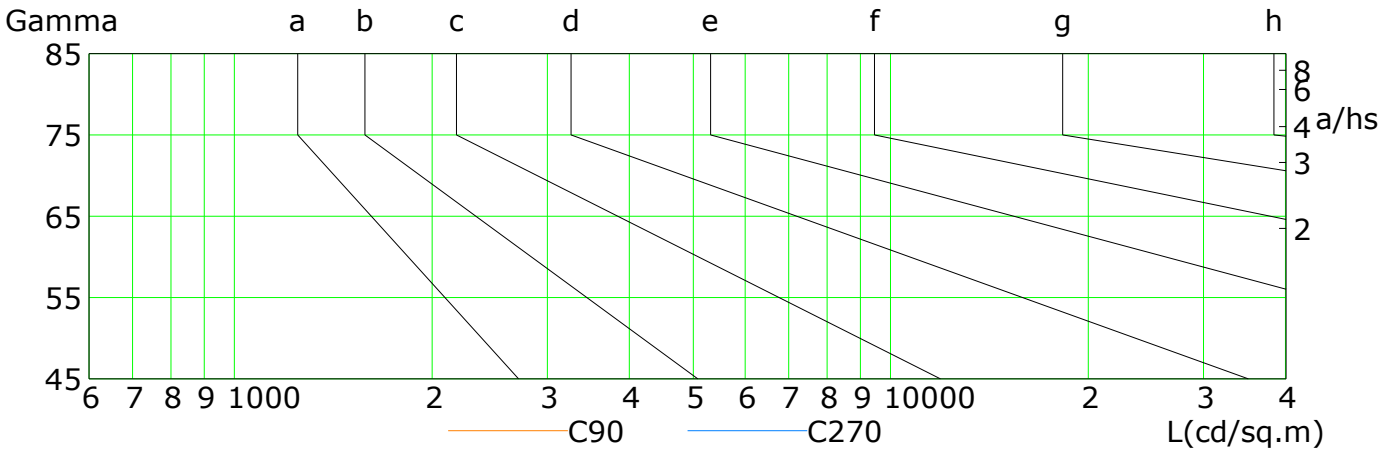
(10%): 4.0 lx	(20%): 7.9 lx
(30%): 11.9 lx	(40%): 15.9 lx
(50%): 19.9 lx	(60%): 23.8 lx
(70%): 27.8 lx	(80%): 31.8 lx

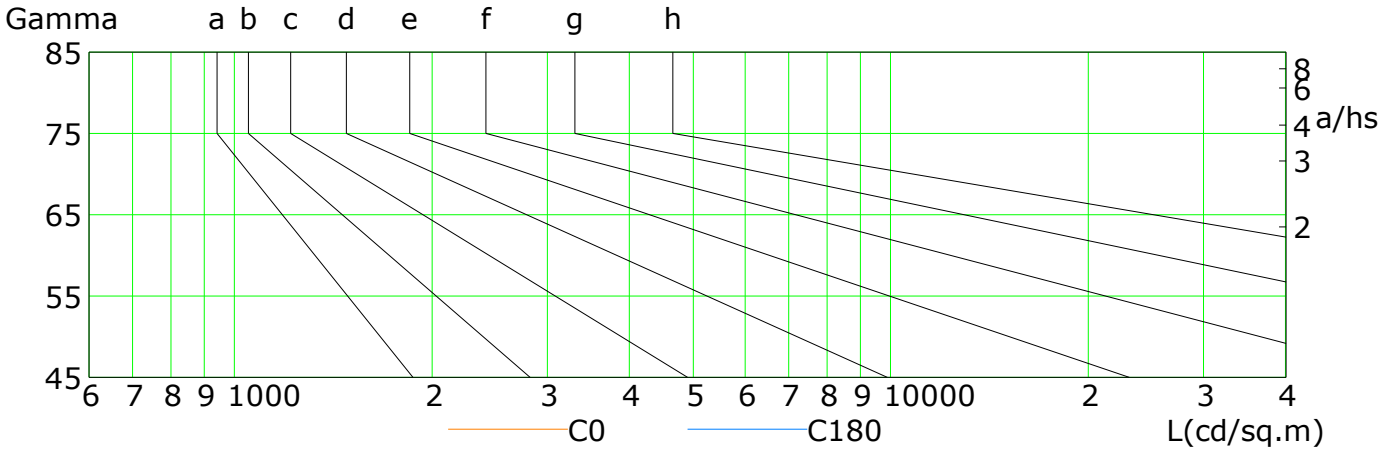
C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.705 m [K=1.0000]
Humidity: 65
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



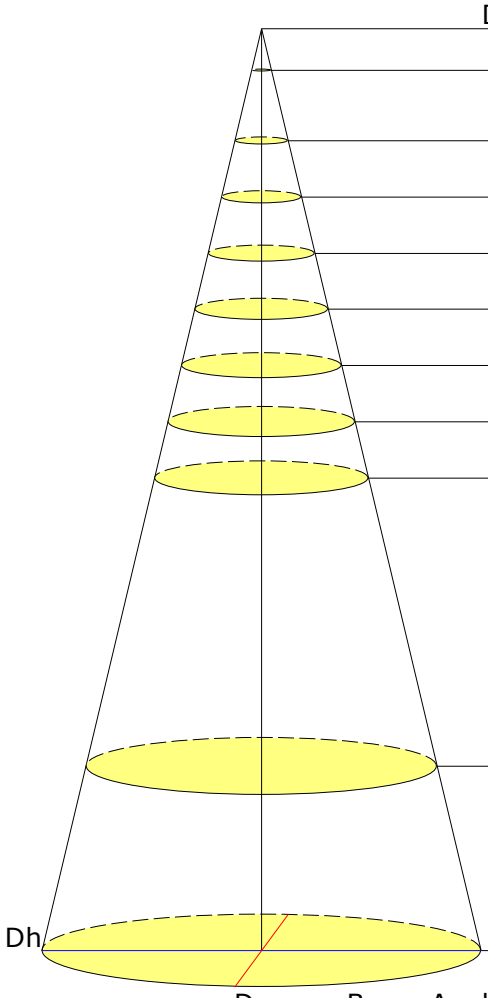


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	495	442	386	328	266	207	147	88	40
C90	520	464	406	345	282	217	151	91	40
C180	499	444	381	321	258	194	129	72	27
C270	500	410	382	296	284	183	125	70	27

C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.705 m [K=1.0000]
Humidity: 65
Inspector:

Illuminance at a Distance



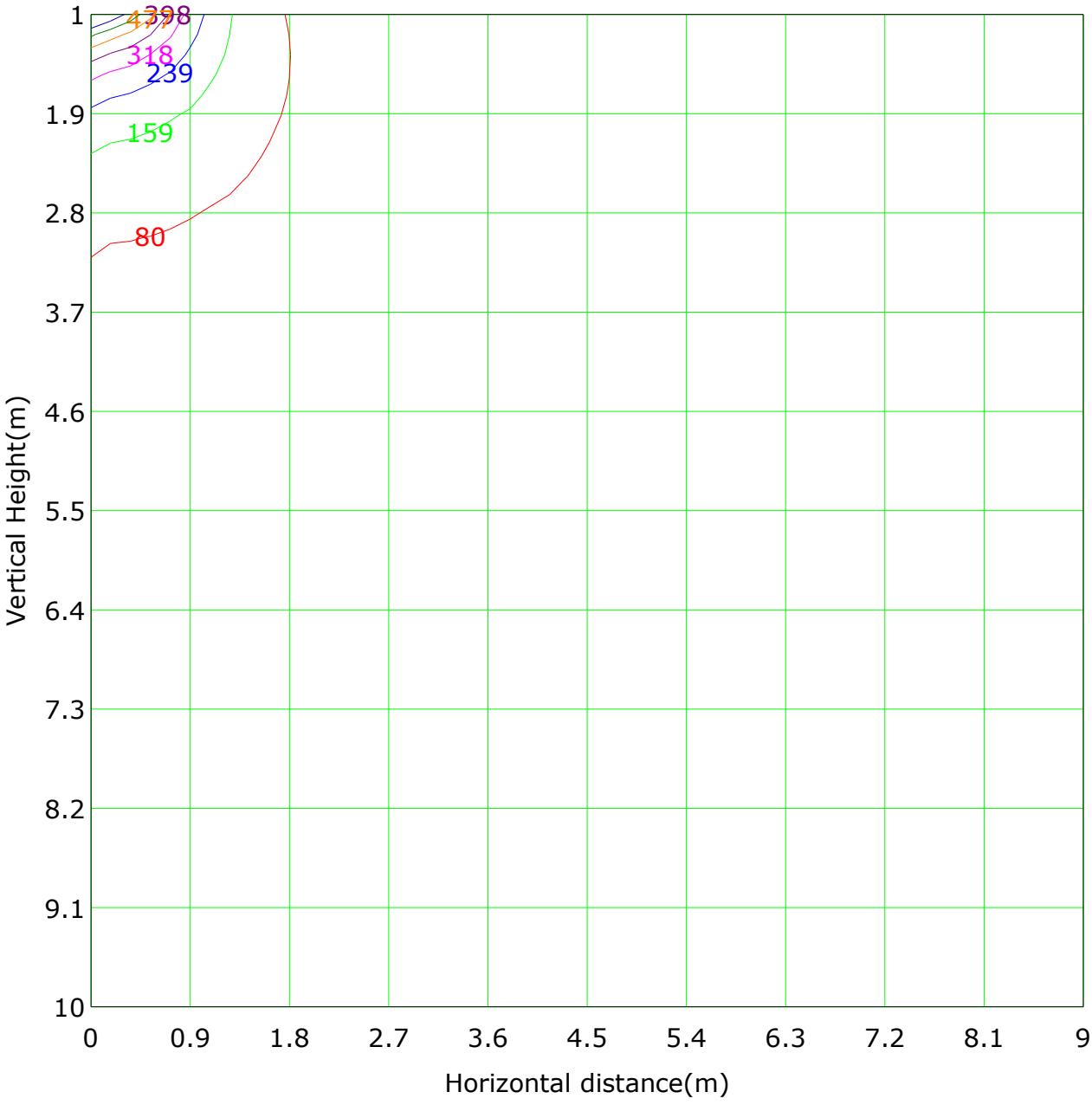
Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
0.5	3805.54	1.23/1.22	1.2	744.34
1.2	535.15	3.29/3.27	8.6	104.67
1.8	237.85	4.93/4.90	19.3	46.52
2.4	133.79	6.58/6.53	34.3	26.17
3.0	85.62	8.22/8.17	53.6	16.75
3.7	59.46	9.87/9.80	77.2	11.63
4.3	43.69	11.51/11.43	105.1	8.54
4.9	33.45	13.16/13.07	137.2	6.54
8.0	12.43	21.59/21.43	369.3	2.43
10.0	7.95	26.98/26.79	577.0	1.56

Beam Angle(B): H106.9 V106.5 Field Angle(F): H160.0 V159.9

C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.705 m [K=1.0000]
Humidity: 65
Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 10.0m Max Lux: 795.5 lx

(10%): 79.5 lx
(20%): 159.1 lx
(30%): 238.6 lx
(40%): 318.2 lx
(50%): 397.7 lx
(60%): 477.3 lx
(70%): 556.8 lx
(80%): 636.4 lx

C Plane (°):0.0-360.0: 90.0
Gamma Plane (°):0.0-180.0:1.0
Test Lab: Inventfine instruments
Test Device: GPM-1800B
Test Type: TYPE C
Distance: 8.705 m [K=1.0000]
Temperature: 26
Humidity: 65
Operator:
Inspector:

Area Flux Table

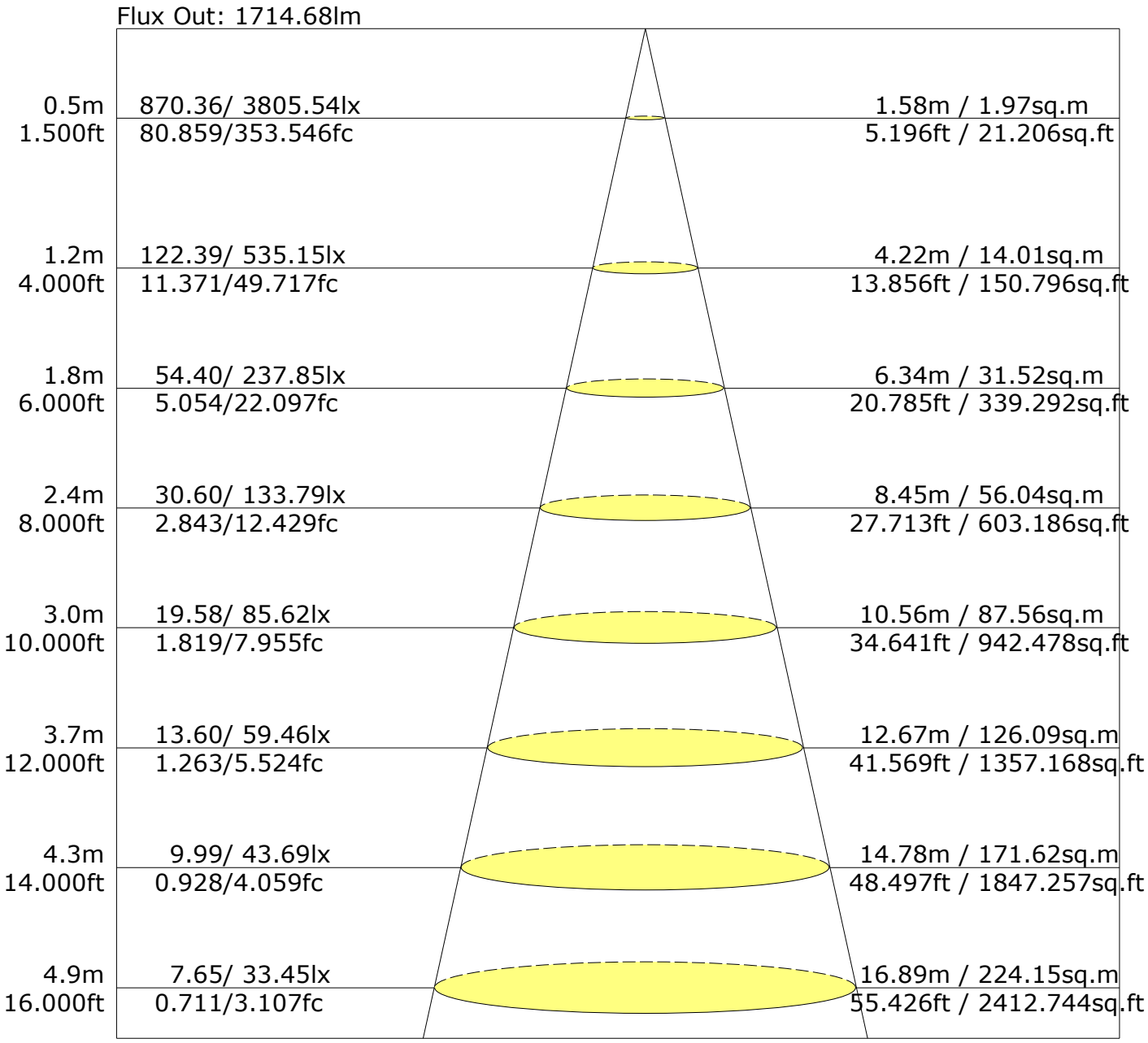
Unit: lm

Vertical plane / Horizontal plane	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
-90	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	1.3	0.0
-80	0.1	0.2	0.2	0.3	0.5	0.6	0.8	0.9	1.0	1.0	1.0	0.9	0.9	0.7	0.6	0.4	0.2	0.1	0.0	11.2	8.2
-70	0.2	0.5	1.0	1.7	2.4	3.0	3.5	3.8	3.8	3.8	3.6	3.2	2.5	1.9	1.2	0.6	0.2	0.0	0.0	35.0	32.5
-60	0.3	1.0	2.0	3.4	4.8	6.2	7.2	7.7	7.7	7.7	7.2	6.3	4.9	3.5	2.2	1.1	0.4	0.1	0.0	70.7	68.4
-50	0.5	1.7	3.2	5.3	7.4	9.2	10.5	11.2	11.2	11.2	10.6	9.2	7.5	5.4	3.3	1.7	0.6	0.1	0.0	114.1	111.7
-40	0.6	2.4	4.3	6.9	9.5	11.9	13.9	15.0	15.0	15.0	13.8	11.9	9.6	7.0	4.4	2.2	0.8	0.1	0.0	160.0	157.7
-30	0.8	3.0	5.2	8.3	11.5	14.6	16.9	18.2	19.0	19.0	18.2	16.7	14.5	11.5	8.3	5.3	2.7	0.9	0.1	202.1	199.8
-20	0.9	3.5	6.4	10.3	14.4	18.2	21.2	22.8	23.9	22.9	21.0	18.4	14.7	10.6	6.7	3.5	1.2	0.1	0.1	234.8	232.6
-10	1.0	3.8	7.7	11.2	15.0	19.0	22.2	24.0	24.0	23.0	21.0	18.4	14.7	10.6	6.7	3.5	1.2	0.1	0.1	252.8	250.6
0	1.0	3.8	7.7	11.2	15.0	19.0	22.2	23.9	22.9	21.0	18.4	14.7	10.6	6.7	3.5	1.2	0.1	0.1	0.1	250.1	247.9
10	0.9	3.6	7.2	10.6	14.7	18.4	21.0	22.5	20.6	17.8	14.2	10.2	6.5	3.3	1.1	0.1	0.1	0.1	0.1	231.0	228.8
20	0.9	3.2	6.3	9.2	11.9	14.5	16.8	17.8	16.5	13.1	9.4	6.0	3.1	1.1	0.1	0.1	0.1	0.1	0.1	200.3	198.0
30	0.7	2.5	4.9	7.5	9.6	11.5	13.1	14.2	13.1	9.6	7.0	4.4	2.2	0.8	0.1	0.1	0.1	0.1	0.1	159.6	157.4
40	0.6	1.9	3.5	5.4	7.0	8.3	9.4	10.2	9.4	7.0	4.9	3.1	1.7	0.6	0.2	0.1	0.0	0.0	0.0	115.2	113.0
50	0.4	1.2	2.2	3.3	4.4	5.3	6.0	6.5	6.7	6.7	6.5	5.4	3.3	1.7	0.7	0.2	0.1	0.0	0.0	72.9	70.6
60	0.2	0.6	1.1	2.2	2.7	3.1	3.1	3.3	3.5	3.5	3.3	2.8	2.3	1.2	0.5	0.2	0.1	0.0	0.0	37.3	35.0
70	0.1	0.2	0.6	0.9	1.1	1.1	1.1	1.2	1.2	1.2	1.1	0.9	0.8	0.4	0.2	0.1	0.0	0.0	0.0	12.9	10.4
80	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	1.7	0.1
90	9.1	33.2	66.0	98.4	128.9	156.6	178.4	193.7	200.7	201.0	195.2	180.8	160.1	134.3	104.4	71.6	38.4	11.1	0.0	2163	
Flux(T)	0.0	25.8	64.3	97.5	128.4	156.2	178.1	193.7	200.7	201.2	194.9	180.5	159.7	133.8	103.6	70.0	33.4	0.7			
Flux(E)	2123																				

C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.705 m [K=1.0000]
Humidity: 65
Inspector:

The Average Illuminance Effective Figure



C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.705 m [K=1.0000]
Humidity: 65
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	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
3H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
4H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
6H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
8H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
12H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
X=4H Y=2H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
3H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
4H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
6H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
8H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
12H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
X=8H Y=4H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
6H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
8H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
12H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
X=12H Y=4H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
6H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
8H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
Variations with the observer position at spacings:										
S=1.0H	-1.$/-1.$					-1.$/-1.$				
S=1.5H	-1.$/-1.$					-1.$/-1.$				
S=2.0H	-1.$/-1.$					-1.$/-1.$				

Calculate in accordance with CIE Pub.117. The table is revised with 2209lm (8log(F/F0) = 2.8).

C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.705 m [K=1.0000]
Humidity: 65
Inspector:

Zonal Lumen

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	789.1	0.8	0.8	0.03	0.03
1.0-2.0	782.6	2.2	3.0	0.10	0.14
2.0-3.0	782.2	3.7	6.7	0.17	0.31
3.0-4.0	781.2	5.2	12.0	0.24	0.54
4.0-5.0	778.9	6.7	18.7	0.30	0.85
5.0-6.0	776.9	8.2	26.8	0.37	1.21
6.0-7.0	776.0	9.6	36.5	0.44	1.65
7.0-8.0	775.5	11.1	47.6	0.50	2.15
8.0-9.0	773.6	12.5	60.1	0.57	2.72
9.0-10.0	770.9	14.0	74.1	0.63	3.35
10.0-11.0	768.2	15.4	89.4	0.69	4.05
11.0-12.0	763.9	16.7	106.1	0.76	4.80
12.0-13.0	759.8	18.0	124.2	0.82	5.62
13.0-14.0	756.4	19.4	143.5	0.88	6.50
14.0-15.0	752.3	20.7	164.2	0.93	7.43
15.0-16.0	747.4	21.9	186.1	0.99	8.42
16.0-17.0	742.3	23.1	209.2	1.05	9.47
17.0-18.0	736.9	24.3	233.5	1.10	10.57
18.0-19.0	730.3	25.4	258.9	1.15	11.72
19.0-20.0	723.5	26.5	285.4	1.20	12.92
20.0-21.0	717.1	27.5	312.9	1.25	14.16
21.0-22.0	710.8	28.6	341.5	1.29	15.46
22.0-23.0	705.0	29.6	371.1	1.34	16.80
23.0-24.0	699.8	30.6	401.7	1.39	18.18
24.0-25.0	693.7	31.5	433.2	1.43	19.61
25.0-26.0	685.5	32.4	465.6	1.46	21.07
26.0-27.0	677.5	33.2	498.7	1.50	22.57
27.0-28.0	669.9	33.9	532.7	1.54	24.11
28.0-29.0	661.3	34.6	567.3	1.57	25.68
29.0-30.0	652.8	35.3	602.5	1.60	27.27
30.0-31.0	644.9	35.9	638.4	1.62	28.90
31.0-32.0	636.8	36.5	674.9	1.65	30.55
32.0-33.0	628.2	37.0	711.9	1.68	32.22
33.0-34.0	619.1	37.5	749.4	1.70	33.92
34.0-35.0	610.1	37.9	787.3	1.72	35.63
35.0-36.0	600.9	38.3	825.5	1.73	37.37

C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.705 m [K=1.0000]
Humidity: 65
Inspector:

Zonal Lumen (Continue 1)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	591.5	38.6	864.1	1.75	39.11
37.0-38.0	581.7	38.8	903.0	1.76	40.87
38.0-39.0	571.6	39.0	942.0	1.77	42.64
39.0-40.0	561.3	39.2	981.1	1.77	44.41
40.0-41.0	551.0	39.2	1020.4	1.78	46.18
41.0-42.0	540.9	39.3	1059.7	1.78	47.96
42.0-43.0	530.4	39.3	1099.0	1.78	49.74
43.0-44.0	519.7	39.2	1138.2	1.78	51.52
44.0-45.0	508.8	39.1	1177.3	1.77	53.29
45.0-46.0	497.7	38.9	1216.2	1.76	55.05
46.0-47.0	486.6	38.7	1254.9	1.75	56.80
47.0-48.0	475.6	38.4	1293.4	1.74	58.54
48.0-49.0	464.3	38.1	1331.5	1.73	60.27
49.0-50.0	449.3	37.5	1369.0	1.70	61.96
50.0-51.0	434.2	36.7	1405.7	1.66	63.63
51.0-52.0	422.6	36.3	1442.0	1.64	65.27
52.0-53.0	413.5	36.0	1478.0	1.63	66.90
53.0-54.0	405.6	35.8	1513.7	1.62	68.51
54.0-55.0	394.9	35.3	1549.0	1.60	70.11
55.0-56.0	383.1	34.6	1583.6	1.57	71.68
56.0-57.0	371.9	34.0	1617.6	1.54	73.22
57.0-58.0	359.8	33.3	1650.9	1.51	74.72
58.0-59.0	347.1	32.5	1683.3	1.47	76.19
59.0-60.0	331.7	31.3	1714.7	1.42	77.61
60.0-61.0	316.6	30.2	1744.9	1.37	78.98
61.0-62.0	304.5	29.3	1774.2	1.33	80.31
62.0-63.0	298.5	29.0	1803.3	1.31	81.62
63.0-64.0	291.3	28.6	1831.9	1.29	82.91
64.0-65.0	278.2	27.5	1859.4	1.25	84.16
65.0-66.0	261.2	26.1	1885.5	1.18	85.34
66.0-67.0	243.9	24.5	1910.0	1.11	86.45
67.0-68.0	230.4	23.3	1933.3	1.06	87.51
68.0-69.0	217.7	22.2	1955.6	1.01	88.51
69.0-70.0	206.1	21.2	1976.7	0.96	89.47
70.0-71.0	193.7	20.0	1996.8	0.91	90.38
71.0-72.0	180.9	18.8	2015.6	0.85	91.23

C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.705 m [K=1.0000]
Humidity: 65
Inspector:

Zonal Lumen (Continue 2)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	168.3	17.6	2033.2	0.80	92.03
73.0-74.0	155.9	16.4	2049.6	0.74	92.77
74.0-75.0	143.8	15.2	2064.8	0.69	93.46
75.0-76.0	131.6	14.0	2078.7	0.63	94.09
76.0-77.0	119.7	12.8	2091.5	0.58	94.67
77.0-78.0	108.3	11.6	2103.1	0.52	95.19
78.0-79.0	96.6	10.4	2113.5	0.47	95.66
79.0-80.0	85.6	9.2	2122.7	0.42	96.08
80.0-81.0	75.2	8.1	2130.8	0.37	96.45
81.0-82.0	65.0	7.0	2137.9	0.32	96.77
82.0-83.0	55.4	6.0	2143.9	0.27	97.04
83.0-84.0	46.4	5.1	2149.0	0.23	97.27
84.0-85.0	37.7	4.1	2153.1	0.19	97.45
85.0-86.0	29.2	3.2	2156.3	0.14	97.60
86.0-87.0	22.1	2.4	2158.7	0.11	97.71
87.0-88.0	17.2	1.9	2160.6	0.09	97.79
88.0-89.0	13.0	1.4	2162.0	0.06	97.86
89.0-90.0	9.8	1.1	2163.1	0.05	97.91
90.0-91.0	8.4	0.9	2164.0	0.04	97.95
91.0-92.0	7.9	0.9	2164.9	0.04	97.99
92.0-93.0	7.6	0.8	2165.7	0.04	98.02
93.0-94.0	7.0	0.8	2166.5	0.03	98.06
94.0-95.0	6.4	0.7	2167.2	0.03	98.09
95.0-96.0	6.0	0.7	2167.8	0.03	98.12
96.0-97.0	5.9	0.6	2168.4	0.03	98.15
97.0-98.0	6.0	0.6	2169.1	0.03	98.18
98.0-99.0	6.0	0.7	2169.8	0.03	98.21
99.0-100.0	6.0	0.6	2170.4	0.03	98.24
100.0-101.0	6.0	0.6	2171.0	0.03	98.27
101.0-102.0	6.0	0.6	2171.7	0.03	98.30
102.0-103.0	6.1	0.7	2172.4	0.03	98.33
103.0-104.0	6.2	0.7	2173.0	0.03	98.36
104.0-105.0	6.4	0.7	2173.7	0.03	98.39
105.0-106.0	6.5	0.7	2174.4	0.03	98.42
106.0-107.0	6.6	0.7	2175.1	0.03	98.45
107.0-108.0	6.8	0.7	2175.8	0.03	98.48

C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.705 m [K=1.0000]
Humidity: 65
Inspector:

Zonal Lumen (Continue 3)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	6.9	0.7	2176.5	0.03	98.51
109.0-110.0	7.0	0.7	2177.2	0.03	98.55
110.0-111.0	7.1	0.7	2178.0	0.03	98.58
111.0-112.0	7.1	0.7	2178.7	0.03	98.61
112.0-113.0	7.2	0.7	2179.4	0.03	98.65
113.0-114.0	7.2	0.7	2180.1	0.03	98.68
114.0-115.0	7.3	0.7	2180.9	0.03	98.71
115.0-116.0	7.3	0.7	2181.6	0.03	98.74
116.0-117.0	7.4	0.7	2182.3	0.03	98.78
117.0-118.0	7.5	0.7	2183.0	0.03	98.81
118.0-119.0	7.6	0.7	2183.8	0.03	98.84
119.0-120.0	7.6	0.7	2184.5	0.03	98.88
120.0-121.0	7.7	0.7	2185.2	0.03	98.91
121.0-122.0	7.6	0.7	2185.9	0.03	98.94
122.0-123.0	7.4	0.7	2186.6	0.03	98.97
123.0-124.0	7.2	0.7	2187.3	0.03	99.00
124.0-125.0	7.1	0.6	2187.9	0.03	99.03
125.0-126.0	7.2	0.6	2188.6	0.03	99.06
126.0-127.0	7.3	0.6	2189.2	0.03	99.09
127.0-128.0	7.4	0.6	2189.9	0.03	99.12
128.0-129.0	7.5	0.6	2190.5	0.03	99.15
129.0-130.0	7.8	0.7	2191.2	0.03	99.18
130.0-131.0	7.9	0.7	2191.8	0.03	99.21
131.0-132.0	8.0	0.7	2192.5	0.03	99.24
132.0-133.0	8.0	0.6	2193.1	0.03	99.27
133.0-134.0	7.9	0.6	2193.8	0.03	99.29
134.0-135.0	7.9	0.6	2194.4	0.03	99.32
135.0-136.0	7.9	0.6	2195.0	0.03	99.35
136.0-137.0	7.9	0.6	2195.6	0.03	99.38
137.0-138.0	7.9	0.6	2196.2	0.03	99.40
138.0-139.0	7.9	0.6	2196.7	0.03	99.43
139.0-140.0	8.0	0.6	2197.3	0.03	99.45
140.0-141.0	8.2	0.6	2197.9	0.03	99.48
141.0-142.0	8.2	0.6	2198.4	0.03	99.51
142.0-143.0	8.2	0.5	2199.0	0.02	99.53
143.0-144.0	8.0	0.5	2199.5	0.02	99.55

C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.705 m [K=1.0000]
Humidity: 65
Inspector:

Zonal Lumen (Continue 4)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	7.9	0.5	2200.0	0.02	99.58
145.0-146.0	7.9	0.5	2200.5	0.02	99.60
146.0-147.0	8.0	0.5	2201.0	0.02	99.62
147.0-148.0	8.2	0.5	2201.5	0.02	99.64
148.0-149.0	8.2	0.5	2201.9	0.02	99.66
149.0-150.0	8.1	0.5	2202.4	0.02	99.69
150.0-151.0	8.0	0.4	2202.8	0.02	99.70
151.0-152.0	8.0	0.4	2203.2	0.02	99.72
152.0-153.0	8.2	0.4	2203.7	0.02	99.74
153.0-154.0	8.4	0.4	2204.1	0.02	99.76
154.0-155.0	8.4	0.4	2204.5	0.02	99.78
155.0-156.0	8.4	0.4	2204.8	0.02	99.80
156.0-157.0	8.3	0.4	2205.2	0.02	99.81
157.0-158.0	8.2	0.3	2205.6	0.02	99.83
158.0-159.0	8.3	0.3	2205.9	0.02	99.84
159.0-160.0	8.3	0.3	2206.2	0.01	99.86
160.0-161.0	8.3	0.3	2206.5	0.01	99.87
161.0-162.0	8.4	0.3	2206.8	0.01	99.88
162.0-163.0	8.4	0.3	2207.1	0.01	99.90
163.0-164.0	8.4	0.3	2207.3	0.01	99.91
164.0-165.0	8.2	0.2	2207.6	0.01	99.92
165.0-166.0	8.2	0.2	2207.8	0.01	99.93
166.0-167.0	8.4	0.2	2208.0	0.01	99.94
167.0-168.0	8.4	0.2	2208.2	0.01	99.95
168.0-169.0	8.2	0.2	2208.4	0.01	99.96
169.0-170.0	8.1	0.2	2208.6	0.01	99.96
170.0-171.0	8.1	0.1	2208.7	0.01	99.97
171.0-172.0	8.1	0.1	2208.8	0.01	99.98
172.0-173.0	8.2	0.1	2209.0	0.01	99.98
173.0-174.0	8.3	0.1	2209.1	0.00	99.99
174.0-175.0	8.3	0.1	2209.1	0.00	99.99
175.0-176.0	8.3	0.1	2209.2	0.00	99.99
176.0-177.0	8.2	0.1	2209.3	0.00	100.00
177.0-178.0	8.2	0.0	2209.3	0.00	100.00
178.0-179.0	8.3	0.0	2209.3	0.00	100.00
179.0-180.0	8.5	0.0	2209.3	0.00	100.00

C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.705 m [K=1.0000]
Humidity: 65
Inspector:

Zonal Lumen (Continue 5)

cone flux(90°): 1177.31 lm

%lum = 53.3%
%lamp = 53.3%

cone flux(120°): 1714.68 lm

%lum = 77.6%
%lamp = 77.6%

Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	795.5	795.5	795.5	795.5	795.5					
G5.0	734.7	786.9	800.2	787.1	734.7					
G10.0	726.0	785.2	786.5	782.5	726.0					
G15.0	709.3	766.4	763.7	760.6	709.3					
G20.0	685.6	732.7	733.0	730.1	685.6					
G25.0	671.0	701.7	694.7	692.7	671.0					
G30.0	636.6	662.7	652.1	644.1	636.6					
G35.0	591.3	618.8	606.8	605.0	591.3					
G40.0	544.2	571.8	555.4	552.7	544.2					
G45.0	494.8	520.1	498.6	499.6	494.8					
G50.0	442.4	464.0	443.8	410.2	442.4					
G55.0	385.7	405.7	380.9	382.2	385.7					
G60.0	328.4	345.2	320.9	296.4	328.4					
G65.0	265.6	282.0	257.8	284.2	265.6					
G70.0	207.4	216.6	193.5	182.5	207.4					
G75.0	146.6	151.4	129.1	124.7	146.6					
G80.0	88.4	90.6	72.5	70.1	88.4					
G85.0	39.9	40.2	26.8	26.9	39.9					
G90.0	11.2	9.6	7.2	7.3	11.2					
G95.0	6.7	6.8	5.5	5.1	6.7					
G100.0	6.3	6.1	6.0	5.6	6.3					
G105.0	6.7	6.7	6.4	6.0	6.7					
G110.0	7.2	7.1	7.3	6.5	7.2					
G115.0	7.6	7.4	7.5	6.8	7.6					
G120.0	7.8	7.9	7.6	7.0	7.8					
G125.0	7.4	7.3	7.5	6.7	7.4					
G130.0	8.0	8.1	8.1	7.3	8.0					
G135.0	8.5	7.4	8.2	7.5	8.5					
G140.0	8.4	8.6	8.2	7.6	8.4					
G145.0	8.5	7.3	8.1	7.7	8.5					
G150.0	8.6	7.5	8.3	7.7	8.6					
G155.0	8.6	8.8	8.3	7.8	8.6					
G160.0	8.7	7.7	8.9	7.9	8.7					
G165.0	8.9	7.7	7.8	7.9	8.9					
G170.0	9.0	7.8	7.8	7.9	9.0					
G175.0	9.0	8.9	7.6	7.7	9.0					
G180.0	8.9	9.0	7.8	9.0	8.9					

C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.705 m [K=1.0000]
Humidity: 65
Inspector:

LED Average Luminance Report

Avg.L	cd/m^2
L 0-180(65) av	1.#J
L 0-180(75) av	1.#J
L 0-180(85) av	1.#J
L 90-270(65) av	1.#J
L 90-270(75) av	1.#J
L 90-270(85) av	1.#J
L 45(65) av	1.#J
L 45(75) av	1.#J
L 45(85) av	1.#J

Standard: GB/T 29293-2012

C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 8.705 m [K=1.0000]
Humidity: 65
Inspector: