

Report No.: TH-5710A

Test Time: 2025/9/28 14:58

Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Lamp Catalog:

Number of Lamps:

Luminous Length (mm):

Luminous Height (mm):

Current: 0.136 A

Power Factor: 0.971

Luminaire Description: WALLI 105 30W

Lamp Description:

Lumens per Lamp:

Luminous Width (mm):

Voltage: 220.5 V

Power: 29.06 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1707.2 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H36.4

Vertical Diffuse Angle(50%): V42.4

Luminaire Efficacy Rating (LER): 58.80

Max. Intensity: 3002.72 cd

S/MH(C0/C180): 0.62

Total Rated Lamp Lumens: 1707.2 lm

Efficiency: 100%

Upward Ratio: 0%

C0r0 Intensity: 500.38 cd

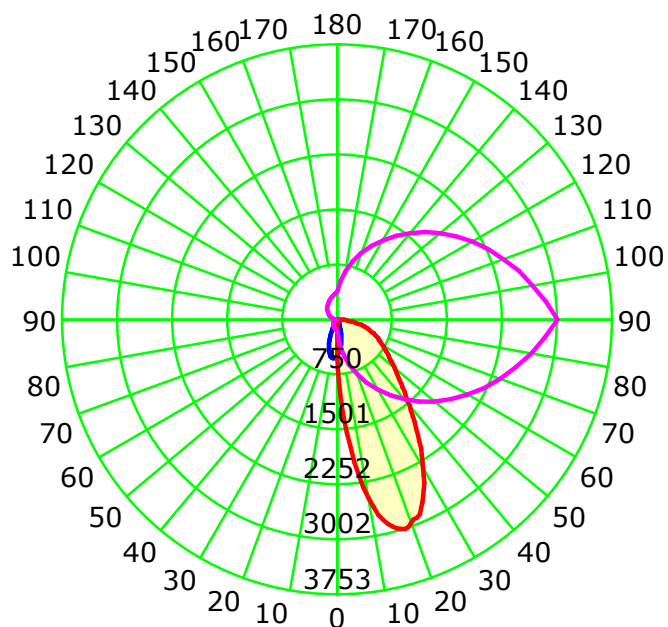
Pos of Max. Intensity: H90 V18

S/MH(C90/C270): 1.90

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 40.4°

— C0-C180 — C90-C270 — G18

C Plane (°):0.0-360.0: 90.0

Test Lab: Inventfine instruments

Test Type: TYPE C

Temperature: 26

Operator:

Gamma Plane (°):0.0-90.0:1.0

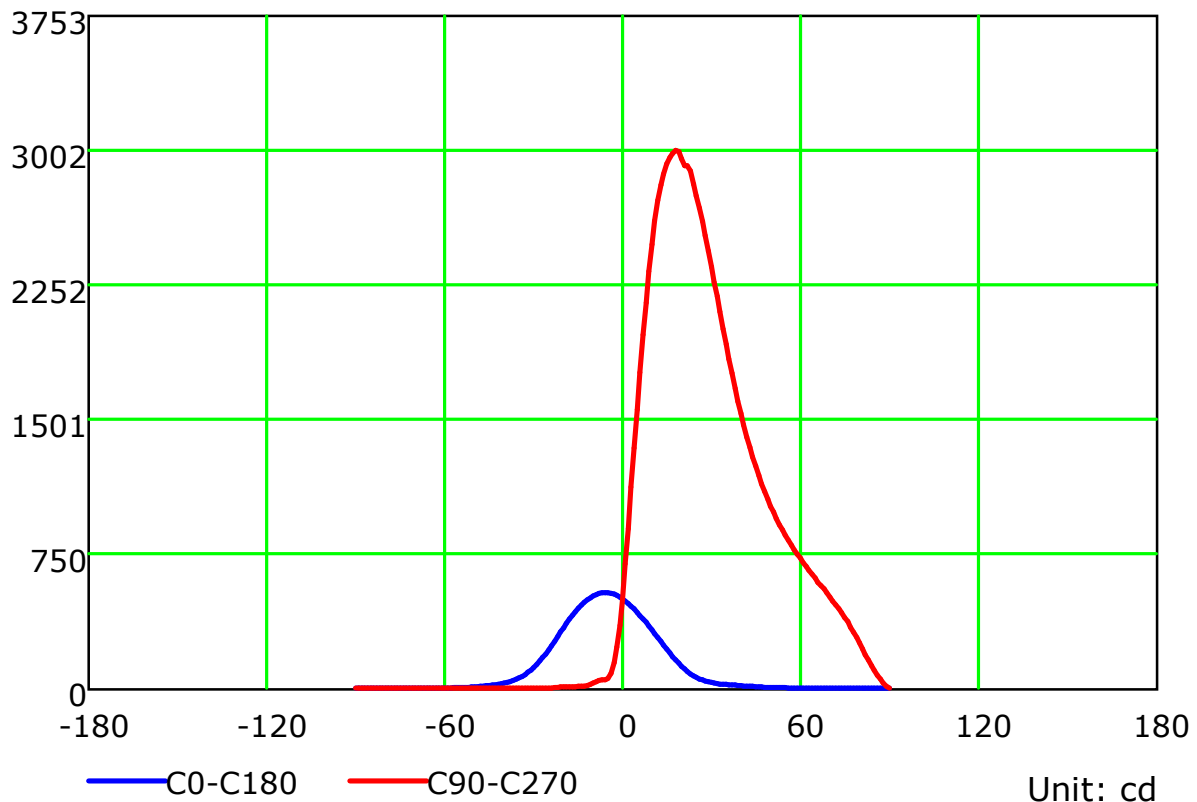
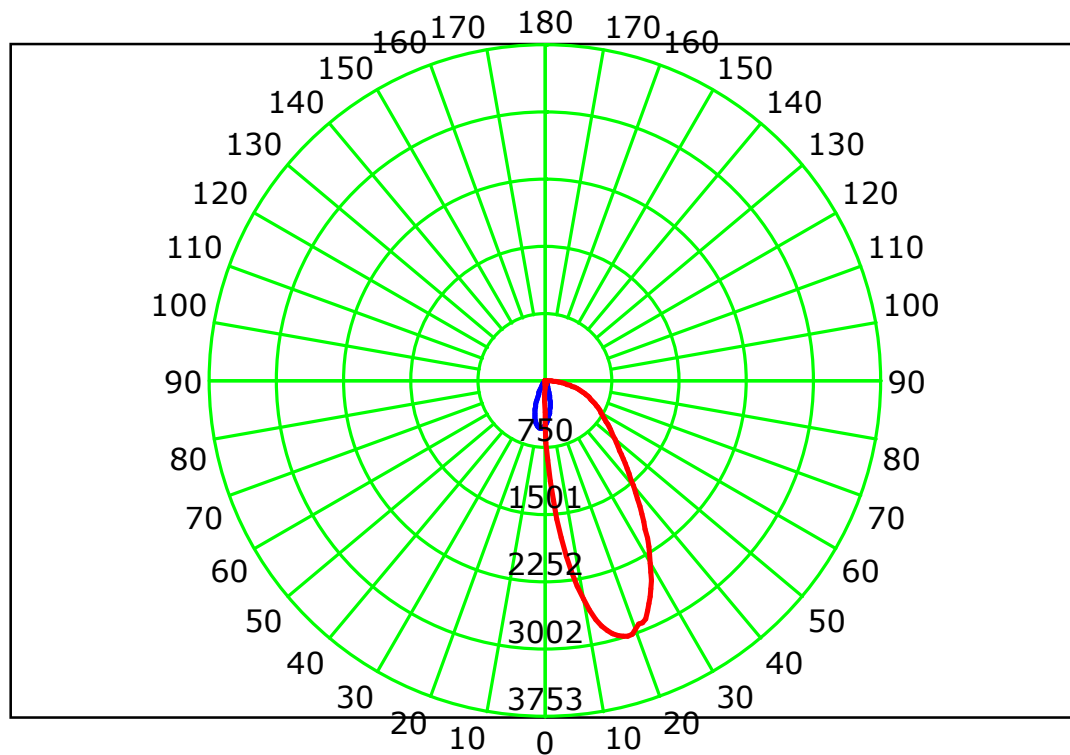
Test Device: GPM-1800B

Distance: 8.705 m [K=1.0000]

Humidity: 65

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 (°):0.0-90.0:1.0
 Test Device: GPM-1800B
 Distance: 8.705 m [K=1.0000]
 Humidity: 65
 Inspector:

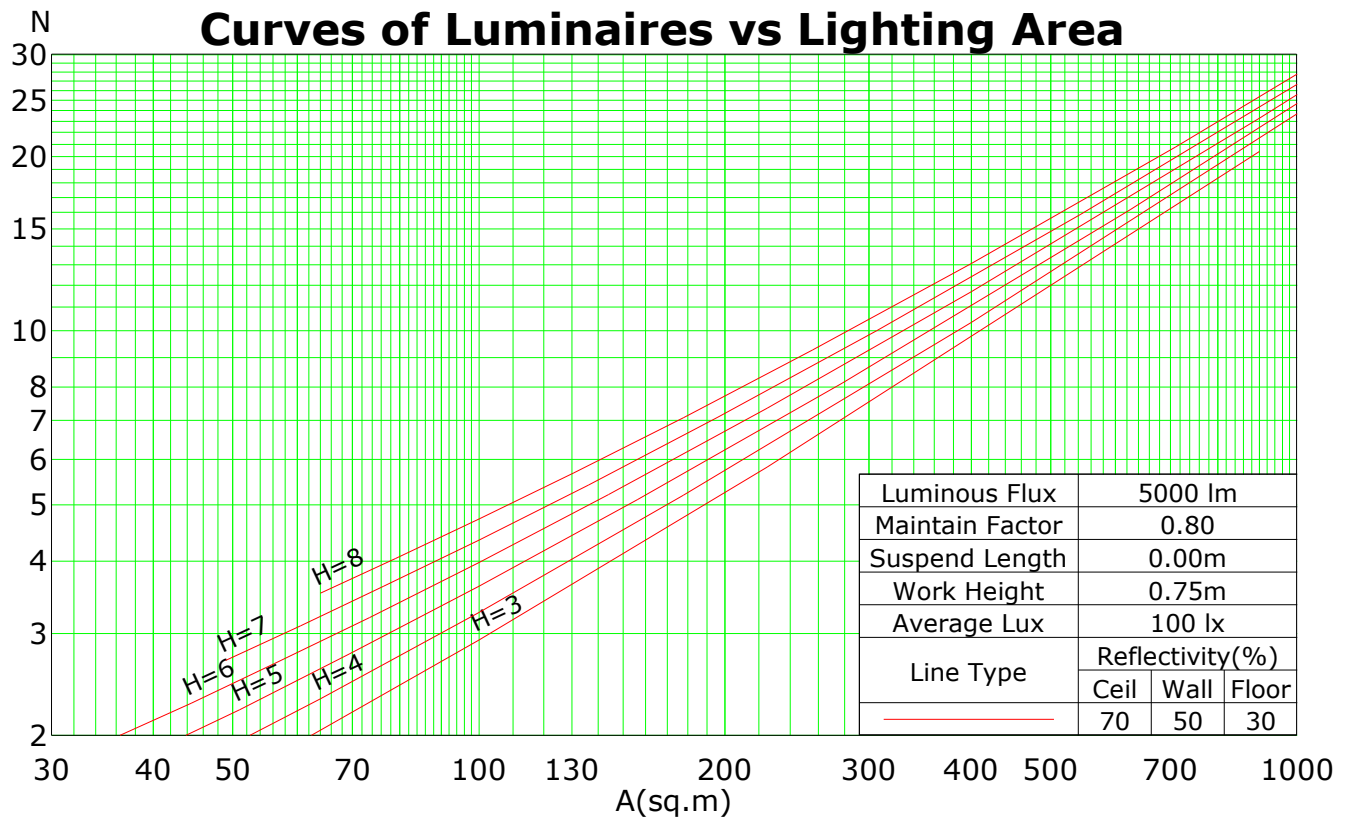
Coefficients Of Utilization - Zonal Cavity Method

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	1.11	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	1.01	0.93	0.87	0.82	0.98	0.91	0.86	0.81	0.88	0.83	0.79	0.85	0.81	0.77	0.82	0.78	0.75	0.73
3	0.93	0.83	0.76	0.70	0.90	0.82	0.75	0.69	0.79	0.73	0.68	0.76	0.71	0.67	0.74	0.69	0.66	0.64
4	0.86	0.75	0.67	0.61	0.84	0.74	0.66	0.60	0.71	0.65	0.59	0.69	0.63	0.59	0.67	0.62	0.58	0.56
5	0.80	0.68	0.60	0.53	0.78	0.67	0.59	0.53	0.65	0.58	0.53	0.63	0.57	0.52	0.61	0.56	0.52	0.50
6	0.74	0.62	0.54	0.48	0.72	0.61	0.53	0.47	0.59	0.52	0.47	0.58	0.51	0.47	0.56	0.51	0.46	0.44
7	0.69	0.57	0.49	0.43	0.68	0.56	0.48	0.43	0.54	0.48	0.42	0.53	0.47	0.42	0.52	0.46	0.42	0.40
8	0.65	0.52	0.44	0.39	0.63	0.52	0.44	0.39	0.50	0.43	0.39	0.49	0.43	0.38	0.48	0.42	0.38	0.36
9	0.61	0.48	0.41	0.36	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	0.38	0.33	0.56	0.44	0.37	0.33	0.44	0.37	0.32	0.43	0.37	0.32	0.42	0.36	0.32	0.31

Spacing Criteria (0-180): 0.62

Spacing Criteria (90-270): 1.90

Spacing Criteria (Diagonal): 1.36



C Plane (°):0.0-360.0: 90.0

Test Lab: Inventfine instruments

Test Type: TYPE C

Temperature: 26

Operator:

Gamma Plane (°):0.0-90.0:1.0

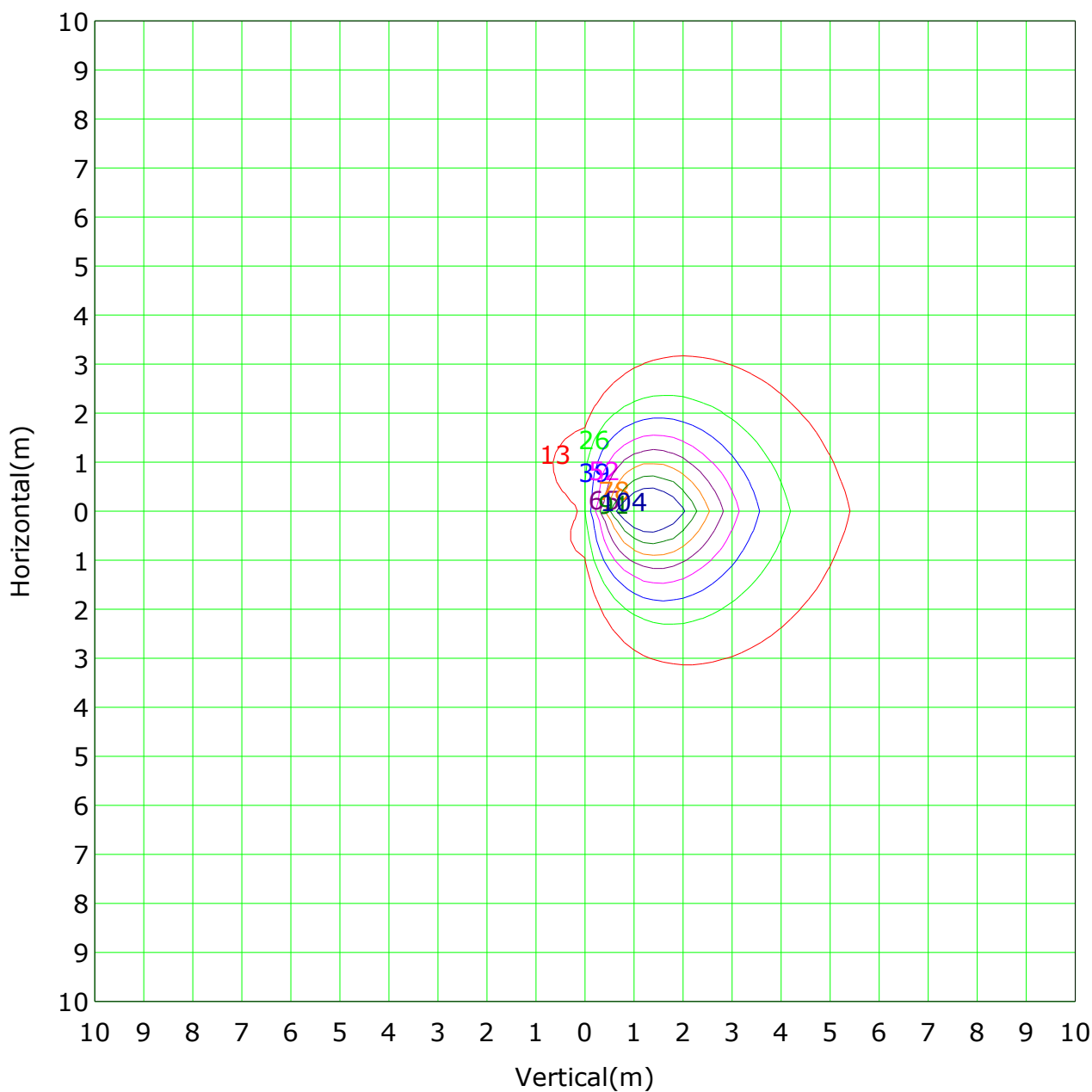
Test Device: GPM-1800B

Distance: 8.705 m [K=1.0000]

Humidity: 65

Inspector:

IsoLux Plot



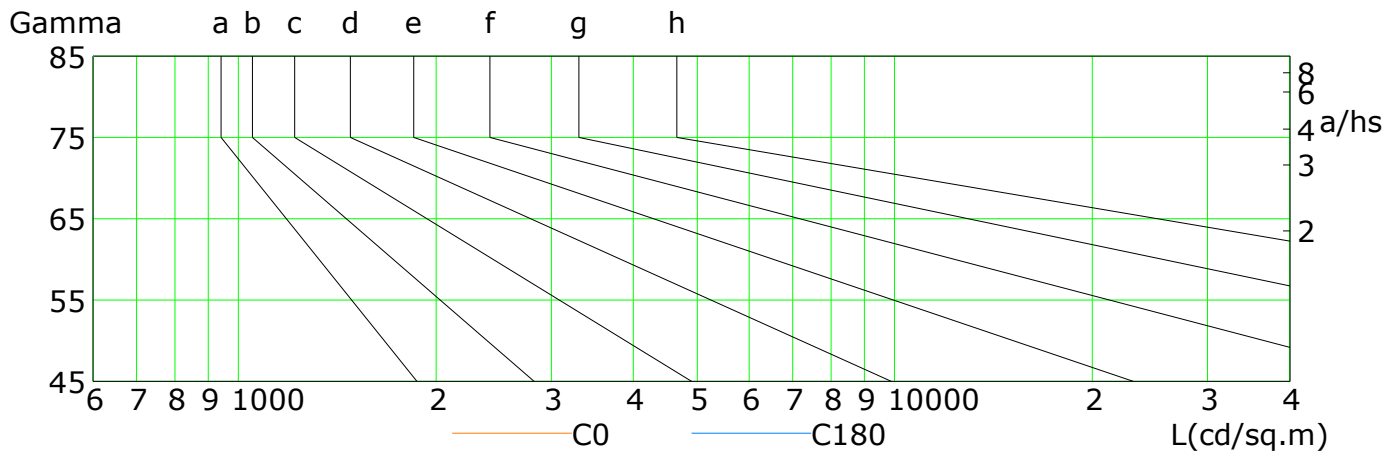
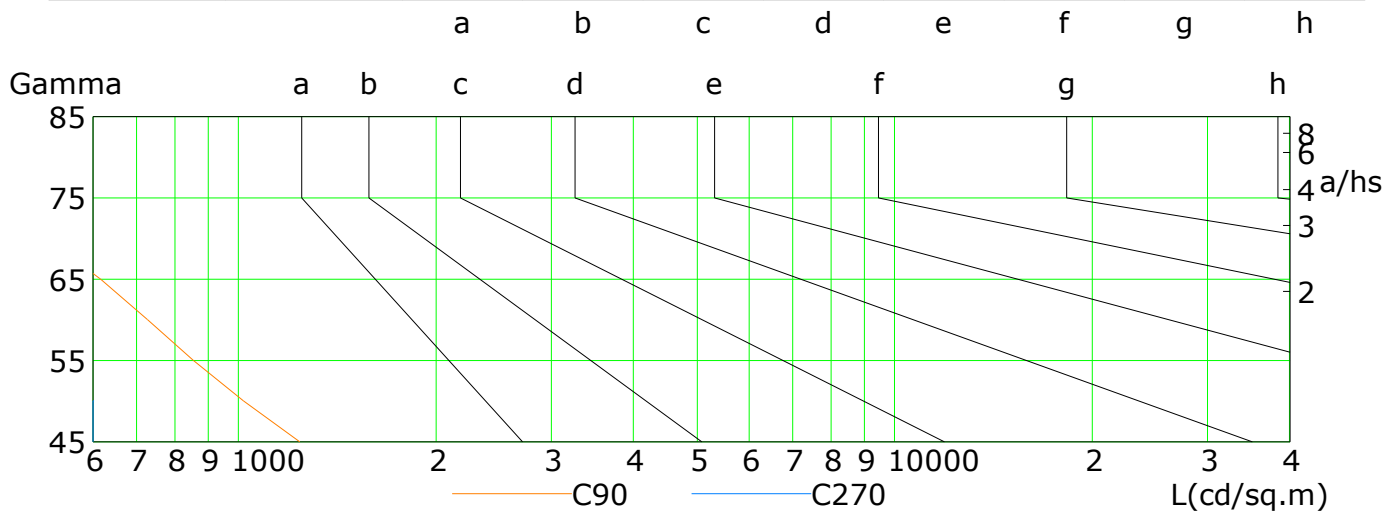
Mounting Height: 4.5m		Max Lux(100%): 130.3 lx	
(10%): 13.0 lx		(20%): 26.1 lx	
(30%): 39.1 lx		(40%): 52.1 lx	
(50%): 65.1 lx		(60%): 78.2 lx	
(70%): 91.2 lx		(80%): 104.2 lx	

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

Gamma Plane (°):0.0-90.0:1.0
 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

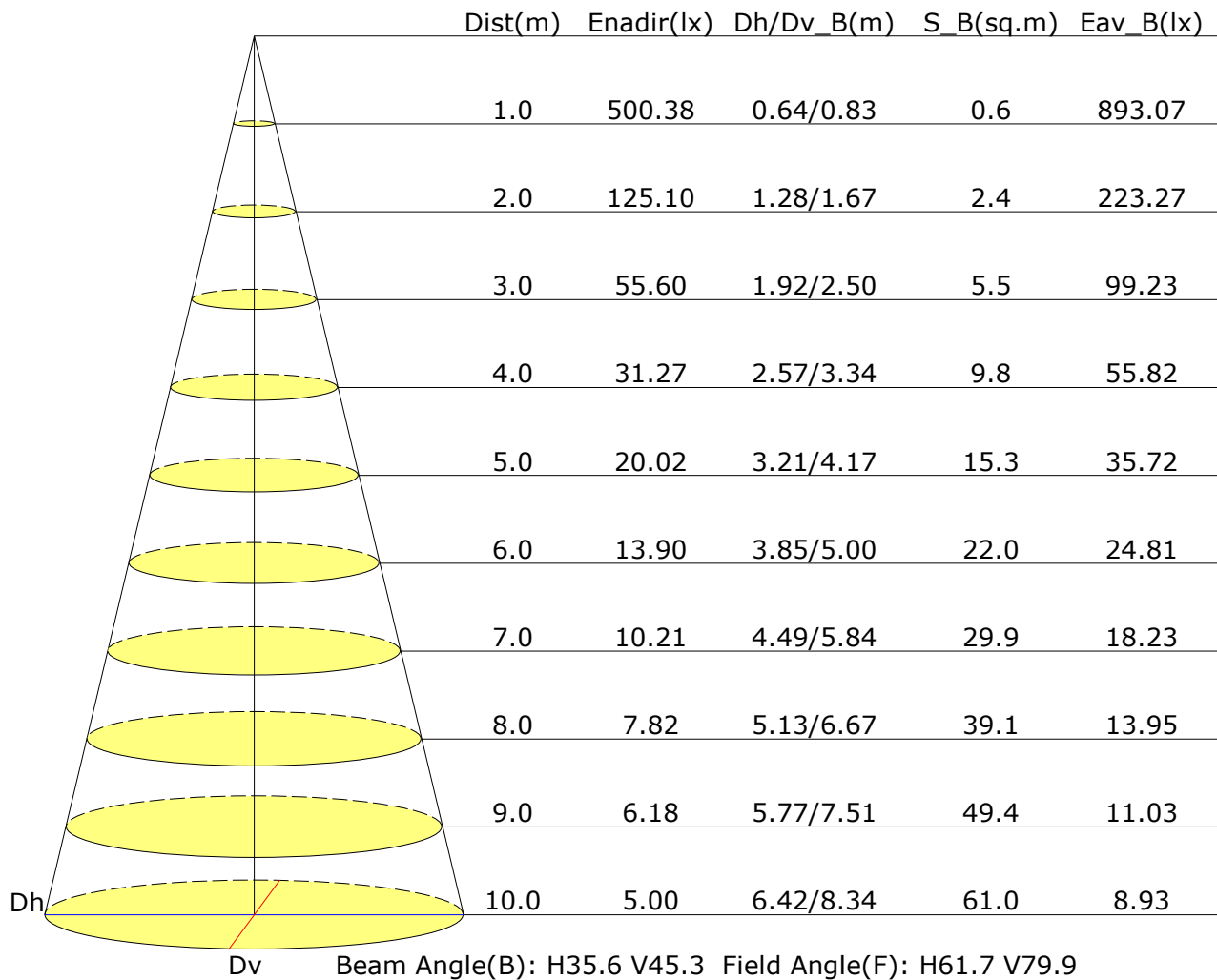


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	10	6	4	2	2	1	1	1	0
C90	1241	1018	856	726	616	511	397	254	100
C180	16	9	5	3	2	1	1	1	0
C270	0	0	1	1	1	1	1	2	2

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1800B
 Distance: 8.705 m [K=1.0000]
 Humidity: 65
 Inspector:

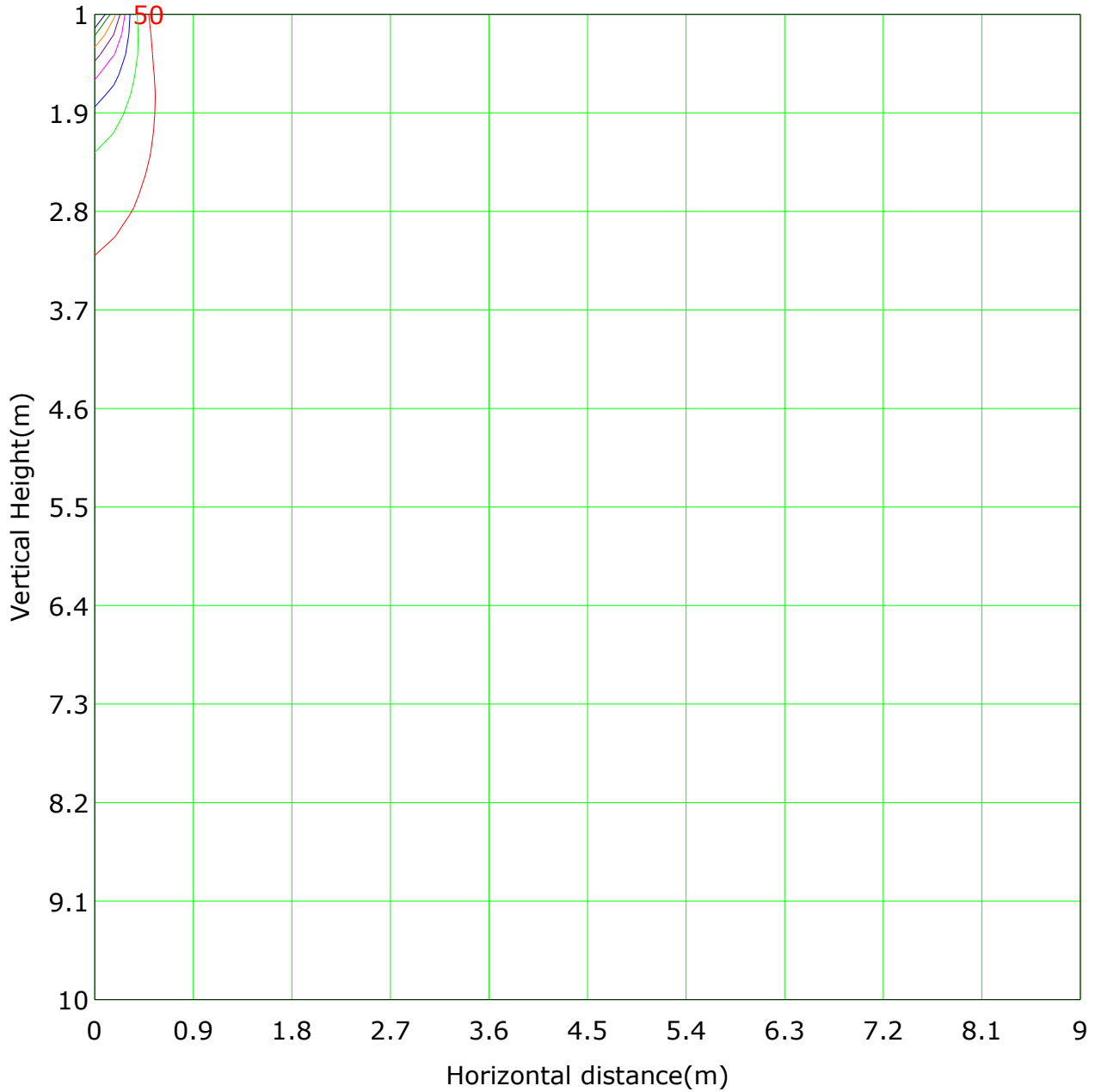
Illuminance at a Distance



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

Gamma Plane (°):0.0-90.0:1.0
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: 500.4 lx
(10%): 50.0 lx	(20%): 100.1 lx	
(30%): 150.1 lx	(40%): 200.2 lx	
(50%): 250.2 lx	(60%): 300.2 lx	
(70%): 350.3 lx	(80%): 400.3 lx	

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1800B
 Distance: 8.705 m [K=1.0000]
 Humidity: 65
 Inspector:

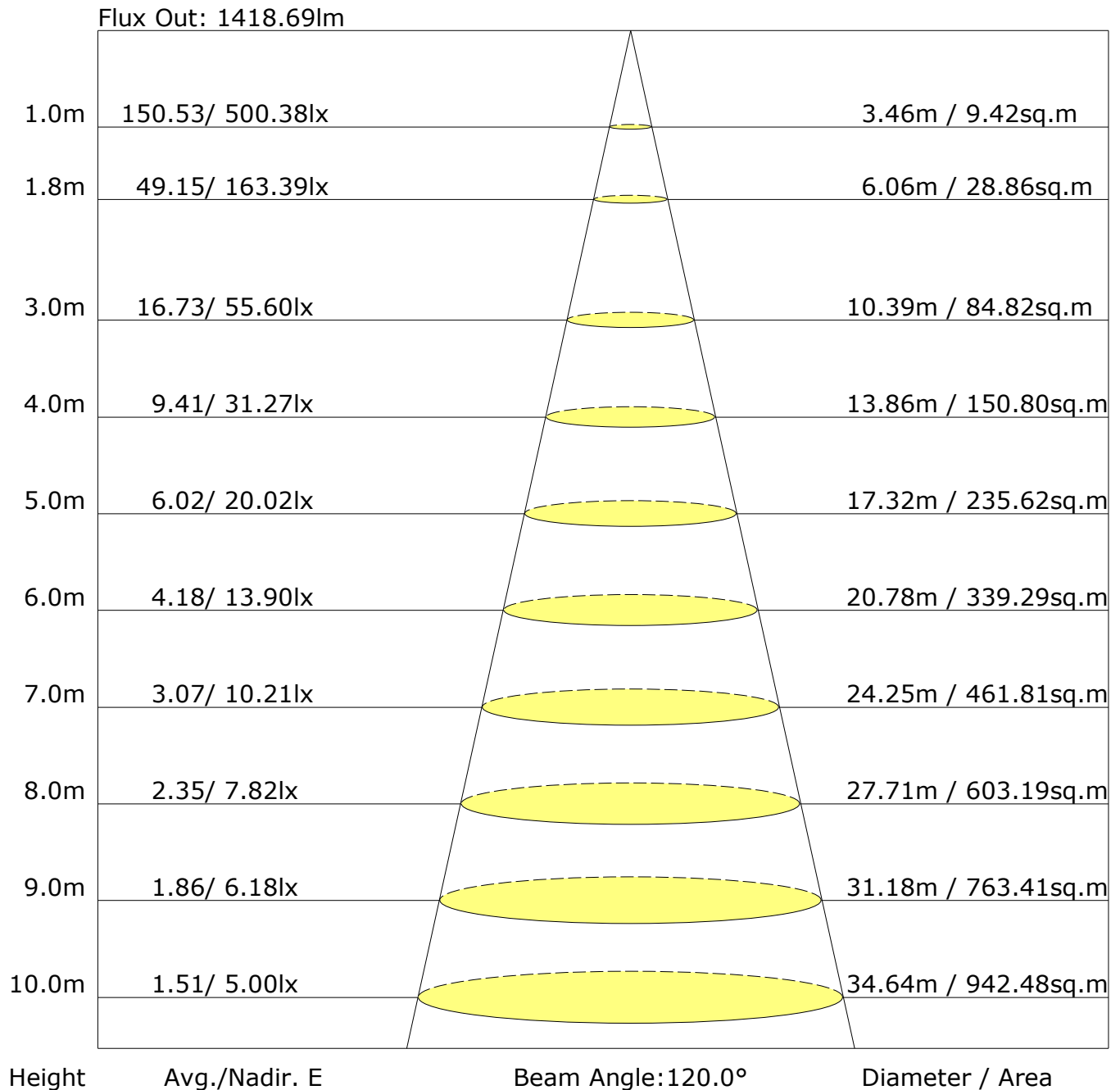
Area Flux Table

[illegible]

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

Gamma Plane (°):0.0-90.0:1.0
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 (°): 0.0-90.0: 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 1707lm ($8\log(F/F_0) = 1.9$).

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

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1800B
Distance: 8.705 m [K=1.0000]
Humidity: 65
Inspector:

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	505.9	0.5	0.5	0.03	0.03
1.0-2.0	520.3	1.5	2.0	0.09	0.12
2.0-3.0	546.2	2.6	4.6	0.15	0.27
3.0-4.0	581.8	3.9	8.5	0.23	0.50
4.0-5.0	621.6	5.3	13.8	0.31	0.81
5.0-6.0	665.4	7.0	20.8	0.41	1.22
6.0-7.0	711.8	8.8	29.7	0.52	1.74
7.0-8.0	755.6	10.8	40.5	0.63	2.37
8.0-9.0	793.0	12.9	53.3	0.75	3.12
9.0-10.0	824.8	14.9	68.3	0.87	4.00
10.0-11.0	850.4	17.0	85.3	1.00	4.99
11.0-12.0	871.2	19.0	104.3	1.12	6.11
12.0-13.0	886.2	21.0	125.3	1.23	7.34
13.0-14.0	894.7	22.9	148.2	1.34	8.68
14.0-15.0	899.7	24.7	172.9	1.45	10.13
15.0-16.0	901.1	26.4	199.3	1.55	11.68
16.0-17.0	898.1	28.0	227.3	1.64	13.32
17.0-18.0	892.5	29.4	256.8	1.72	15.04
18.0-19.0	883.2	30.7	287.5	1.80	16.84
19.0-20.0	866.9	31.7	319.2	1.86	18.70
20.0-21.0	846.9	32.5	351.7	1.91	20.60
21.0-22.0	832.2	33.4	385.2	1.96	22.56
22.0-23.0	818.7	34.4	419.5	2.01	24.58
23.0-24.0	795.9	34.8	454.4	2.04	26.61
24.0-25.0	769.6	35.0	489.3	2.05	28.66
25.0-26.0	745.0	35.2	524.5	2.06	30.72
26.0-27.0	720.0	35.2	559.7	2.06	32.79
27.0-28.0	694.1	35.1	594.9	2.06	34.85
28.0-29.0	667.4	34.9	629.8	2.05	36.89
29.0-30.0	640.1	34.6	664.4	2.02	38.92
30.0-31.0	613.2	34.1	698.5	2.00	40.92
31.0-32.0	588.3	33.7	732.2	1.97	42.89
32.0-33.0	563.8	33.2	765.4	1.95	44.84
33.0-34.0	537.7	32.5	798.0	1.91	46.74
34.0-35.0	512.4	31.8	829.8	1.86	48.61
35.0-36.0	489.2	31.2	861.0	1.82	50.43

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1800B
 Distance: 8.705 m [K=1.0000]
 Humidity: 65
 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	466.7	30.4	891.4	1.78	52.21
37.0-38.0	444.2	29.7	921.0	1.74	53.95
38.0-39.0	423.2	28.9	949.9	1.69	55.64
39.0-40.0	404.4	28.2	978.1	1.65	57.30
40.0-41.0	386.5	27.5	1005.7	1.61	58.91
41.0-42.0	368.7	26.8	1032.5	1.57	60.48
42.0-43.0	352.0	26.1	1058.5	1.53	62.00
43.0-44.0	337.2	25.5	1084.0	1.49	63.50
44.0-45.0	323.4	24.9	1108.8	1.46	64.95
45.0-46.0	309.8	24.2	1133.1	1.42	66.37
46.0-47.0	296.9	23.6	1156.7	1.38	67.75
47.0-48.0	285.3	23.1	1179.8	1.35	69.11
48.0-49.0	273.9	22.5	1202.3	1.32	70.42
49.0-50.0	263.1	21.9	1224.2	1.29	71.71
50.0-51.0	253.6	21.5	1245.7	1.26	72.97
51.0-52.0	244.7	21.0	1266.7	1.23	74.20
52.0-53.0	235.7	20.5	1287.2	1.20	75.40
53.0-54.0	227.3	20.0	1307.2	1.17	76.57
54.0-55.0	219.8	19.6	1326.8	1.15	77.72
55.0-56.0	212.3	19.2	1346.0	1.12	78.84
56.0-57.0	205.2	18.8	1364.8	1.10	79.94
57.0-58.0	198.7	18.4	1383.2	1.08	81.02
58.0-59.0	192.1	18.0	1401.1	1.05	82.07
59.0-60.0	185.9	17.6	1418.7	1.03	83.10
60.0-61.0	180.2	17.2	1435.9	1.01	84.11
61.0-62.0	174.4	16.8	1452.7	0.98	85.09
62.0-63.0	169.0	16.4	1469.1	0.96	86.06
63.0-64.0	163.7	16.1	1485.2	0.94	87.00
64.0-65.0	158.0	15.6	1500.8	0.92	87.91
65.0-66.0	152.3	15.2	1516.0	0.89	88.80
66.0-67.0	146.7	14.8	1530.8	0.86	89.67
67.0-68.0	141.8	14.4	1545.2	0.84	90.51
68.0-69.0	136.9	14.0	1559.1	0.82	91.33
69.0-70.0	131.5	13.5	1572.6	0.79	92.12
70.0-71.0	125.7	13.0	1585.6	0.76	92.88
71.0-72.0	120.2	12.5	1598.1	0.73	93.61

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

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1800B
 Distance: 8.705 m [K=1.0000]
 Humidity: 65
 Inspector:

Zonal Lumen (Continue 2)

[illegible]

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

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1800B
Distance: 8.705 m [K=1.0000]
Humidity: 65
Inspector:

Zonal Lumen (Continue 3)

cone flux(90°): 1108.85 lm

%lum = 65.0%

%lamp = 65.0%

cone flux(120°): 1418.69 lm

%lum = 83.1%

%lamp = 83.1%

Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	500.4	500.4	500.4	500.4	500.4					
G5.0	424.9	1556.4	533.9	56.4	424.9					
G10.0	327.2	2480.7	517.5	31.0	327.2					
G15.0	219.1	2927.7	448.6	11.0	219.1					
G20.0	123.7	2957.6	338.4	7.8	123.7					
G25.0	62.0	2749.2	216.9	1.2	62.0					
G30.0	32.4	2354.1	117.8	0.5	32.4					
G35.0	21.6	1921.9	58.7	0.0	21.6					
G40.0	15.5	1535.6	29.2	0.5	15.5					
G45.0	9.7	1240.8	16.3	0.0	9.7					
G50.0	5.8	1018.3	8.5	0.0	5.8					
G55.0	3.7	855.6	4.5	0.5	3.7					
G60.0	2.5	726.3	2.7	0.6	2.5					
G65.0	1.8	616.5	1.7	0.8	1.8					
G70.0	1.4	510.8	1.2	1.0	1.4					
G75.0	1.0	396.6	0.8	1.4	1.0					
G80.0	0.7	254.0	0.7	1.8	0.7					
G85.0	0.0	100.1	0.0	2.4	0.0					
G90.0	0.6	0.8	0.0	3.0	0.6					
G488.6	1343.0	530.7	84.3	443.5	0.0					
G407.4	2330.2	525.3	38.6	348.0	0.0					
G306.3	2873.9	465.2	11.9	239.8	0.0					
G199.3	2996.3	361.8	8.2	141.4	0.0					
G108.6	2814.4	239.5	3.0	70.5	0.0					
G53.5	2444.7	134.2	0.5	36.4	4.0					
G29.3	2006.0	67.7	0.0	23.1	9.0					
G20.4	1603.8	33.4	0.5	16.8	14.0					
G14.2	1290.7	18.0	0.5	10.9	19.0					
G8.9	1056.1	9.8	0.0	6.4	24.0					
G5.3	884.4	5.2	0.5	4.0	29.0					
G3.3	749.2	2.9	0.6	2.6	34.0					
G2.3	639.1	1.8	0.7	1.9	39.0					
G1.7	533.6	1.3	1.0	1.4	44.0					
G1.3	422.9	0.9	1.3	1.0	49.0					
G0.9	284.2	0.8	1.7	0.7	54.0					
G0.6	127.6	0.6	2.2	0.0	59.0					
G0.0	11.8	0.0	2.9	0.6	64.0					

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

Gamma Plane (°):0.0-90.0:1.0
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