

Report No.: TH-5671A

Test Time: 2025/9/19 10:51

Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Lamp Catalog:

Number of Lamps:

Luminous Length (mm): 720

Luminous Height (mm):

Current: 0.124 A

Power Factor: 0.972

Luminaire Description: 61.02355-723L

Lamp Description:

Lumens per Lamp:

Luminous Width (mm): 20

Voltage: 220.3 V

Power: 26.50 W

Photometric Results

CIE Class: Direct

Measurement Flux: 3082.2 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H43.2

Vertical Diffuse Angle(50%): V35.9

Luminaire Efficacy Rating (LER): 116.36

Max. Intensity: 4382.65 cd

S/MH(C0/C180): 0.67

Total Rated Lamp Lumens: 3082.2 lm

Efficiency: 100%

Upward Ratio: 0%

C0r0 Intensity: 4091.04 cd

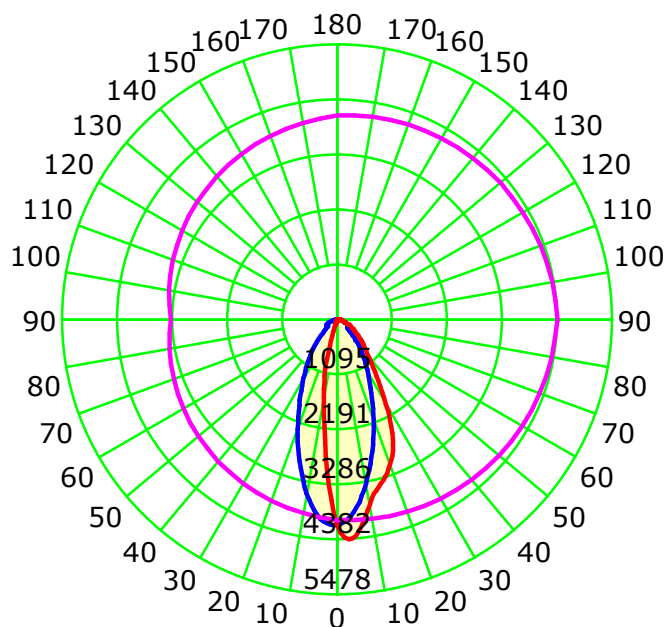
Pos of Max. Intensity: H90 V3

S/MH(C90/C270): 0.49

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 39.2°

— C0-C180 — C90-C270 — G3

C Plane (°):0.0-360.0: 90.0

Test Lab: Inventfine instruments

Test Type: TYPE C

Temperature: 26

Operator: Jack

Gamma Plane (°):0.0-90.0:1.0

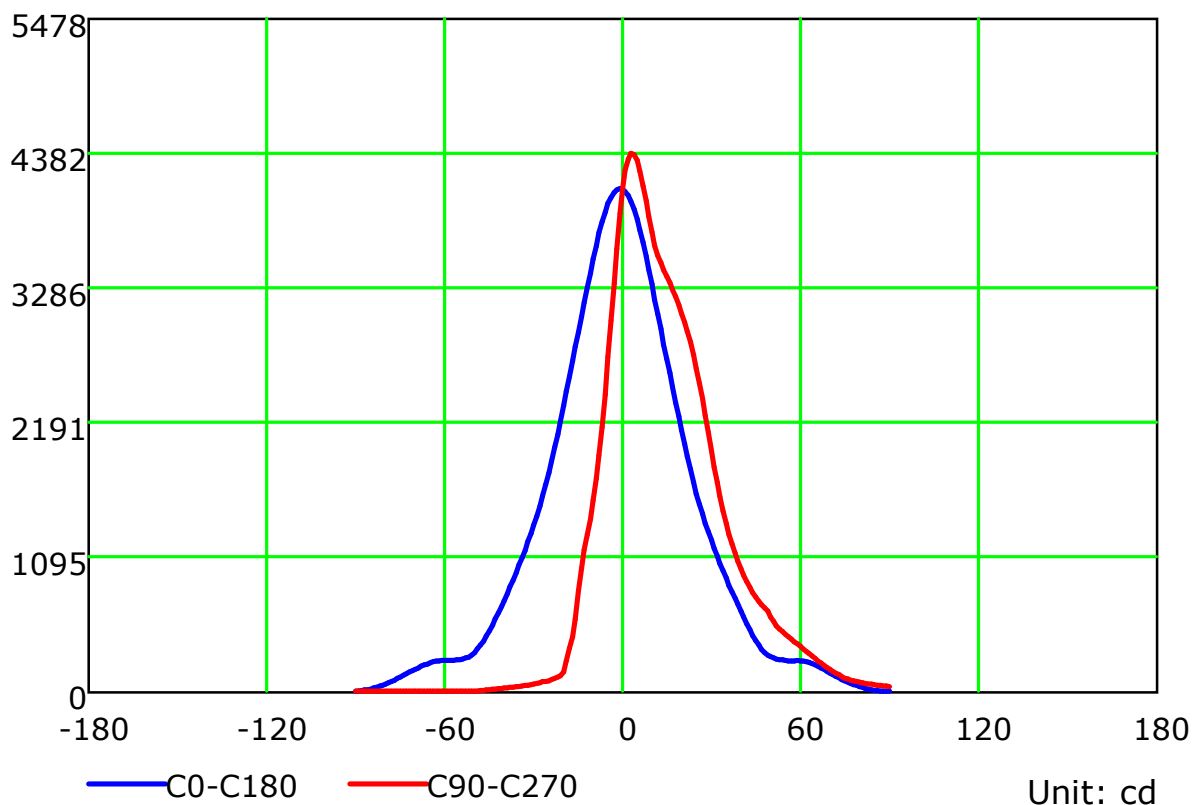
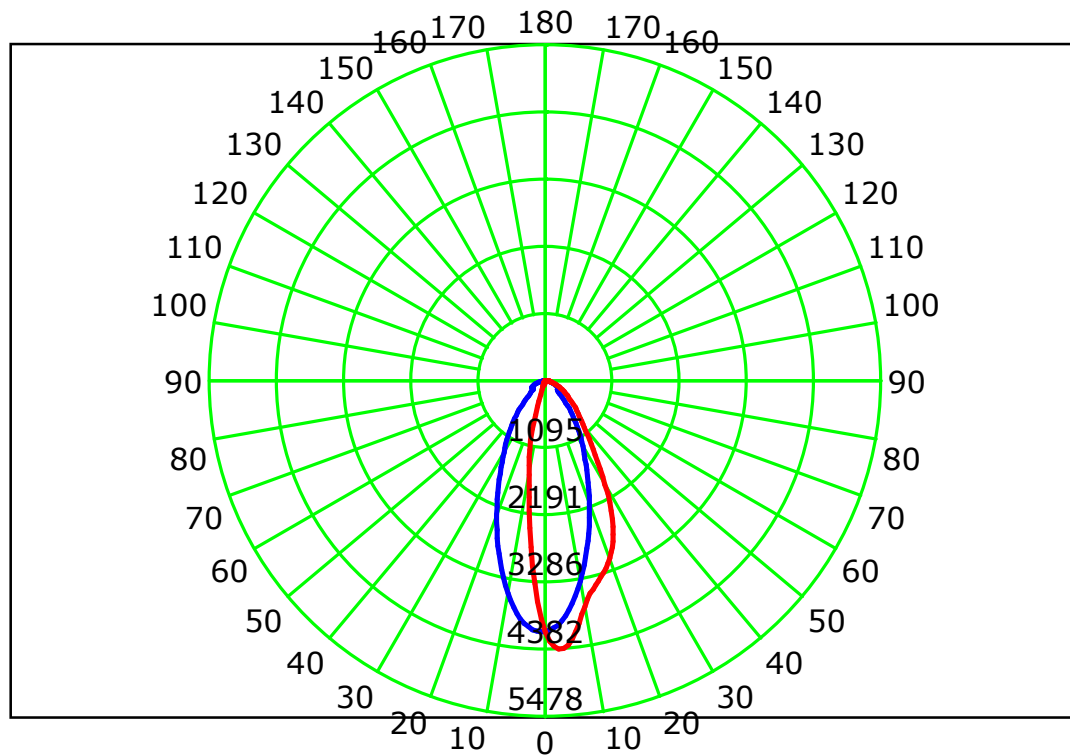
Test Device: GPM-1800B

Distance: 8.705 m [K=1.0000]

Humidity: 65

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 90.0
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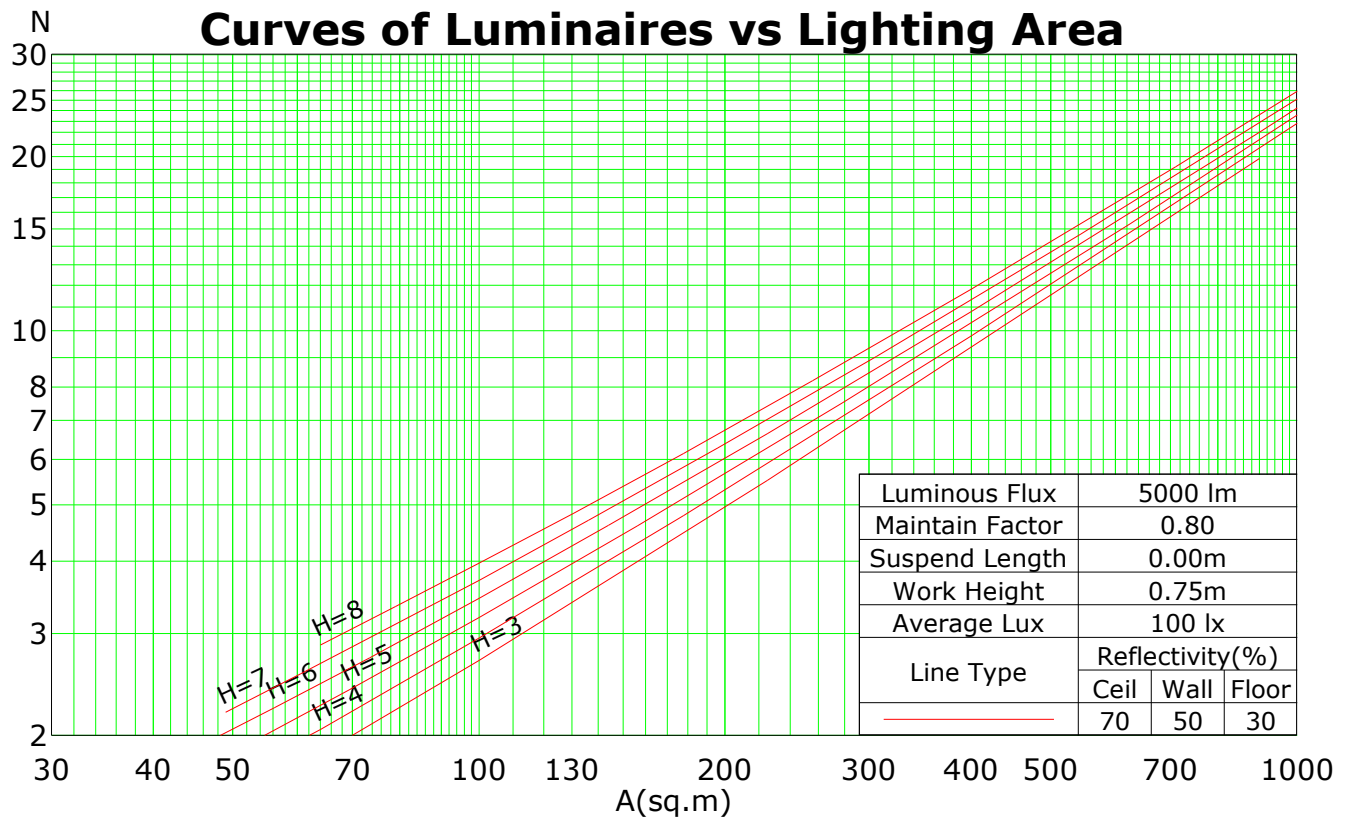
Coefficients Of Utilization - Zonal Cavity Method

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	1.12	1.08	1.05	1.02	1.09	1.06	1.03	1.00	1.02	0.99	0.97	0.98	0.96	0.94	0.95	0.93	0.92	0.90
2	1.04	0.98	0.93	0.89	1.02	0.97	0.92	0.88	0.93	0.89	0.86	0.90	0.87	0.84	0.87	0.85	0.82	0.80
3	0.98	0.90	0.84	0.79	0.96	0.88	0.83	0.78	0.86	0.81	0.77	0.83	0.79	0.76	0.81	0.77	0.74	0.73
4	0.92	0.83	0.76	0.71	0.90	0.81	0.75	0.70	0.79	0.74	0.70	0.77	0.72	0.69	0.75	0.71	0.68	0.66
5	0.86	0.76	0.69	0.64	0.85	0.75	0.69	0.64	0.74	0.68	0.63	0.72	0.67	0.63	0.70	0.66	0.62	0.61
6	0.82	0.71	0.64	0.59	0.80	0.70	0.64	0.59	0.69	0.63	0.58	0.67	0.62	0.58	0.66	0.61	0.57	0.56
7	0.77	0.66	0.59	0.54	0.76	0.66	0.59	0.54	0.64	0.58	0.54	0.63	0.58	0.54	0.62	0.57	0.53	0.52
8	0.73	0.62	0.55	0.51	0.72	0.62	0.55	0.50	0.60	0.54	0.50	0.59	0.54	0.50	0.58	0.53	0.50	0.48
9	0.69	0.58	0.52	0.47	0.68	0.58	0.52	0.47	0.57	0.51	0.47	0.56	0.51	0.47	0.55	0.50	0.47	0.45
10	0.66	0.55	0.49	0.44	0.65	0.55	0.48	0.44	0.54	0.48	0.44	0.53	0.48	0.44	0.52	0.47	0.44	0.42

Spacing Criteria (0-180): 0.67

Spacing Criteria (90-270): 0.49

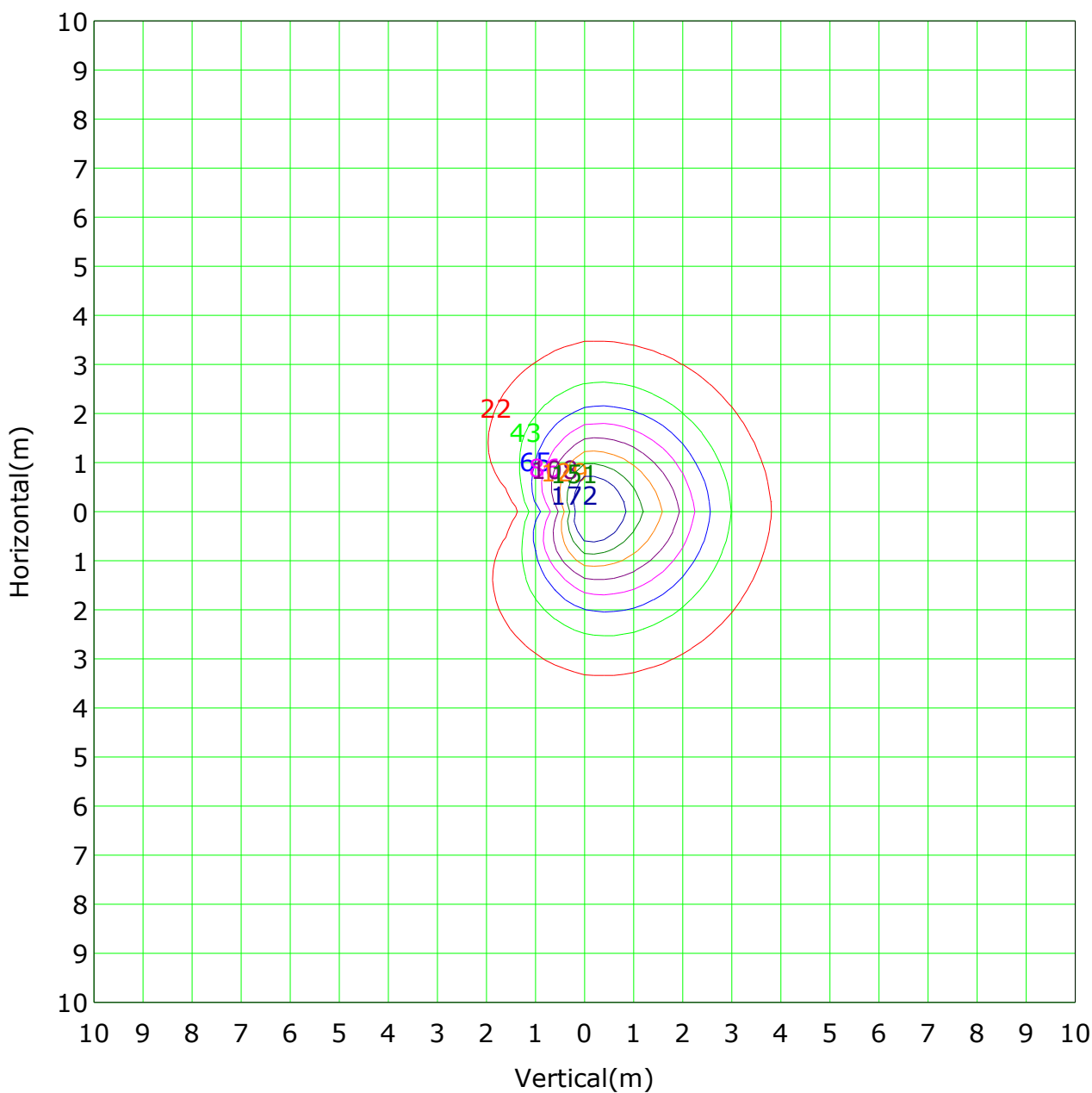
Spacing Criteria (Diagonal): 0.70



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

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%): 215.5 lx	
(10%): 21.6 lx	(20%): 43.1 lx	(40%): 86.2 lx	(60%): 129.3 lx
(30%): 64.7 lx	(50%): 107.8 lx	(70%): 150.9 lx	(80%): 172.4 lx

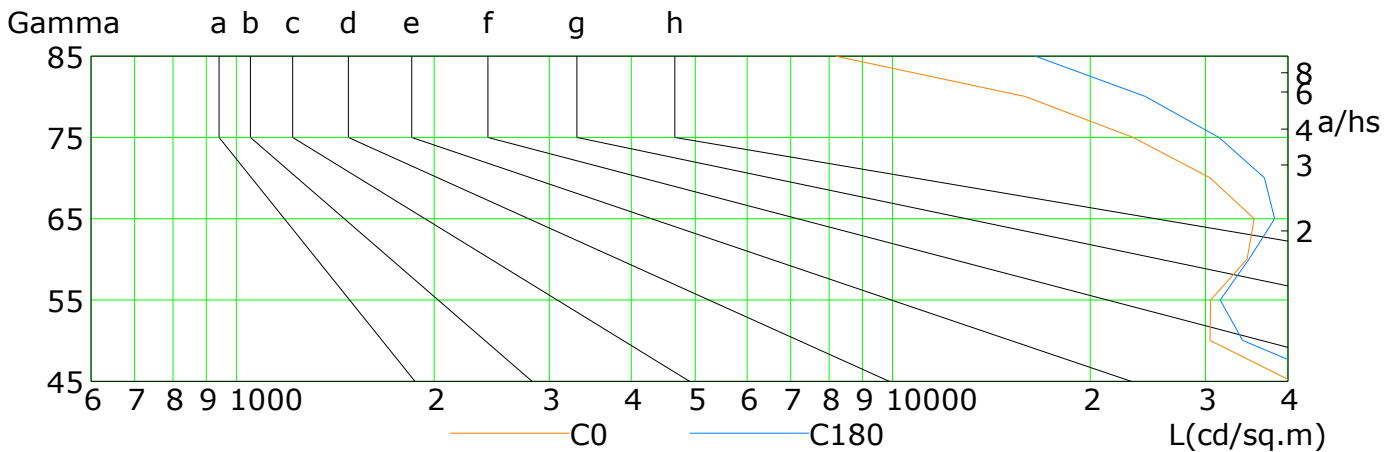
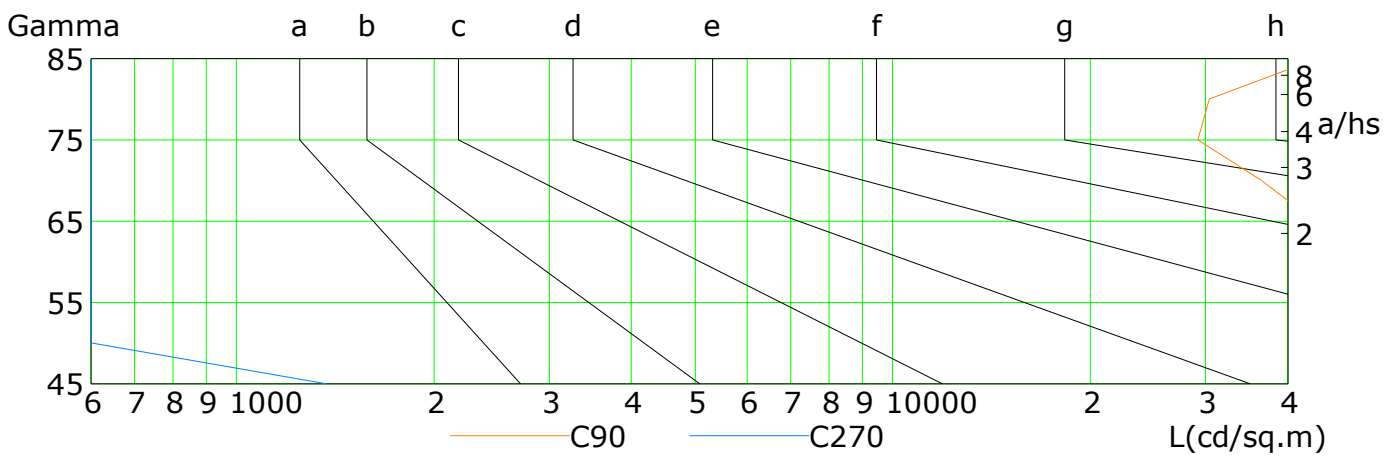
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 Humidity: 65
 Inspector:

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

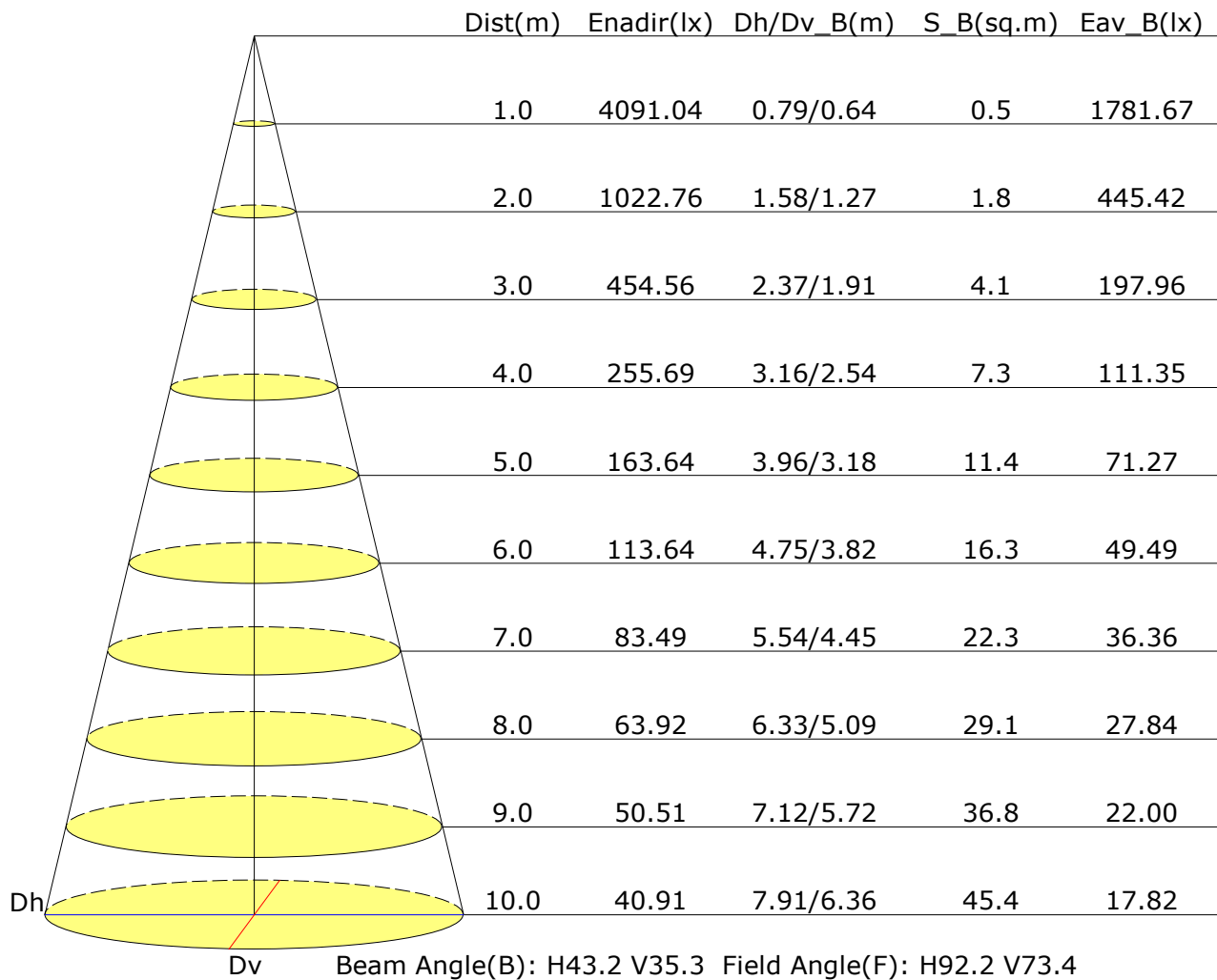


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	40792	30442	30524	34673	35577	30442	23260	15915	8189
C90	75569	65937	56301	50806	44176	36418	29164	30354	44034
C180	48453	34132	31558	34935	38240	36848	31455	24249	16490
C270	1374	0	0	0	0	0	0	0	0

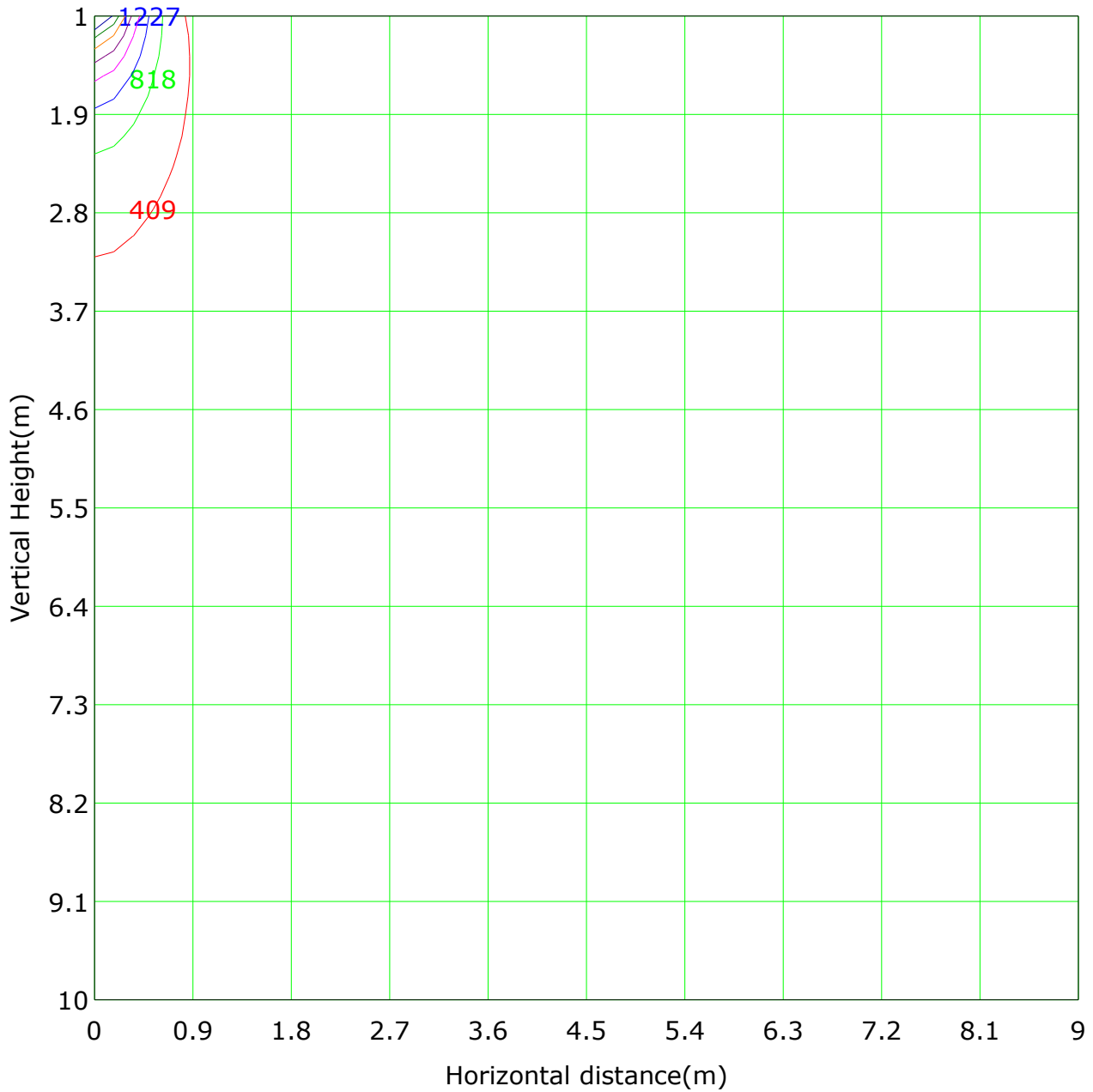
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Humidity: 65
Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 10.0m Max Lux: 4091.0 lx

(10%): 409.1 lx	(20%): 818.2 lx
(30%): 1227.3 lx	(40%): 1636.4 lx
(50%): 2045.5 lx	(60%): 2454.6 lx
(70%): 2863.7 lx	(80%): 3272.8 lx

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 Test Type: TYPE C
 Temperature: 26
 Operator: Jack

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

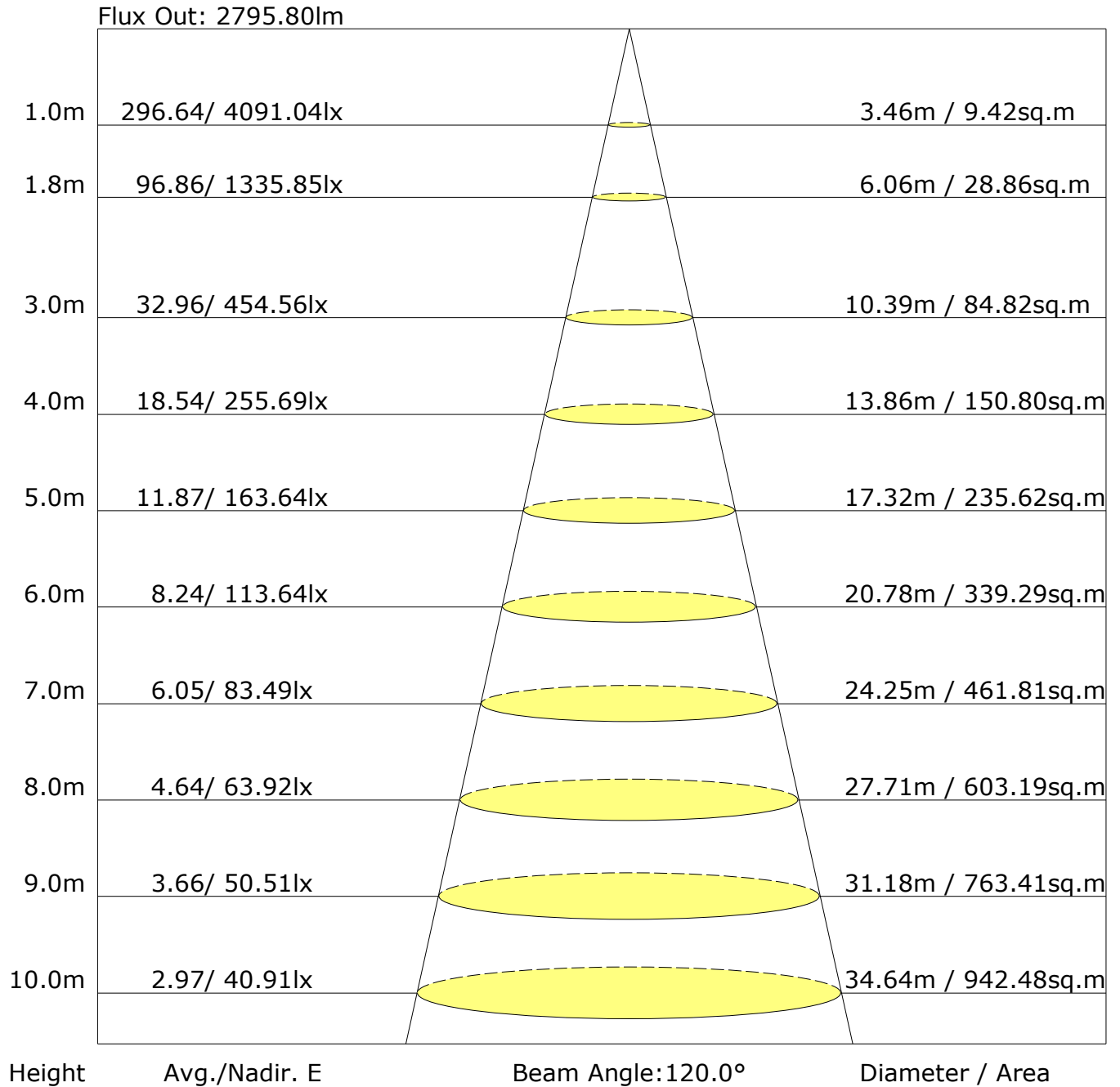
Unit: lm

Vertical plane	Orbit, m																		Flux(T)	Flux(E)	
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80			90
-90	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	1.2	0.0	
-80	0.0	0.1	0.3	0.5	0.7	0.9	0.8	0.6	0.2	0.2	0.4	0.6	0.6	0.6	0.5	0.3	0.2	0.0	6.9	0.0	
-70	0.0	0.2	0.6	1.2	1.7	1.9	1.7	1.2	0.4	0.4	1.1	1.5	1.6	1.6	1.3	0.9	0.4	0.1	0.0	16.3	0.0
-60	0.0	0.3	1.1	2.0	2.7	2.7	2.3	1.5	0.5	0.5	1.5	2.2	2.6	2.4	2.4	1.6	0.8	0.2	0.0	25.2	0.0
-50	0.1	0.5	1.5	2.7	3.3	3.3	3.4	3.1	1.5	1.4	2.7	3.1	3.2	3.2	3.2	2.5	1.2	0.3	0.0	36.9	0.0
-40	0.1	0.6	2.0	3.2	3.9	5.6	7.9	7.8	4.0	3.7	7.0	6.9	4.8	3.7	3.1	1.7	0.5	0.0	66.6	0.0	
-30	0.1	0.8	2.4	3.6	5.4	10.6	15.8	16.5	9.2	8.6	15.1	14.2	9.2	4.7	3.5	2.1	0.6	0.0	122.3	64.8	
-20	0.1	0.9	2.6	4.0	7.8	17.0	27.6	35.7	33.7	32.4	32.9	25.1	15.2	6.7	3.9	2.4	0.7	0.0	248.7	220.1	
-10	0.1	1.0	2.9	4.5	10.2	23.4	42.7	69.9	88.5	86.0	65.0	38.9	21.0	8.7	4.3	2.7	0.7	0.1	470.4	446.2	
0	0.1	1.0	3.0	4.8	11.1	26.0	50.7	85.5	117.0	114.5	80.5	46.9	23.7	9.6	4.6	2.8	0.8	0.1	582.6	559.1	
10	0.1	0.9	2.9	4.9	10.3	23.5	45.9	75.5	97.4	96.1	72.7	43.4	21.7	9.2	4.8	2.7	0.7	0.1	512.6	487.5	
20	0.1	0.8	2.7	4.9	8.7	18.3	33.7	54.9	73.4	72.8	53.5	32.1	16.9	8.1	4.8	2.5	0.6	0.0	388.9	360.6	
30	0.1	0.7	2.4	4.7	7.3	13.0	21.8	32.0	40.5	40.2	31.2	20.8	12.2	7.1	4.5	2.1	0.5	0.0	241.0	206.5	
40	0.1	0.6	1.9	4.0	6.4	9.3	13.9	19.0	22.8	22.6	18.5	13.5	9.2	6.3	3.8	1.6	0.4	0.0	153.9	106.3	
50	0.0	0.4	1.4	3.0	5.0	7.2	9.6	11.9	13.7	13.7	11.8	9.5	7.1	4.8	2.6	1.1	0.3	0.0	103.3	23.2	
60	0.0	0.3	0.9	1.9	3.1	4.6	6.0	7.2	8.0	8.0	7.1	5.8	4.3	2.8	1.5	0.7	0.2	0.0	62.6	0.0	
70	0.0	0.2	0.5	1.0	1.6	2.2	2.8	3.3	3.5	3.5	3.1	2.6	2.0	1.3	0.8	0.4	0.1	0.0	28.9	0.0	
80	0.0	0.1	0.2	0.4	0.7	1.0	1.2	1.5	1.6	1.6	1.4	1.2	0.9	0.6	0.4	0.2	0.1	0.0	13.1	0.0	
90	0.9	9.4	29.3	51.5	90.0	170.7	288.0	427.0	516.3	506.1	405.5	268.5	156.2	81.2	48.1	25.3	6.9	0.5	3081		
Flux(E)	0.0	0.0	0.0	0.0	27.8	125.5	248.2	390.2	483.6	474.1	369.1	228.8	110.1	16.9	0.0	0.0	0.0	0.0		2474	

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Humidity: 65
Inspector:

The Average Illuminance Effective Figure



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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	23.2	24.2	23.5	24.5	24.7	23.8	24.8	24.1	25.1	25.3
3H	24.6	25.5	24.9	25.8	26.0	24.7	25.7	25.0	25.9	26.2
4H	25.0	25.9	25.3	26.1	26.4	25.0	25.9	25.3	26.2	26.5
6H	25.2	26.0	25.5	26.3	26.6	25.2	26.1	25.6	26.4	26.7
8H	25.2	26.0	25.5	26.3	26.6	25.4	26.2	25.7	26.5	26.8
12H	25.2	26.0	25.5	26.3	26.6	25.5	26.3	25.9	26.6	27.0
X=4H Y=2H	23.7	24.6	24.1	24.9	25.2	24.2	25.1	24.5	25.4	25.6
3H	25.2	26.0	25.6	26.3	26.7	25.3	26.1	25.7	26.4	26.7
4H	25.7	26.4	26.1	26.7	27.1	25.7	26.4	26.1	26.7	27.1
6H	26.0	26.6	26.4	27.0	27.4	26.0	26.6	26.4	27.0	27.4
8H	26.0	26.6	26.5	27.0	27.4	26.2	26.8	26.6	27.2	27.6
12H	26.0	26.5	26.5	26.9	27.4	26.4	26.9	26.9	27.3	27.8
X=8H Y=4H	25.8	26.4	26.3	26.8	27.2	25.8	26.4	26.2	26.8	27.2
6H	26.2	26.6	26.6	27.1	27.5	26.3	26.7	26.7	27.1	27.6
8H	26.3	26.7	26.8	27.1	27.6	26.5	26.9	27.0	27.4	27.8
12H	26.3	26.7	26.8	27.1	27.6	26.9	27.2	27.4	27.7	28.2
X=12H Y=4H	25.8	26.3	26.3	26.7	27.2	25.8	26.3	26.2	26.7	27.1
6H	26.2	26.6	26.7	27.1	27.5	26.3	26.7	26.7	27.1	27.6
8H	26.3	26.7	26.8	27.1	27.6	26.6	26.9	27.1	27.4	27.9
Variations with the observer position at spacings:										
S=1.0H	+0.5/-0.5					+0.7/-0.7				
S=1.5H	+1.2/-0.7					+1.2/-1.4				
S=2.0H	+1.8/-1.1					+1.9/-2.3				

Calculate in accordance with CIE Pub.117. The table is revised with 3082lm ($8\log(F/F_0) = 3.9$).

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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	4084.3	3.9	3.9	0.13	0.13
1.0-2.0	4047.4	11.6	15.5	0.38	0.50
2.0-3.0	3978.8	19.0	34.6	0.62	1.12
3.0-4.0	3889.6	26.0	60.6	0.84	1.97
4.0-5.0	3779.5	32.5	93.1	1.06	3.02
5.0-6.0	3650.2	38.4	131.5	1.24	4.27
6.0-7.0	3510.3	43.6	175.1	1.41	5.68
7.0-8.0	3370.9	48.3	223.3	1.57	7.25
8.0-9.0	3234.0	52.4	275.7	1.70	8.95
9.0-10.0	3101.9	56.1	331.9	1.82	10.77
10.0-11.0	2974.1	59.4	391.3	1.93	12.70
11.0-12.0	2855.6	62.4	453.7	2.03	14.72
12.0-13.0	2746.7	65.2	518.9	2.12	16.84
13.0-14.0	2636.7	67.5	586.4	2.19	19.03
14.0-15.0	2519.8	69.2	655.6	2.24	21.27
15.0-16.0	2395.2	70.2	725.8	2.28	23.55
16.0-17.0	2277.1	70.9	796.7	2.30	25.85
17.0-18.0	2172.1	71.6	868.4	2.32	28.17
18.0-19.0	2070.9	72.1	940.4	2.34	30.51
19.0-20.0	1973.4	72.2	1012.6	2.34	32.85
20.0-21.0	1882.1	72.3	1084.9	2.35	35.20
21.0-22.0	1801.3	72.4	1157.3	2.35	37.55
22.0-23.0	1727.2	72.5	1229.8	2.35	39.90
23.0-24.0	1648.0	72.1	1301.9	2.34	42.24
24.0-25.0	1566.8	71.3	1373.1	2.31	44.55
25.0-26.0	1489.9	70.3	1443.5	2.28	46.83
26.0-27.0	1413.7	69.2	1512.6	2.24	49.08
27.0-28.0	1337.7	67.7	1580.4	2.20	51.27
28.0-29.0	1262.8	66.1	1646.4	2.14	53.42
29.0-30.0	1188.5	64.2	1710.6	2.08	55.50
30.0-31.0	1117.5	62.2	1772.8	2.02	57.52
31.0-32.0	1051.5	60.2	1833.1	1.95	59.47
32.0-33.0	987.8	58.2	1891.3	1.89	61.36
33.0-34.0	925.6	56.0	1947.3	1.82	63.18
34.0-35.0	867.8	53.9	2001.2	1.75	64.93
35.0-36.0	814.2	51.8	2053.0	1.68	66.61

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 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	763.1	49.8	2102.8	1.61	68.22
37.0-38.0	714.9	47.7	2150.5	1.55	69.77
38.0-39.0	670.1	45.7	2196.3	1.48	71.26
39.0-40.0	627.0	43.7	2240.0	1.42	72.68
40.0-41.0	585.9	41.7	2281.7	1.35	74.03
41.0-42.0	546.6	39.7	2321.5	1.29	75.32
42.0-43.0	508.8	37.7	2359.1	1.22	76.54
43.0-44.0	472.4	35.7	2394.8	1.16	77.70
44.0-45.0	438.6	33.7	2428.5	1.09	78.79
45.0-46.0	408.5	31.9	2460.5	1.04	79.83
46.0-47.0	380.7	30.3	2490.7	0.98	80.81
47.0-48.0	355.9	28.8	2519.5	0.93	81.74
48.0-49.0	333.6	27.4	2546.9	0.89	82.63
49.0-50.0	312.5	26.1	2573.0	0.85	83.48
50.0-51.0	293.5	24.8	2597.8	0.81	84.28
51.0-52.0	277.9	23.9	2621.7	0.77	85.06
52.0-53.0	265.3	23.1	2644.8	0.75	85.81
53.0-54.0	255.8	22.6	2667.3	0.73	86.54
54.0-55.0	248.1	22.2	2689.5	0.72	87.26
55.0-56.0	241.4	21.8	2711.3	0.71	87.97
56.0-57.0	235.2	21.5	2732.8	0.70	88.66
57.0-58.0	229.8	21.3	2754.0	0.69	89.35
58.0-59.0	224.8	21.0	2775.1	0.68	90.03
59.0-60.0	219.5	20.7	2795.8	0.67	90.71
60.0-61.0	213.9	20.4	2816.2	0.66	91.37
61.0-62.0	207.9	20.0	2836.3	0.65	92.02
62.0-63.0	201.1	19.6	2855.8	0.63	92.66
63.0-64.0	193.3	19.0	2874.8	0.62	93.27
64.0-65.0	184.4	18.2	2893.0	0.59	93.86
65.0-66.0	174.4	17.4	2910.4	0.56	94.43
66.0-67.0	164.2	16.5	2926.9	0.54	94.96
67.0-68.0	153.9	15.6	2942.5	0.51	95.47
68.0-69.0	143.2	14.6	2957.1	0.47	95.94
69.0-70.0	132.6	13.6	2970.8	0.44	96.38
70.0-71.0	122.9	12.7	2983.5	0.41	96.80
71.0-72.0	112.9	11.7	2995.2	0.38	97.18

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

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: Jack

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°): 2428.52 lm

%lum = 78.8%

%lamp = 78.8%

cone flux(120°): 2795.80 lm

%lum = 90.7%

%lamp = 90.7%

Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	4091.0	4091.0	4091.0	4091.0	4091.0					
G5.0	3846.3	4326.8	3978.3	2728.5	3846.3					
G10.0	3319.8	3745.5	3523.7	1560.0	3319.8					
G15.0	2710.5	3386.0	2926.9	814.3	2710.5					
G20.0	2132.6	3082.4	2328.3	160.8	2132.6					
G25.0	1611.3	2632.4	1779.8	87.1	1611.3					
G30.0	1232.5	1960.2	1352.4	61.3	1232.5					
G35.0	923.9	1369.2	1028.1	40.6	923.9					
G40.0	655.9	1000.6	739.0	26.1	655.9					
G45.0	415.4	769.5	493.4	14.0	415.4					
G50.0	281.8	610.3	315.9	0.0	281.8					
G55.0	252.1	465.0	260.6	0.0	252.1					
G60.0	249.6	365.8	251.5	0.0	249.6					
G65.0	216.5	268.8	232.7	0.0	216.5					
G70.0	149.9	179.4	181.5	0.0	149.9					
G75.0	86.7	108.7	117.2	0.0	86.7					
G80.0	39.8	75.9	60.6	0.0	39.8					
G85.0	10.3	55.3	20.7	0.0	10.3					
G90.0	0.0	41.6	0.0	0.0	0.0					
G4074.1	4375.7	4027.2	3023.2	3929.7	0.0					
G3757.0	3866.3	3630.8	1734.0	3434.7	0.0					
G3192.3	3434.8	3054.1	1004.5	2827.0	0.0					
G2595.3	3149.7	2445.8	245.5	2241.8	0.0					
G2016.4	2744.3	1876.3	98.9	1704.6	0.0					
G1525.4	2111.4	1425.5	64.3	1300.0	4.0					
G1164.7	1467.4	1087.7	44.5	981.1	9.0					
G863.4	1059.6	796.3	28.6	710.0	14.0					
G605.2	806.6	538.2	16.1	455.3	19.0					
G378.5	652.6	344.9	0.0	294.2	24.0					
G272.9	485.7	265.9	0.0	255.7	29.0					
G249.9	386.6	252.3	0.0	250.5	34.0					
G247.2	289.2	240.7	0.0	226.9	39.0					
G205.2	194.2	192.9	0.0	163.2	44.0					
G137.0	123.1	130.8	0.0	98.7	49.0					
G76.7	81.4	71.1	0.0	48.0	54.0					
G32.3	58.4	27.1	0.0	14.8	59.0					
G6.4	43.4	0.0	0.0	0.0	64.0					

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

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	36908.39
L 0-180(75) av	27357.44
L 0-180(85) av	12339.43
L 90-270(65) av	22087.75
L 90-270(75) av	14582.13
L 90-270(85) av	22017.19
L 45(65) av	29498.07
L 45(75) av	20969.78
L 45(85) av	17178.31

Standard: GB/T 29293-2012