

Report No.: TH-5671A

Test Time: 2025/9/19 11:33

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Lamp Catalog:

Number of Lamps:

Luminous Length (mm): -40

Luminous Height (mm):

Current: 0.041 A

Power Factor: 0.943

Luminaire Description: 9W

Lamp Description:

Lumens per Lamp:

Luminous Width (mm): -40

Voltage: 220.4 V

Power: 8.47 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 424.9 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H48.2

Vertical Diffuse Angle(50%): V48.5

Luminaire Efficacy Rating (LER): 50.22

Max. Intensity: 529.82 cd

S/MH(C0/C180): 0.75

Total Rated Lamp Lumens: 424.9 lm

Efficiency: 100%

Upward Ratio: 0%

C0r0 Intensity: 478.42 cd

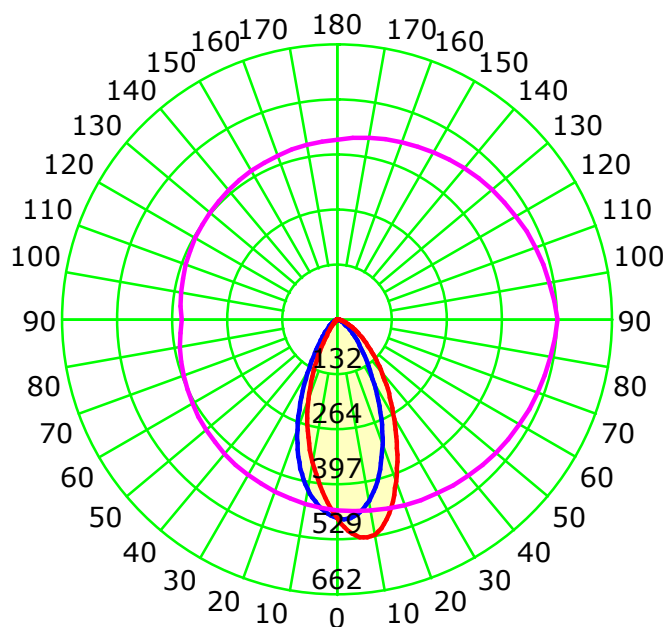
Pos of Max. Intensity: H90 V8

S/MH(C90/C270): 0.77

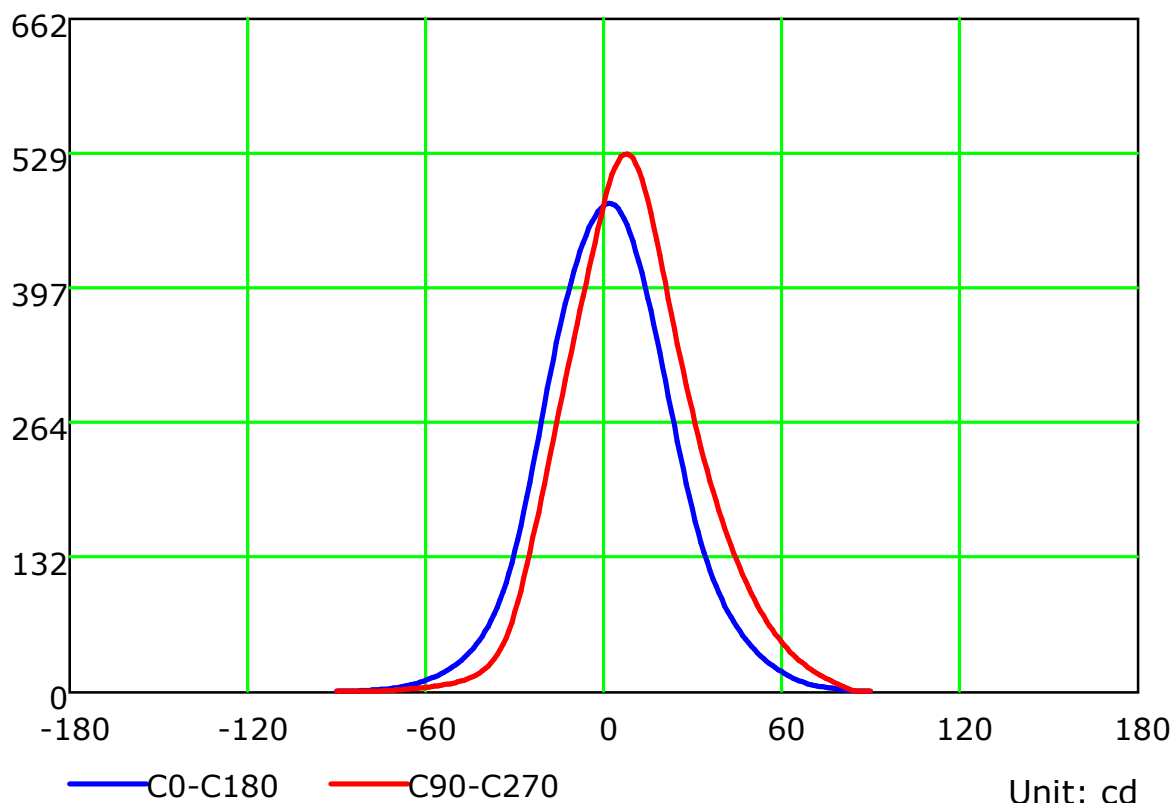
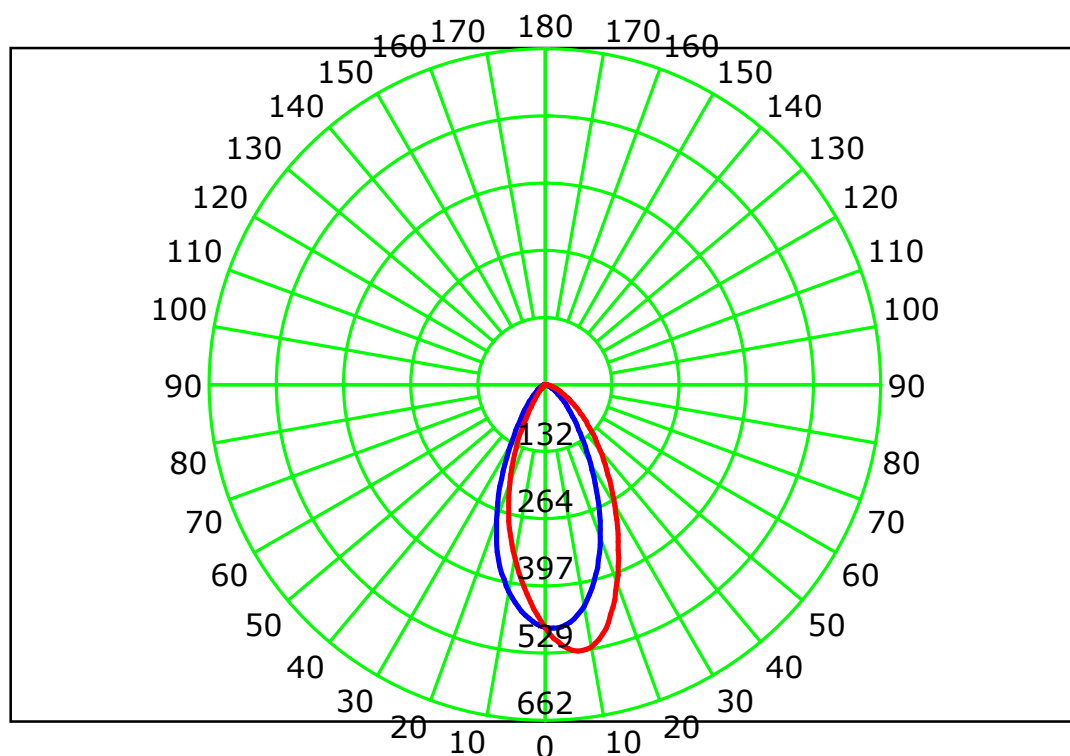
Picture Of Luminaire



Luminous Intensity Distribution Curve



## Luminous Intensity Distribution Curve



Unit: cd

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:

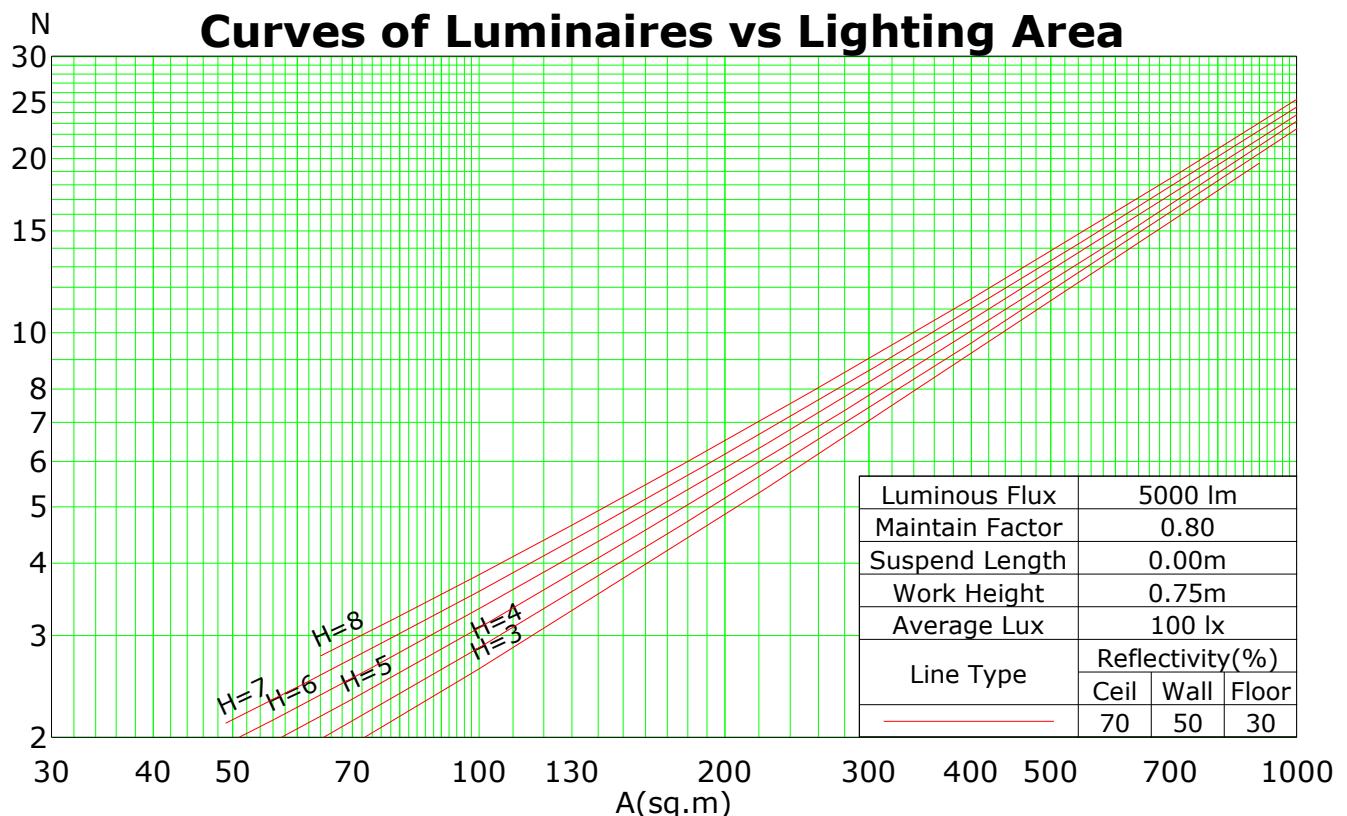
## Coefficients Of Utilization - Zonal Cavity Method

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	1.13	1.09	1.06	1.04	1.10	1.07	1.05	1.02	1.03	1.01	0.99	0.99	0.98	0.96	0.96	0.95	0.93	0.91
2	1.06	1.00	0.96	0.92	1.04	0.98	0.94	0.91	0.95	0.92	0.89	0.92	0.89	0.87	0.89	0.87	0.85	0.83
3	1.00	0.92	0.86	0.82	0.97	0.91	0.86	0.81	0.88	0.84	0.80	0.86	0.82	0.79	0.83	0.80	0.77	0.76
4	0.94	0.85	0.79	0.74	0.92	0.84	0.78	0.74	0.82	0.77	0.73	0.80	0.75	0.72	0.78	0.74	0.71	0.69
5	0.88	0.79	0.72	0.68	0.87	0.78	0.72	0.67	0.76	0.71	0.67	0.74	0.70	0.66	0.73	0.69	0.65	0.64
6	0.83	0.74	0.67	0.62	0.82	0.73	0.66	0.62	0.71	0.66	0.61	0.70	0.65	0.61	0.68	0.64	0.60	0.59
7	0.79	0.69	0.62	0.57	0.78	0.68	0.62	0.57	0.67	0.61	0.57	0.65	0.60	0.57	0.64	0.60	0.56	0.55
8	0.75	0.64	0.58	0.53	0.74	0.64	0.58	0.53	0.63	0.57	0.53	0.62	0.56	0.53	0.61	0.56	0.52	0.51
9	0.71	0.61	0.54	0.50	0.70	0.60	0.54	0.50	0.59	0.53	0.50	0.58	0.53	0.49	0.57	0.53	0.49	0.48
10	0.68	0.57	0.51	0.47	0.67	0.57	0.51	0.47	0.56	0.50	0.46	0.55	0.50	0.46	0.54	0.50	0.46	0.45

Spacing Criteria (0-180): 0.75

Spacing Criteria (90-270): 0.77

Spacing Criteria (Diagonal): 0.79



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

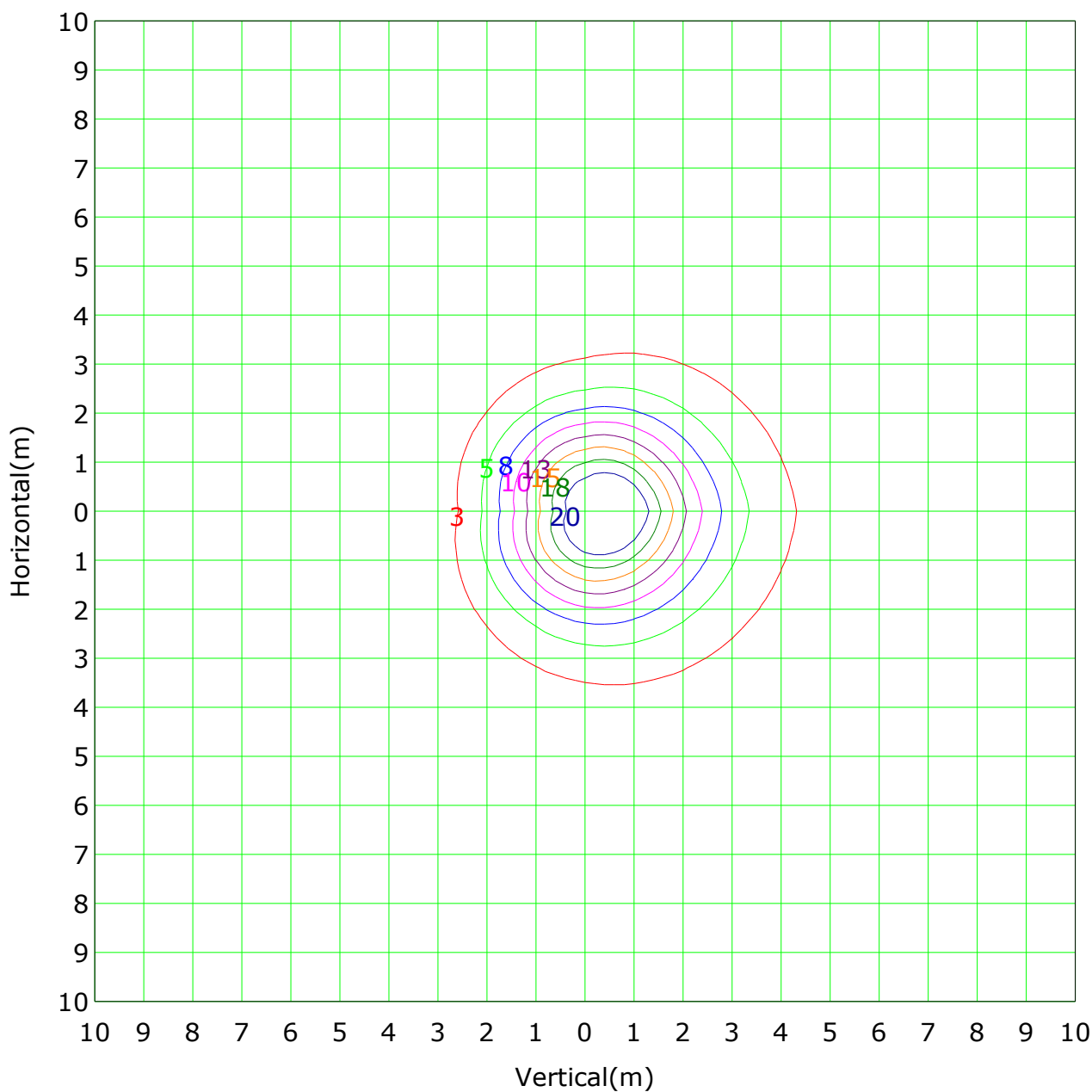
Test Device: GPM-1800B

Distance: 8.705 m [K=1.0000]

Humidity: 65

Inspector:

## IsoLux Plot



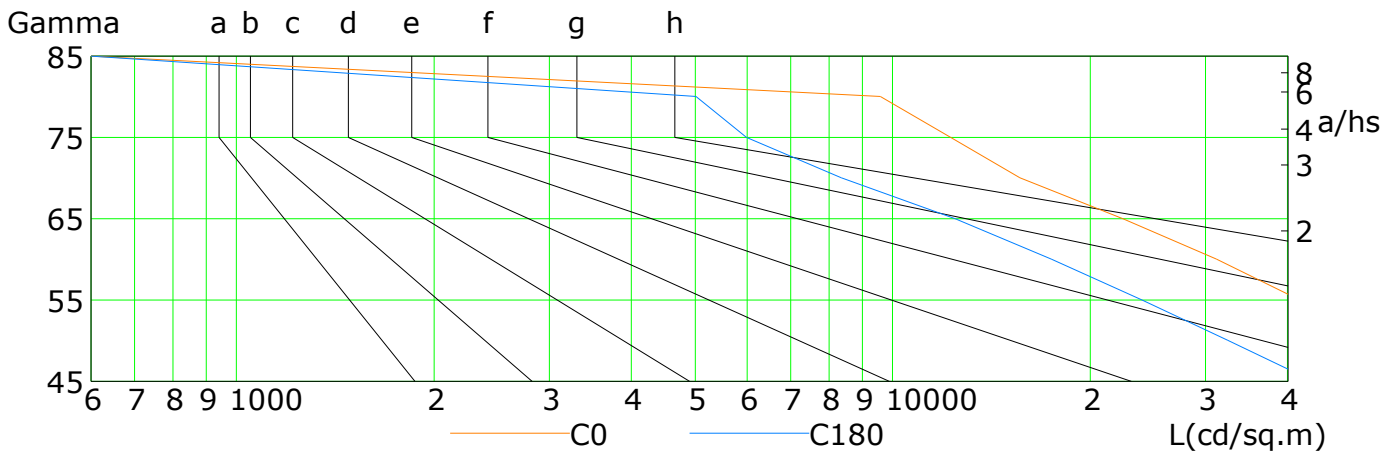
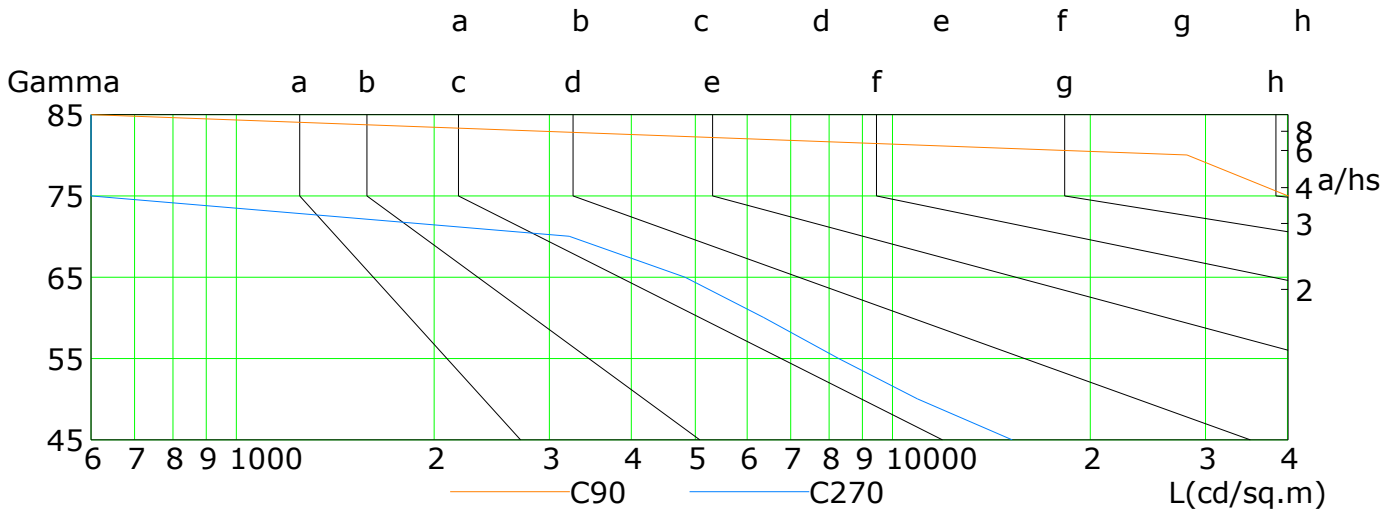
Mounting Height: 4.5m		Max Lux(100%): 25.6 lx	
— ( 10%):	2.6 lx	— ( 20%):	5.1 lx
— ( 30%):	7.7 lx	— ( 40%):	10.2 lx
— ( 50%):	12.8 lx	— ( 60%):	15.4 lx
— ( 70%):	17.9 lx	— ( 80%):	20.5 lx

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 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

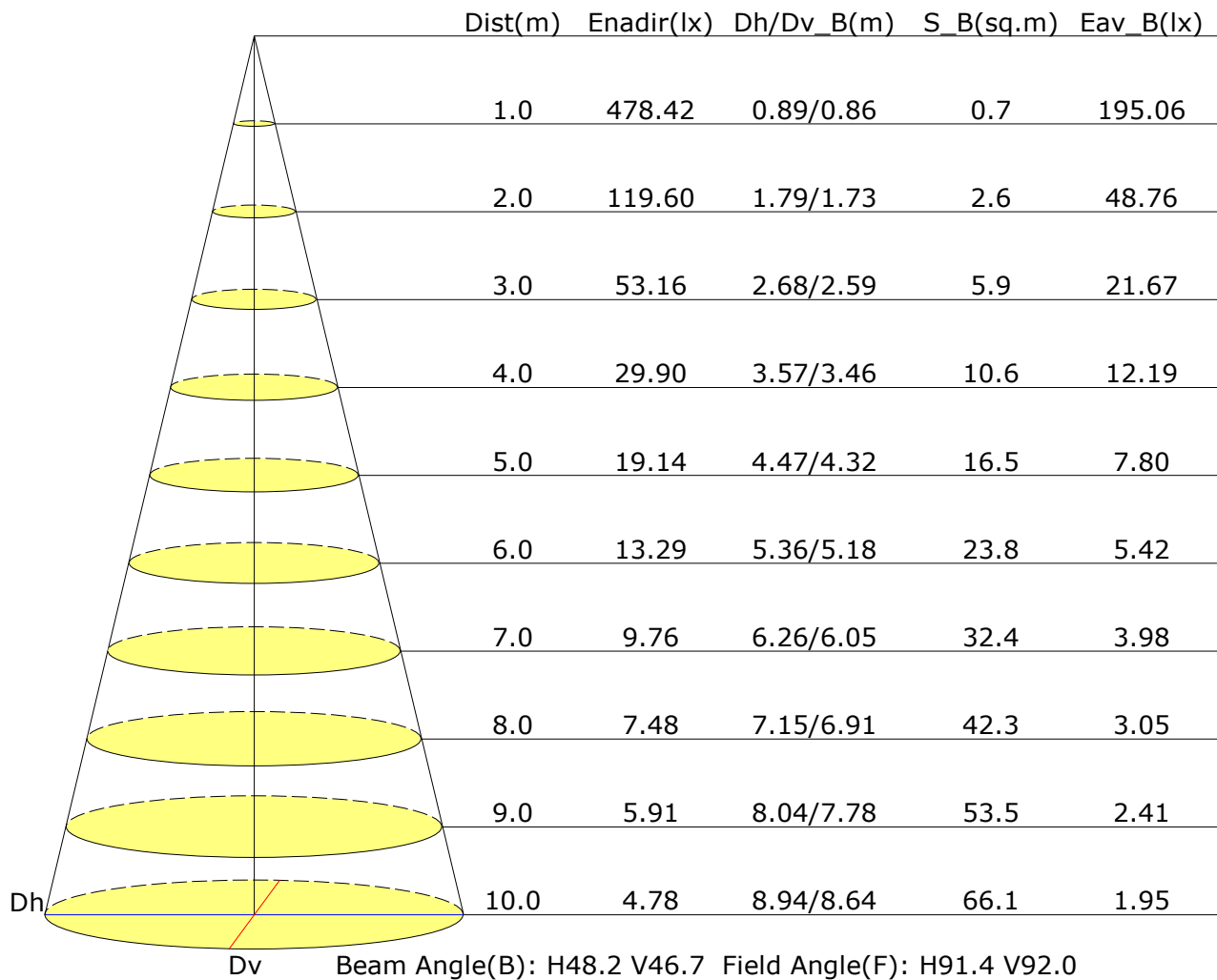


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	71777	54969	41881	31145	22434	15612	12262	9573	0
C90	145816	119006	96944	78123	62915	50633	40007	28083	0
C180	44045	32447	23971	17443	12465	8344	5992	5018	0
C270	15202	10919	8281	6371	4826	3213	0	0	0

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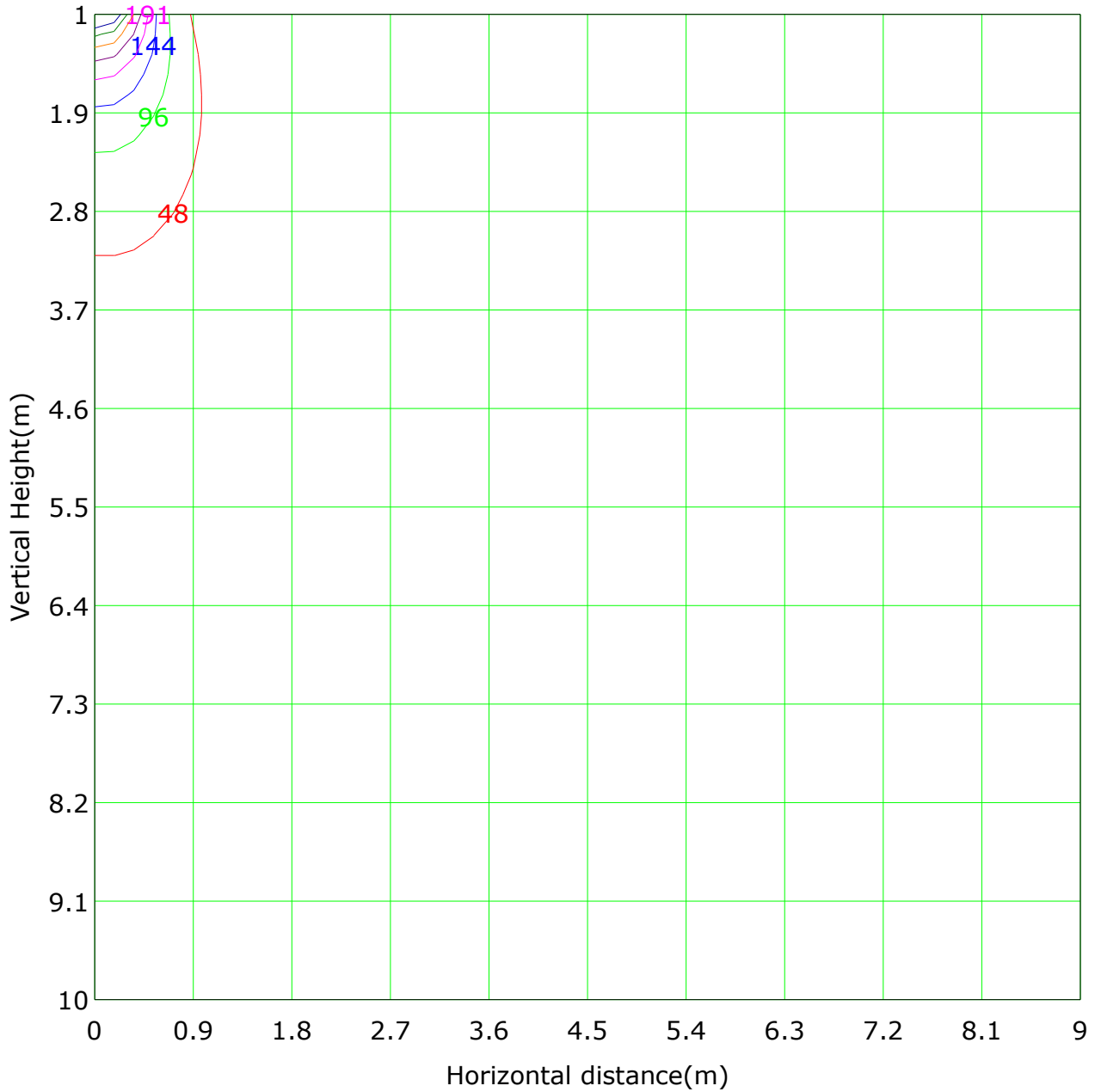
## Illuminance at a Distance



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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:

## Vertical IsoLux Plot



Lowest(m): 1.0m    Highest(m): 10.0m    Max Lux: 478.4 lx

( 10%): 47.8 lx	( 20%): 95.7 lx
( 30%): 143.5 lx	( 40%): 191.4 lx
( 50%): 239.2 lx	( 60%): 287.1 lx
( 70%): 334.9 lx	( 80%): 382.7 lx

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 Temperature: 26  
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 Test Device: GPM-1800B  
 Distance: 8.705 m [K=1.0000]  
 Humidity: 65  
 Inspector:

## Area Flux Table

Unit: lm

Vertical plane		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90		
		Flux(E)	Flux(T)	Flux(E)	Flux(T)	Flux(E)	Flux(T)	Flux(E)	Flux(T)	Flux(E)	Flux(T)	Flux(E)	Flux(T)	Flux(E)	Flux(T)	Flux(E)	Flux(T)	Flux(E)	Flux(T)	Flux(E)	Flux(E)	Flux(T)
-90	-90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-80	-80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-70	-70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-60	-60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-50	-50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-40	-40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-30	-30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-20	-20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-10	-10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50	50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60	60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70	70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80	80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90	90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Flux(E)	Flux(T)	0.0	0.2	0.9	3.0	7.6	17.0	35.0	59.3	77.9	79.7	64.0	41.0	22.2	10.8	4.5	1.5	0.3	0.0	0.0	425	373

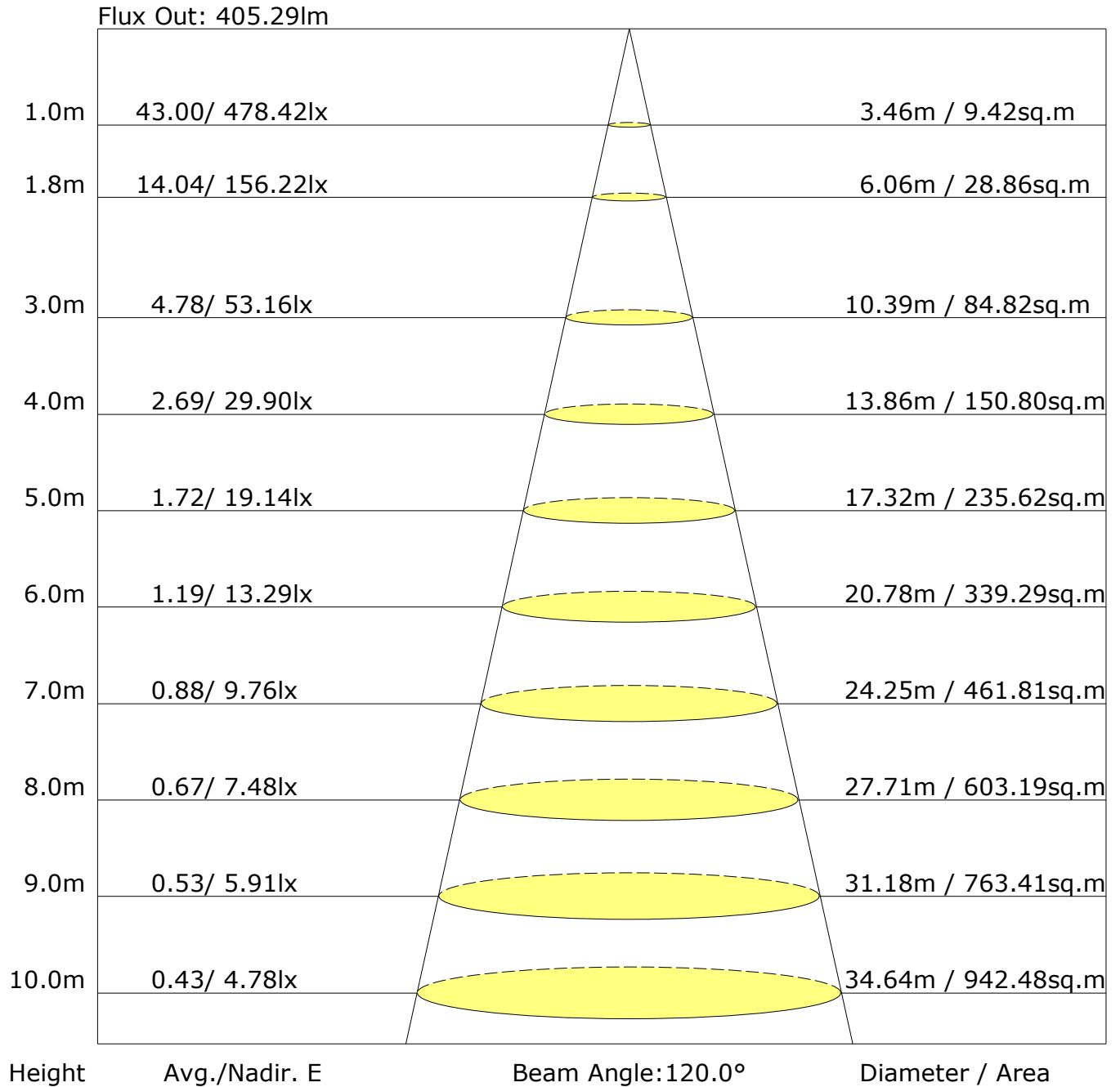
Horizontal plane

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## 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	24.2	25.2	24.4	25.4	25.6	25.9	26.8	26.1	27.1	27.3
3H	24.4	25.3	24.7	25.5	25.8	26.4	27.3	26.7	27.5	27.8
4H	24.4	25.3	24.7	25.5	25.8	26.6	27.4	26.9	27.7	28.0
6H	24.4	25.2	24.8	25.5	25.8	26.6	27.4	27.0	27.7	28.0
8H	24.4	25.1	24.7	25.4	25.8	26.6	27.4	27.0	27.7	28.0
12H	24.4	25.1	24.7	25.4	25.7	26.6	27.3	27.0	27.6	28.0
X=4H Y=2H	24.5	25.3	24.8	25.6	25.8	25.9	26.8	26.3	27.1	27.3
3H	24.8	25.5	25.1	25.8	26.1	26.6	27.3	27.0	27.6	28.0
4H	24.9	25.5	25.2	25.8	26.2	26.8	27.5	27.2	27.8	28.2
6H	24.9	25.5	25.3	25.8	26.2	27.0	27.5	27.4	27.9	28.3
8H	24.9	25.4	25.3	25.8	26.2	27.0	27.5	27.4	27.9	28.3
12H	24.9	25.3	25.3	25.7	26.2	26.9	27.4	27.4	27.8	28.3
X=8H Y=4H	24.9	25.4	25.3	25.8	26.2	26.8	27.3	27.2	27.7	28.1
6H	25.0	25.4	25.5	25.8	26.3	27.0	27.4	27.5	27.8	28.3
8H	25.0	25.4	25.5	25.8	26.3	27.0	27.4	27.5	27.8	28.3
12H	25.0	25.3	25.5	25.8	26.2	27.0	27.3	27.5	27.8	28.3
X=12H Y=4H	24.9	25.4	25.3	25.8	26.2	26.8	27.2	27.2	27.7	28.1
6H	25.0	25.3	25.5	25.8	26.3	27.0	27.3	27.4	27.8	28.3
8H	25.0	25.3	25.5	25.8	26.3	27.0	27.3	27.5	27.8	28.3
Variations with the observer position at spacings:										
S=1.0H	+0.9/-1.4					+1.0/-1.2				
S=1.5H	+2.1/-2.9					+1.6/-2.3				
S=2.0H	+3.3/-4.6					+2.1/-3.3				

Calculate in accordance with CIE Pub.117. The table is revised with  $425\text{lm}$  ( $8\log(F/F_0) = -3.0$ ).

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Inspector:

## Zonal Lumen

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	478.4	0.5	0.5	0.11	0.11
1.0-2.0	477.9	1.4	1.8	0.32	0.43
2.0-3.0	476.2	2.3	4.1	0.54	0.97
3.0-4.0	473.4	3.2	7.3	0.75	1.71
4.0-5.0	469.8	4.0	11.3	0.95	2.66
5.0-6.0	465.1	4.9	16.2	1.15	3.81
6.0-7.0	459.5	5.7	21.9	1.34	5.16
7.0-8.0	453.1	6.5	28.4	1.53	6.68
8.0-9.0	445.8	7.2	35.6	1.70	8.38
9.0-10.0	437.4	7.9	43.5	1.86	10.25
10.0-11.0	428.2	8.6	52.1	2.01	12.26
11.0-12.0	418.1	9.1	61.2	2.15	14.41
12.0-13.0	407.2	9.7	70.9	2.27	16.68
13.0-14.0	395.6	10.1	81.0	2.38	19.07
14.0-15.0	383.3	10.5	91.6	2.48	21.54
15.0-16.0	370.0	10.8	102.4	2.55	24.10
16.0-17.0	356.3	11.1	113.5	2.61	26.71
17.0-18.0	342.4	11.3	124.8	2.66	29.36
18.0-19.0	327.8	11.4	136.2	2.68	32.05
19.0-20.0	313.0	11.5	147.6	2.70	34.75
20.0-21.0	298.6	11.5	159.1	2.70	37.44
21.0-22.0	283.7	11.4	170.5	2.68	40.13
22.0-23.0	269.0	11.3	181.8	2.66	42.78
23.0-24.0	254.7	11.1	192.9	2.62	45.41
24.0-25.0	240.1	10.9	203.9	2.57	47.97
25.0-26.0	226.0	10.7	214.5	2.51	50.48
26.0-27.0	212.2	10.4	224.9	2.44	52.93
27.0-28.0	198.7	10.1	235.0	2.37	55.30
28.0-29.0	185.8	9.7	244.7	2.29	57.58
29.0-30.0	173.7	9.4	254.1	2.21	59.79
30.0-31.0	162.0	9.0	263.1	2.12	61.91
31.0-32.0	151.1	8.7	271.8	2.04	63.95
32.0-33.0	141.4	8.3	280.1	1.96	65.91
33.0-34.0	132.0	8.0	288.1	1.88	67.79
34.0-35.0	123.1	7.6	295.7	1.80	69.59
35.0-36.0	115.2	7.3	303.1	1.73	71.32

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## Zonal Lumen (Continue 1)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	107.8	7.0	310.1	1.65	72.97
37.0-38.0	100.7	6.7	316.8	1.58	74.55
38.0-39.0	94.3	6.4	323.2	1.51	76.07
39.0-40.0	88.4	6.2	329.4	1.45	77.52
40.0-41.0	82.8	5.9	335.3	1.39	78.91
41.0-42.0	77.5	5.6	340.9	1.32	80.23
42.0-43.0	72.5	5.4	346.3	1.26	81.50
43.0-44.0	67.9	5.1	351.4	1.21	82.70
44.0-45.0	63.6	4.9	356.3	1.15	83.85
45.0-46.0	59.5	4.7	361.0	1.09	84.95
46.0-47.0	55.7	4.4	365.4	1.04	85.99
47.0-48.0	52.1	4.2	369.6	0.99	86.98
48.0-49.0	48.6	4.0	373.6	0.94	87.92
49.0-50.0	45.4	3.8	377.4	0.89	88.81
50.0-51.0	42.4	3.6	381.0	0.85	89.66
51.0-52.0	39.6	3.4	384.4	0.80	90.46
52.0-53.0	36.8	3.2	387.6	0.75	91.21
53.0-54.0	34.3	3.0	390.6	0.71	91.92
54.0-55.0	32.0	2.9	393.5	0.67	92.59
55.0-56.0	29.6	2.7	396.2	0.63	93.23
56.0-57.0	27.5	2.5	398.7	0.59	93.82
57.0-58.0	25.5	2.4	401.0	0.55	94.37
58.0-59.0	23.6	2.2	403.2	0.52	94.89
59.0-60.0	21.8	2.1	405.3	0.48	95.38
60.0-61.0	20.1	1.9	407.2	0.45	95.83
61.0-62.0	18.5	1.8	409.0	0.42	96.25
62.0-63.0	17.0	1.7	410.6	0.39	96.64
63.0-64.0	15.6	1.5	412.2	0.36	97.00
64.0-65.0	14.3	1.4	413.6	0.33	97.33
65.0-66.0	13.0	1.3	414.9	0.31	97.63
66.0-67.0	11.9	1.2	416.1	0.28	97.91
67.0-68.0	10.8	1.1	417.2	0.26	98.17
68.0-69.0	9.7	1.0	418.2	0.23	98.40
69.0-70.0	8.8	0.9	419.1	0.21	98.62
70.0-71.0	7.9	0.8	419.9	0.19	98.81
71.0-72.0	7.2	0.7	420.6	0.18	98.99

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°): 356.33 lm

%lum = 83.9%

%lamp = 83.9%

cone flux(120°): 405.29 lm

%lum = 95.4%

%lamp = 95.4%

## Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	478.4	478.4	478.4	478.4	478.4					
G5.0	475.7	522.2	456.9	416.2	475.7					
G10.0	443.5	525.7	414.9	348.1	443.5					
G15.0	387.8	484.6	356.5	278.4	387.8					
G20.0	319.8	415.9	283.4	204.6	319.8					
G25.0	246.3	342.3	205.8	136.9	246.3					
G30.0	179.7	276.3	137.6	77.8	179.7					
G35.0	127.5	217.7	89.9	40.7	127.5					
G40.0	90.9	169.6	59.3	22.5	90.9					
G45.0	63.8	129.6	39.1	13.5	63.8					
G50.0	44.4	96.1	26.2	8.8	44.4					
G55.0	30.2	69.9	17.3	6.0	30.2					
G60.0	19.6	49.1	11.0	4.0	19.6					
G65.0	11.9	33.4	6.6	2.6	11.9					
G70.0	6.7	21.8	3.6	1.4	6.7					
G75.0	4.0	13.0	1.9	0.0	4.0					
G80.0	2.1	6.1	1.1	0.0	2.1					
G85.0	0.0	0.0	0.0	0.0	0.0					
G90.0	0.0	0.0	0.0	0.0	0.0					
G480.1	516.4	462.7	429.4	478.9	0.0					
G471.6	528.5	424.3	362.4	451.8	0.0					
G433.5	495.4	370.3	292.3	401.2	0.0					
G375.4	430.0	298.3	218.5	333.8	0.0					
G305.8	356.5	220.2	151.0	261.8	0.0					
G232.3	288.7	149.5	87.8	191.9	4.0					
G167.2	228.1	97.9	46.6	136.4	9.0					
G119.4	178.4	64.3	25.2	97.2	14.0					
G84.4	136.8	42.4	14.9	68.8	19.0					
G59.5	102.0	28.3	9.6	47.8	24.0					
G41.3	74.6	18.7	6.4	32.7	29.0					
G27.7	53.0	12.0	4.4	21.3	34.0					
G17.9	36.1	7.4	2.8	13.2	39.0					
G10.7	23.8	4.1	1.6	7.6	44.0					
G6.1	14.5	2.2	0.6	4.5	49.0					
G3.6	7.4	1.2	0.0	2.5	54.0					
G1.8	0.9	0.0	0.0	0.7	59.0					
G0.0	0.0	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 <sup>2</sup>
L 0-180(65) av	17449.42
L 0-180(75) av	9127.06
L 0-180(85) av	0.00
L 90-270(65) av	33870.74
L 90-270(75) av	20003.59
L 90-270(85) av	0.00
L 45(65) av	25660.08
L 45(75) av	14565.33
L 45(85) av	0.00

Standard: GB/T 29293-2012