

Report No.: TH-5715A

Test Time: 2025/9/28 16:12

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Lamp Catalog:

Number of Lamps:

Luminous Length (mm): -50

Luminous Height (mm):

Current: 0.045 A

Power Factor: 0.909

Luminaire Description: dlexi J5-8W

Lamp Description:

Lumens per Lamp:

Luminous Width (mm): -50

Voltage: 220.4 V

Power: 8.99 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 400.8 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H50.5

Vertical Diffuse Angle(50%): V58.7

Luminaire Efficacy Rating (LER): 44.63

Max. Intensity: 511.37 cd

S/MH(C0/C180): 0.76

Total Rated Lamp Lumens: 400.8 lm

Efficiency: 100%

Upward Ratio: 0%

C0r0 Intensity: 317.36 cd

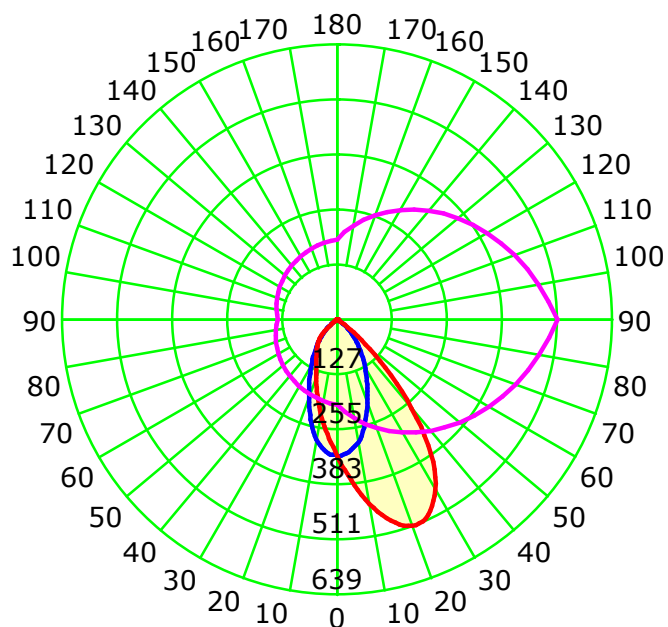
Pos of Max. Intensity: H90 V21

S/MH(C90/C270): 1.25

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 48.7°

— C0-C180 — C90-C270 — G21

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

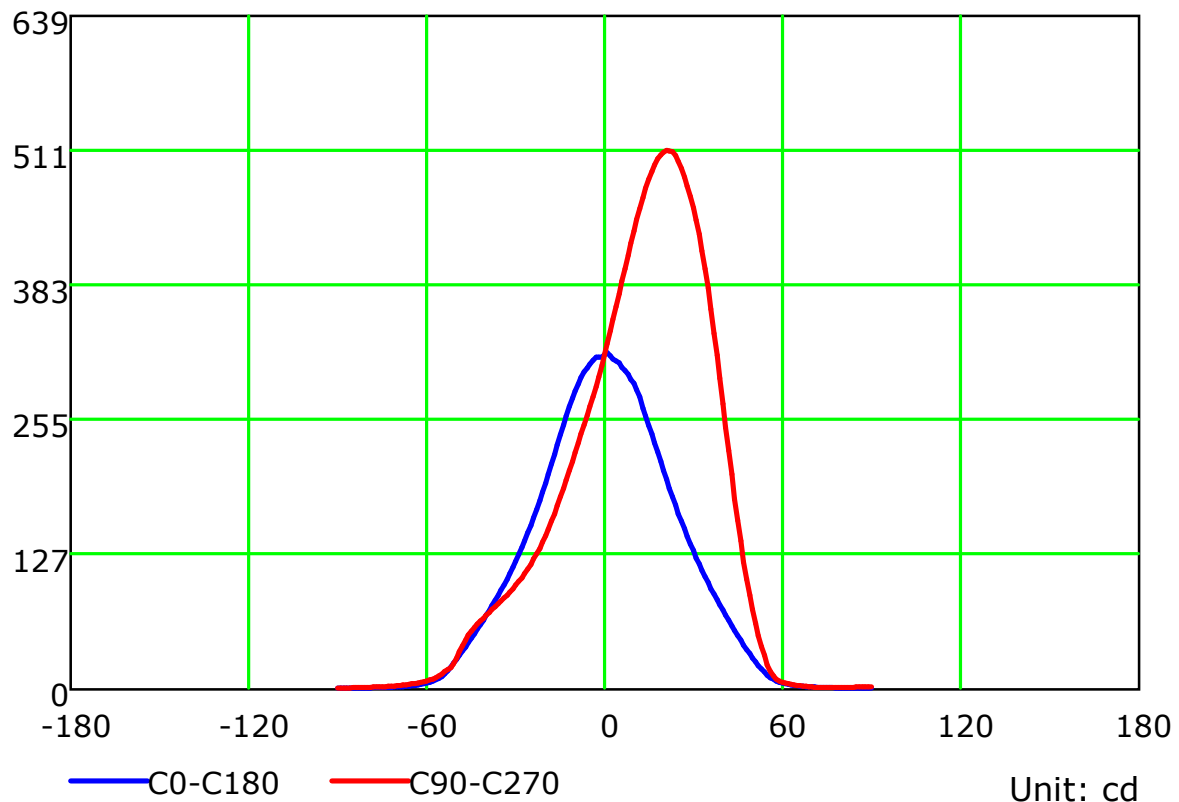
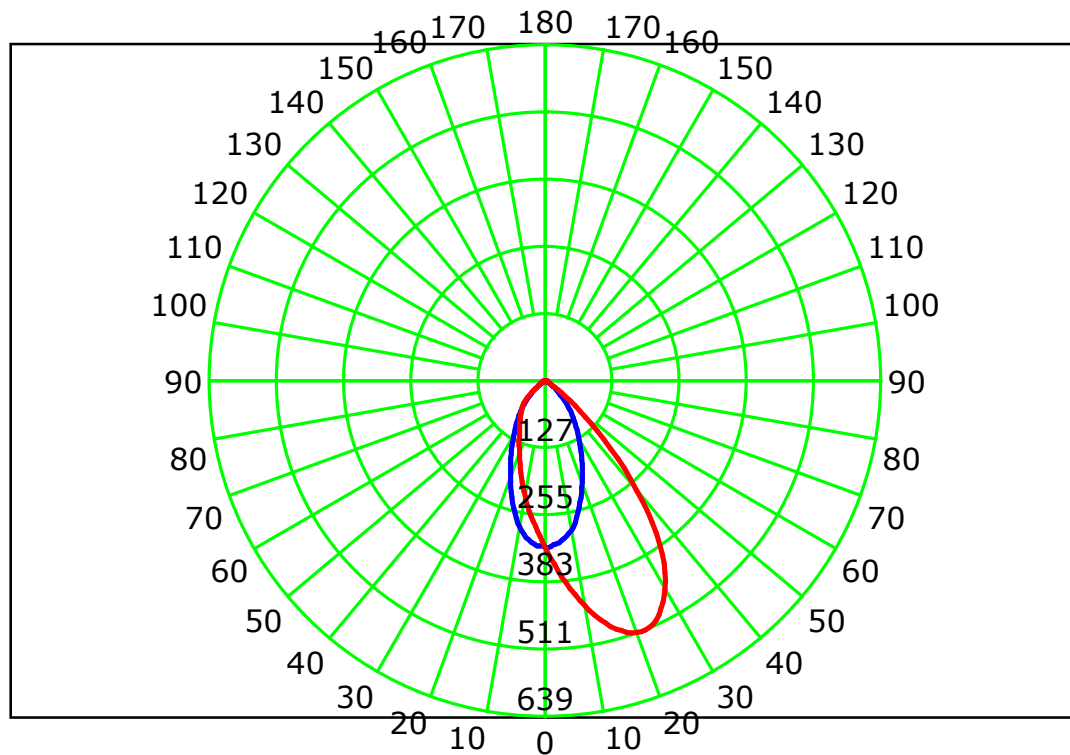
Test Device: GPM-1800B

Distance: 8.705 m [K=1.0000]

Humidity: 65

Inspector:

## Luminous Intensity Distribution Curve



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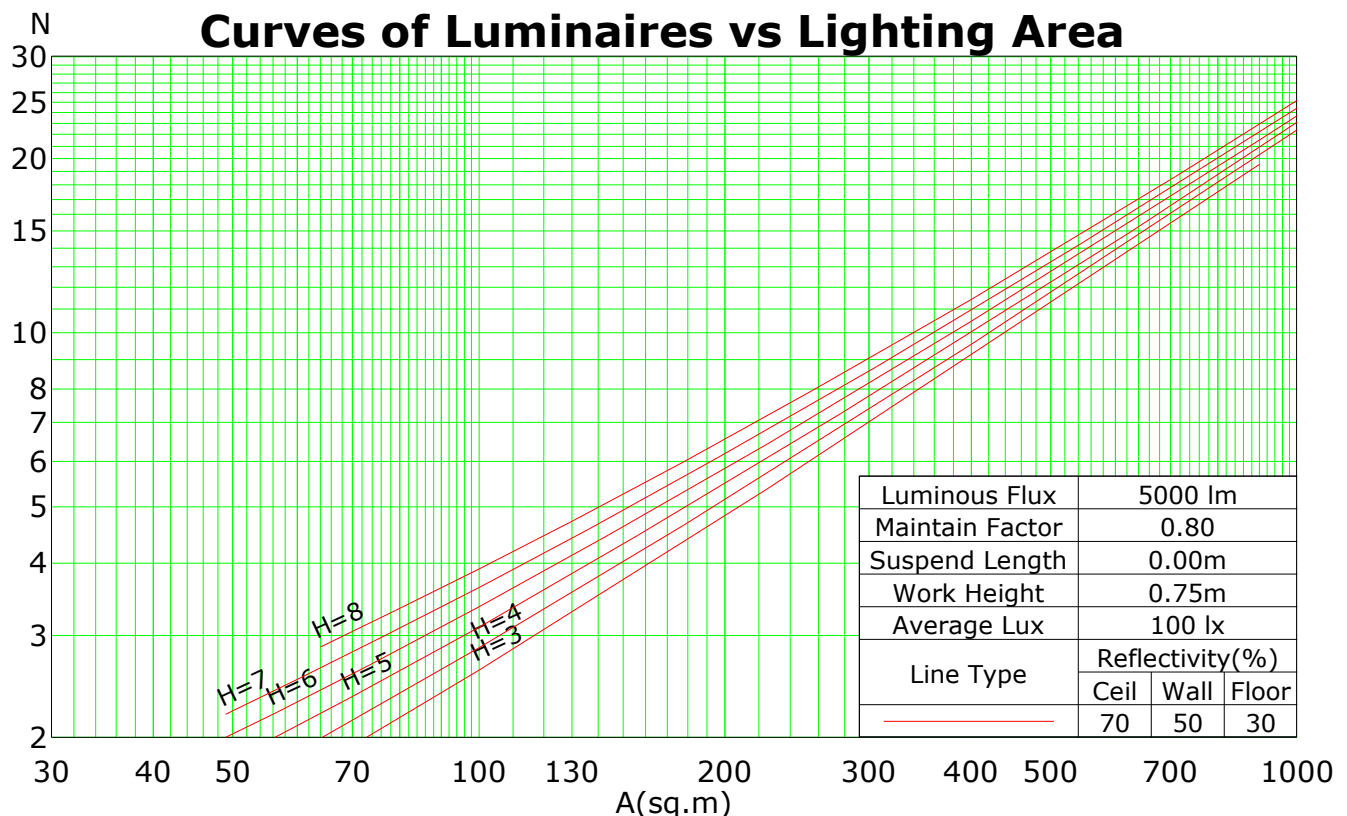
## Coefficients Of Utilization - Zonal Cavity Method

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	1.13	1.10	1.07	1.04	1.10	1.07	1.05	1.03	1.03	1.01	1.00	1.00	0.98	0.97	0.96	0.95	0.94	0.92
2	1.06	1.01	0.96	0.92	1.04	0.99	0.95	0.91	0.96	0.92	0.89	0.93	0.90	0.87	0.90	0.88	0.85	0.84
3	1.00	0.93	0.87	0.82	0.98	0.91	0.86	0.82	0.88	0.84	0.80	0.86	0.82	0.79	0.84	0.81	0.78	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	0.67	0.87	0.78	0.72	0.67	0.76	0.70	0.66	0.74	0.69	0.66	0.73	0.68	0.65	0.63
6	0.83	0.73	0.66	0.61	0.81	0.72	0.66	0.61	0.71	0.65	0.61	0.69	0.64	0.60	0.68	0.63	0.60	0.58
7	0.78	0.68	0.61	0.56	0.77	0.67	0.61	0.56	0.66	0.60	0.56	0.64	0.59	0.55	0.63	0.59	0.55	0.53
8	0.74	0.63	0.56	0.52	0.72	0.62	0.56	0.52	0.61	0.55	0.51	0.60	0.55	0.51	0.59	0.54	0.51	0.49
9	0.70	0.59	0.52	0.48	0.68	0.58	0.52	0.48	0.57	0.52	0.47	0.56	0.51	0.47	0.56	0.51	0.47	0.46
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): 0.76

Spacing Criteria (90-270): 1.25

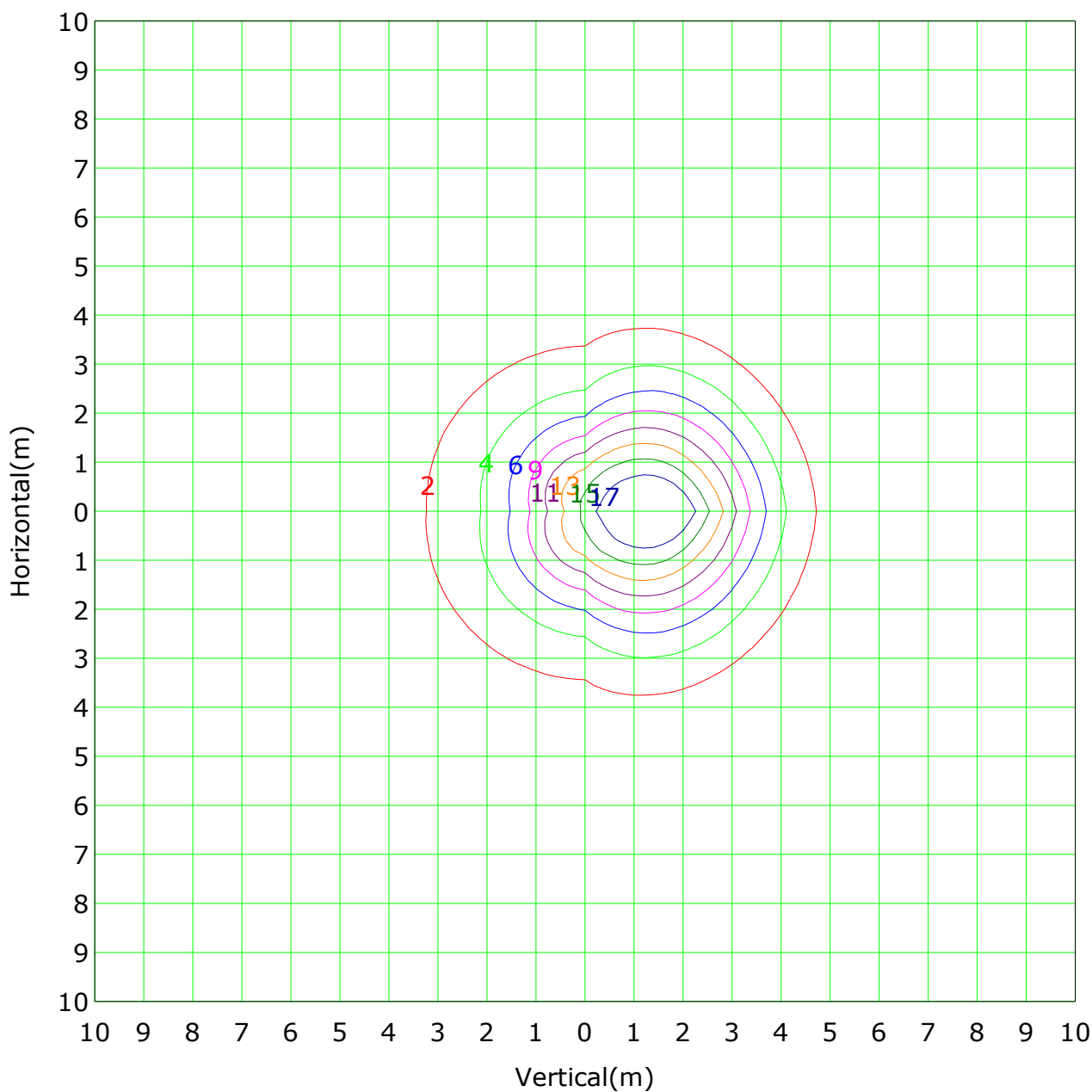
Spacing Criteria (Diagonal): 1.04



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

## IsoLux Plot



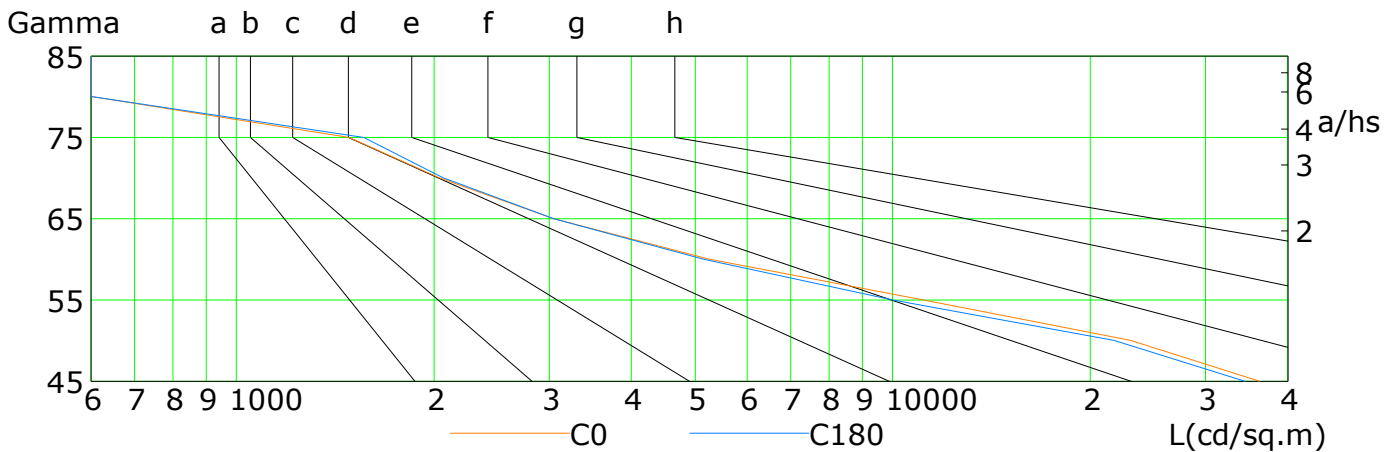
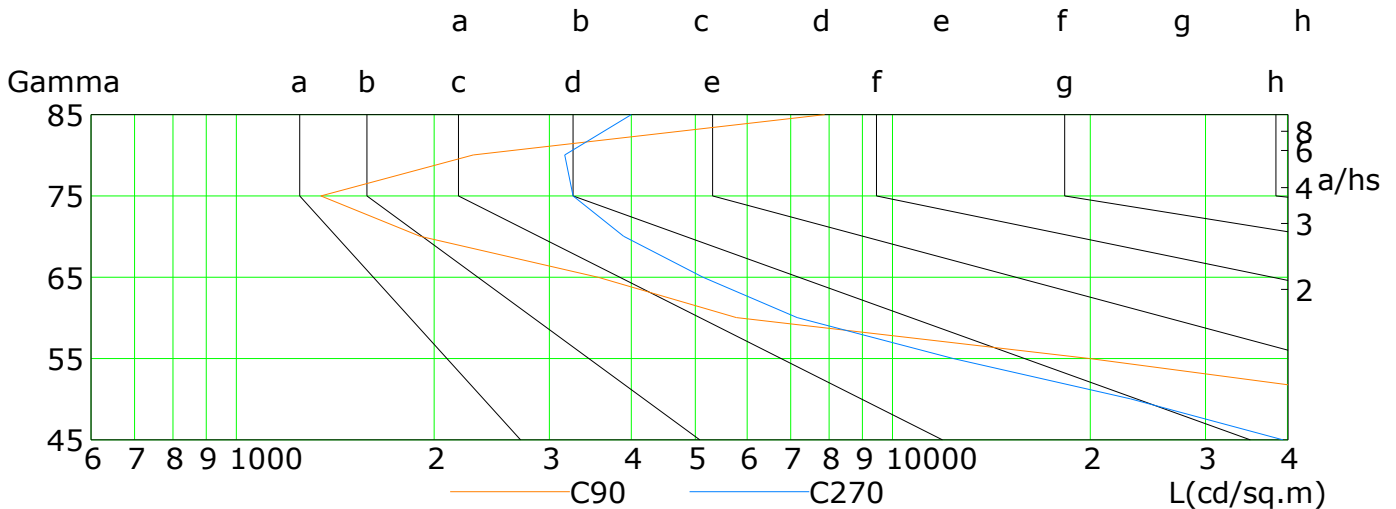
Mounting Height: 4.5m		Max Lux(100%): 21.6 lx	
( 10%):	2.2 lx	( 20%):	4.3 lx
( 30%):	6.5 lx	( 40%):	8.6 lx
( 50%):	10.8 lx	( 60%):	12.9 lx
( 70%):	15.1 lx	( 80%):	17.2 lx

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## 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

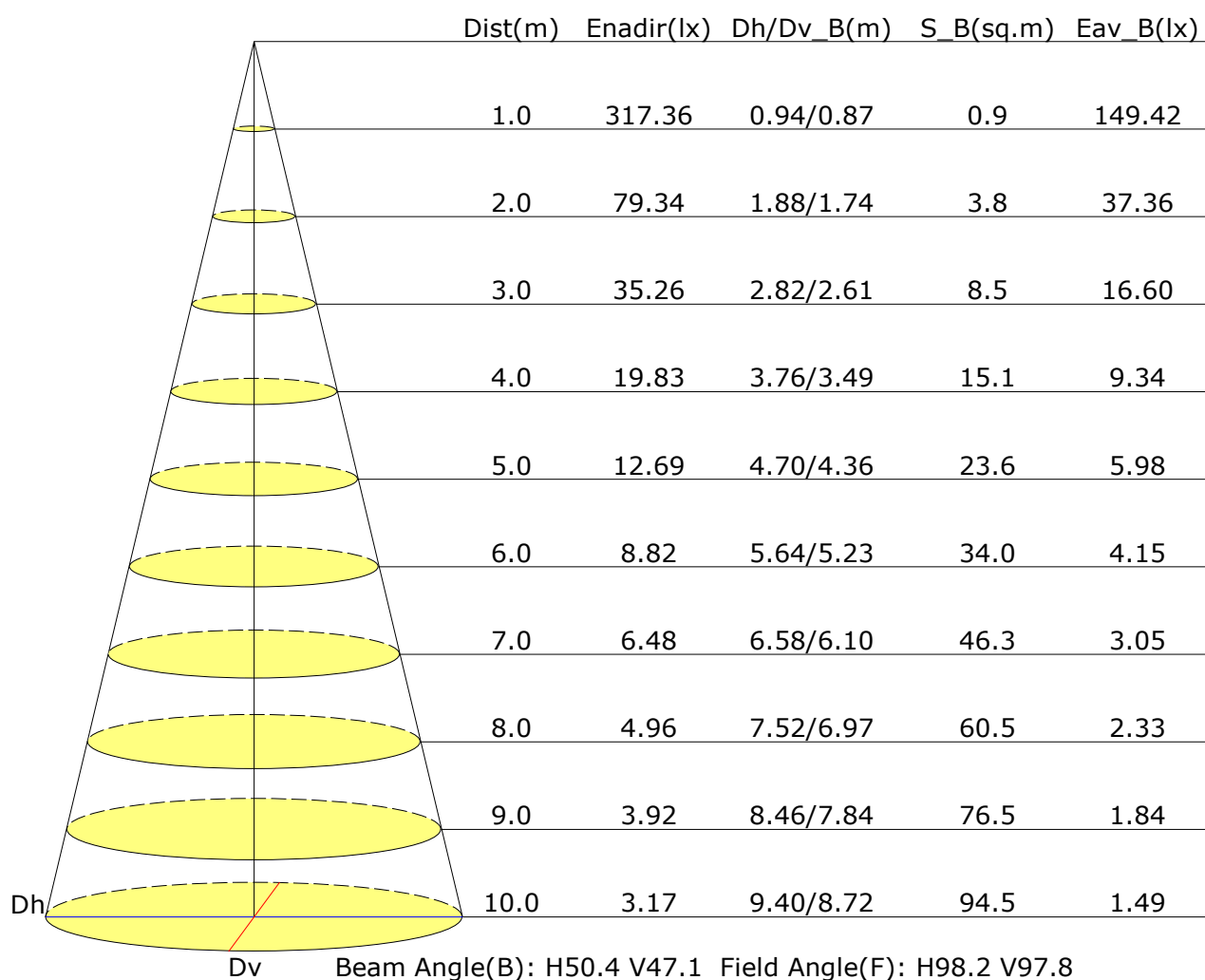


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	36283	23070	11158	5247	3043	2038	1485	0	0
C90	114964	59469	19956	5784	3559	1904	1345	2296	7875
C180	34443	21747	10023	5145	3043	2067	1564	0	0
C270	39363	23060	12380	7147	5147	3896	3256	3168	3996

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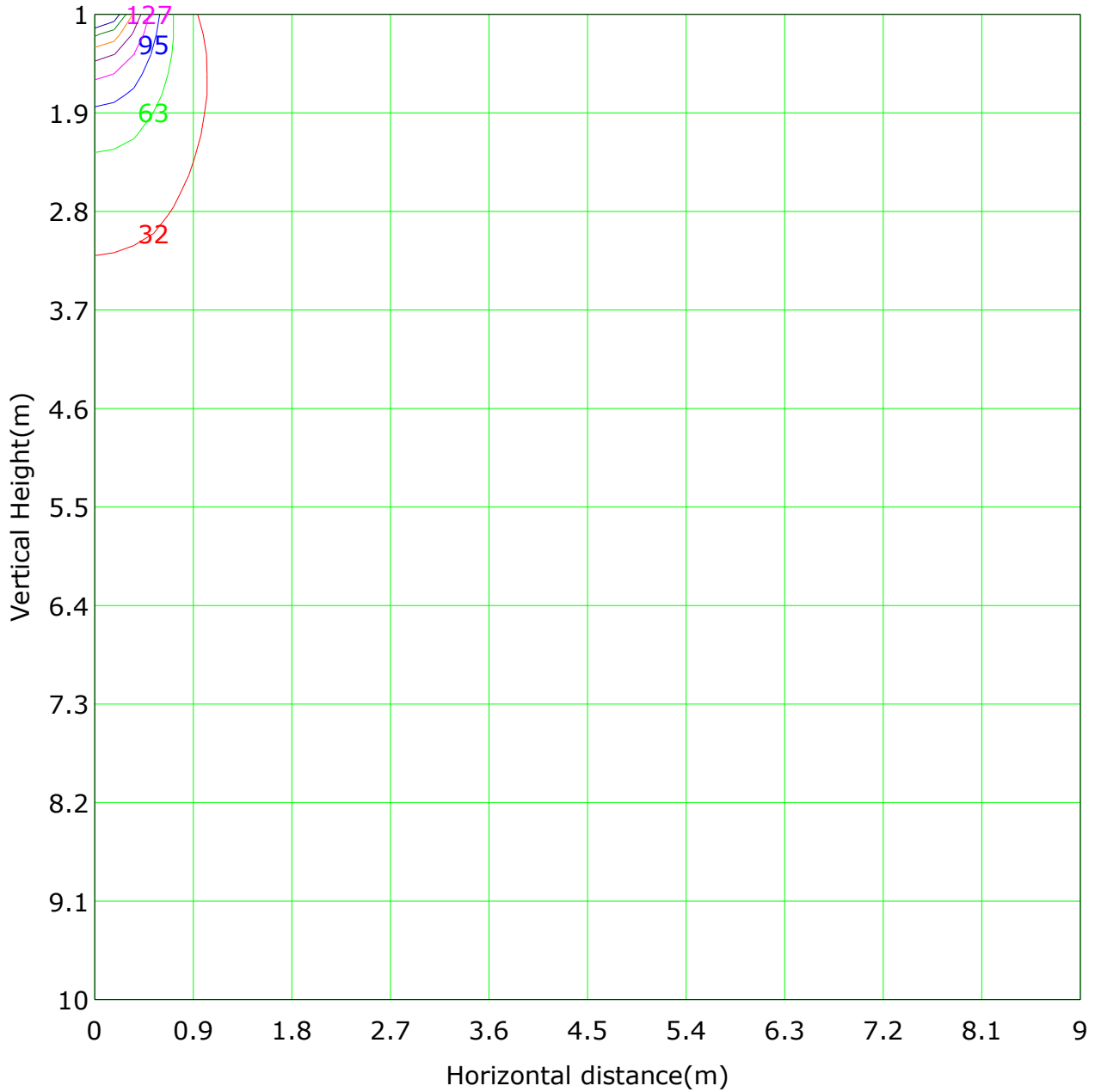
## Illuminance at a Distance



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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: 317.4 lx
( 10%): 31.7 lx	( 20%): 63.5 lx	( 40%): 126.9 lx
( 30%): 95.2 lx	( 60%): 190.4 lx	( 80%): 253.9 lx
( 50%): 158.7 lx		
( 70%): 222.2 lx		

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 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

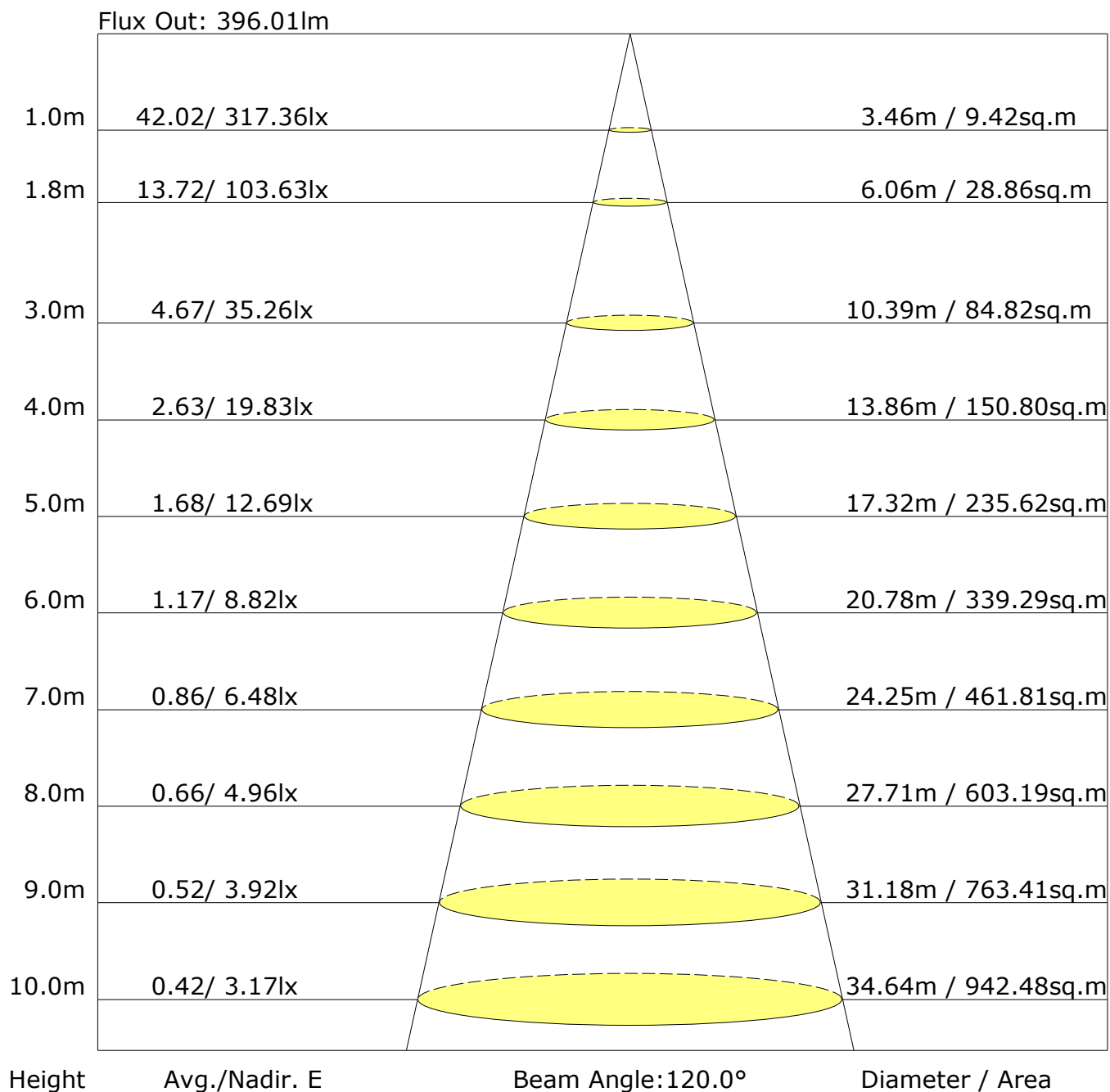
Unit: lm																					
Horizontal plane																					
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	F <sub>0</sub> lux(T)	F <sub>0</sub> lux(E)
Vertical plane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
-90	0.0	0.0	0.0	0.0	0.0	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	0.4	0.0
-80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-70	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0
-60	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.4	0.4	0.4	0.1	0.1	0.0	0.0	0.0	0.0	0.0	2.5	0.0
-50	0.0	0.0	0.0	0.0	0.1	0.4	0.8	1.3	1.5	1.6	1.3	0.8	0.2	0.1	0.1	0.0	0.0	0.0	0.0	8.4	3.3
-40	0.0	0.0	0.0	0.1	0.3	0.9	1.7	2.3	2.5	2.5	2.3	1.8	0.4	0.1	0.0	0.0	0.0	0.0	0.0	15.9	13.2
-30	0.0	0.0	0.0	0.1	0.6	1.5	2.5	3.3	3.7	3.7	3.4	2.6	1.6	0.6	0.1	0.0	0.0	0.0	0.0	23.8	21.9
-20	0.0	0.0	0.0	0.2	0.9	2.0	3.3	4.8	5.6	5.7	5.0	3.5	2.1	0.9	0.2	0.0	0.0	0.0	0.0	34.3	32.6
-10	0.0	0.0	0.0	0.2	1.0	2.3	4.1	6.5	8.2	8.2	6.7	4.3	2.4	1.1	0.2	0.0	0.0	0.0	0.0	45.4	43.9
0	0.0	0.0	0.0	0.2	1.2	2.9	5.3	8.3	10.6	10.7	8.5	5.6	3.0	1.2	0.3	0.0	0.0	0.0	0.0	57.8	56.5
10	0.0	0.0	0.0	0.2	1.2	3.4	6.5	10.1	13.2	13.2	10.2	6.7	3.5	1.2	0.2	0.0	0.0	0.0	0.0	69.7	68.5
20	0.0	0.0	0.0	0.1	0.9	2.9	6.3	10.1	13.6	13.6	10.2	6.4	3.0	0.9	0.1	0.0	0.0	0.0	0.0	68.2	66.9
30	0.0	0.0	0.0	0.1	0.4	1.7	4.2	7.4	10.3	10.3	7.5	4.3	1.8	0.4	0.1	0.0	0.0	0.0	0.0	48.6	47.0
40	0.0	0.0	0.0	0.1	0.1	0.6	1.6	3.1	4.5	4.5	3.2	1.6	0.6	0.1	0.0	0.0	0.0	0.0	0.0	20.1	17.7
50	0.0	0.0	0.0	0.1	0.1	0.1	0.3	0.5	0.8	0.8	0.5	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	3.6	0.6
60	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0
70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
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	0.3	0.0
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
F <sub>0</sub> lux(T)	0.0	0.1	0.3	1.5	7.0	19.0	37.0	58.2	75.3	75.7	59.4	38.3	19.7	7.2	1.6	0.3	0.1	0.0	0.0	401	
F <sub>0</sub> lux(E)	0.0	0.0	0.0	0.0	2.8	16.5	34.9	56.3	73.5	73.9	57.5	36.2	17.3	3.2	0.0	0.0	0.0	0.0	0.0	372	

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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	21.3	22.3	21.5	22.5	22.7	24.4	25.4	24.7	25.7	25.9
3H	21.1	22.0	21.4	22.3	22.5	24.3	25.2	24.6	25.5	25.7
4H	21.1	21.9	21.4	22.2	22.4	24.2	25.1	24.6	25.3	25.6
6H	21.0	21.8	21.3	22.0	22.3	24.2	24.9	24.5	25.2	25.5
8H	21.0	21.7	21.3	22.0	22.3	24.1	24.9	24.5	25.2	25.5
12H	20.9	21.6	21.3	21.9	22.3	24.1	24.8	24.5	25.1	25.5
X=4H Y=2H	21.1	21.9	21.4	22.2	22.5	24.2	25.1	24.6	25.3	25.6
3H	21.0	21.7	21.3	22.0	22.3	24.1	24.8	24.5	25.1	25.5
4H	20.9	21.5	21.3	21.9	22.2	24.0	24.7	24.4	25.0	25.4
6H	20.8	21.4	21.2	21.8	22.1	24.0	24.5	24.4	24.9	25.3
8H	20.8	21.3	21.2	21.7	22.1	23.9	24.4	24.4	24.8	25.2
12H	20.8	21.2	21.2	21.6	22.1	23.9	24.4	24.4	24.8	25.2
X=8H Y=4H	20.8	21.3	21.2	21.7	22.1	23.9	24.4	24.4	24.8	25.2
6H	20.7	21.1	21.2	21.6	22.0	23.9	24.3	24.3	24.7	25.1
8H	20.7	21.0	21.2	21.5	22.0	23.8	24.2	24.3	24.6	25.1
12H	20.6	21.0	21.1	21.4	21.9	23.8	24.1	24.3	24.6	25.1
X=12H Y=4H	20.8	21.2	21.2	21.6	22.1	23.9	24.3	24.3	24.7	25.2
6H	20.7	21.0	21.2	21.5	22.0	23.8	24.2	24.3	24.6	25.1
8H	20.7	21.0	21.1	21.4	21.9	23.8	24.1	24.3	24.6	25.1
Variations with the observer position at spacings:										
S=1.0H	+3.1/-6.6					+2.7/-5.7				
S=1.5H	+4.8/-11.8					+3.0/-7.5				
S=2.0H	+6.6/-14.1					+5.2/-8.8				

Calculate in accordance with CIE Pub.117. The table is revised with 401lm ( $8\log(F/F_0) = -3.2$ ).

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## 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	317.3	0.3	0.3	0.08	0.08
1.0-2.0	317.1	0.9	1.2	0.23	0.30
2.0-3.0	316.7	1.5	2.7	0.38	0.68
3.0-4.0	316.2	2.1	4.8	0.53	1.21
4.0-5.0	315.6	2.7	7.6	0.68	1.89
5.0-6.0	314.8	3.3	10.9	0.83	2.71
6.0-7.0	313.7	3.9	14.8	0.97	3.68
7.0-8.0	312.5	4.5	19.2	1.12	4.80
8.0-9.0	310.9	5.0	24.3	1.26	6.06
9.0-10.0	309.0	5.6	29.9	1.40	7.45
10.0-11.0	306.7	6.1	36.0	1.53	8.98
11.0-12.0	303.7	6.6	42.6	1.66	10.64
12.0-13.0	299.8	7.1	49.8	1.78	12.41
13.0-14.0	295.6	7.6	57.3	1.89	14.30
14.0-15.0	291.6	8.0	65.3	2.00	16.30
15.0-16.0	287.0	8.4	73.7	2.10	18.40
16.0-17.0	282.2	8.8	82.5	2.19	20.59
17.0-18.0	277.5	9.2	91.7	2.28	22.87
18.0-19.0	272.3	9.5	101.2	2.36	25.24
19.0-20.0	266.9	9.8	110.9	2.44	27.68
20.0-21.0	261.6	10.0	121.0	2.51	30.18
21.0-22.0	256.1	10.3	131.3	2.57	32.75
22.0-23.0	250.4	10.5	141.8	2.62	35.37
23.0-24.0	244.6	10.7	152.5	2.67	38.04
24.0-25.0	238.4	10.8	163.3	2.71	40.75
25.0-26.0	232.0	11.0	174.3	2.73	43.48
26.0-27.0	225.4	11.0	185.3	2.75	46.23
27.0-28.0	218.7	11.1	196.4	2.76	49.00
28.0-29.0	212.0	11.1	207.5	2.77	51.76
29.0-30.0	205.2	11.1	218.5	2.76	54.53
30.0-31.0	198.3	11.0	229.6	2.75	57.28
31.0-32.0	191.4	11.0	240.5	2.74	60.02
32.0-33.0	184.1	10.8	251.4	2.71	62.72
33.0-34.0	176.3	10.7	262.1	2.66	65.39
34.0-35.0	168.5	10.5	272.5	2.61	68.00
35.0-36.0	160.3	10.2	282.7	2.55	70.55

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 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 <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	151.7	9.9	292.6	2.47	73.02
37.0-38.0	143.0	9.5	302.2	2.38	75.40
38.0-39.0	134.5	9.2	311.4	2.29	77.69
39.0-40.0	125.6	8.8	320.1	2.19	79.87
40.0-41.0	116.7	8.3	328.4	2.07	81.95
41.0-42.0	108.1	7.9	336.3	1.96	83.91
42.0-43.0	99.5	7.4	343.7	1.84	85.75
43.0-44.0	90.7	6.8	350.5	1.71	87.46
44.0-45.0	82.2	6.3	356.8	1.58	89.03
45.0-46.0	74.1	5.8	362.6	1.45	90.48
46.0-47.0	65.9	5.2	367.9	1.31	91.79
47.0-48.0	57.9	4.7	372.6	1.17	92.95
48.0-49.0	50.6	4.2	376.7	1.04	93.99
49.0-50.0	43.6	3.6	380.3	0.91	94.90
50.0-51.0	36.9	3.1	383.5	0.78	95.68
51.0-52.0	30.8	2.6	386.1	0.66	96.33
52.0-53.0	25.7	2.2	388.3	0.56	96.89
53.0-54.0	21.2	1.9	390.2	0.47	97.36
54.0-55.0	17.1	1.5	391.7	0.38	97.74
55.0-56.0	13.5	1.2	392.9	0.31	98.04
56.0-57.0	10.8	1.0	393.9	0.25	98.29
57.0-58.0	8.8	0.8	394.7	0.20	98.49
58.0-59.0	7.3	0.7	395.4	0.17	98.66
59.0-60.0	6.2	0.6	396.0	0.15	98.81
60.0-61.0	5.4	0.5	396.5	0.13	98.94
61.0-62.0	4.7	0.5	397.0	0.11	99.05
62.0-63.0	4.2	0.4	397.4	0.10	99.15
63.0-64.0	3.7	0.4	397.7	0.09	99.24
64.0-65.0	3.3	0.3	398.1	0.08	99.32
65.0-66.0	2.9	0.3	398.4	0.07	99.39
66.0-67.0	2.6	0.3	398.6	0.06	99.46
67.0-68.0	2.3	0.2	398.8	0.06	99.52
68.0-69.0	2.0	0.2	399.1	0.05	99.57
69.0-70.0	1.8	0.2	399.2	0.05	99.61
70.0-71.0	1.6	0.2	399.4	0.04	99.65
71.0-72.0	1.4	0.1	399.5	0.04	99.69

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°): 356.83 lm

%lum = 89.0%

%lamp = 89.0%

cone flux(120°): 396.01 lm

%lum = 98.8%

%lamp = 98.8%

## Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	317.4	317.4	317.4	317.4	317.4					
G5.0	309.5	375.6	308.1	268.0	309.5					
G10.0	290.0	435.2	283.0	224.2	290.0					
G15.0	250.1	484.3	241.5	182.1	250.1					
G20.0	207.1	510.1	195.1	145.0	207.1					
G25.0	166.0	501.6	155.1	118.0	166.0					
G30.0	130.9	457.1	120.8	98.0	130.9					
G35.0	100.8	380.9	93.2	83.3	100.8					
G40.0	74.3	270.6	69.8	69.5	74.3					
G45.0	50.4	159.6	47.8	54.7	50.4					
G50.0	29.1	75.1	27.4	29.1	29.1					
G55.0	12.6	22.5	11.3	13.9	12.6					
G60.0	5.2	5.7	5.1	7.0	5.2					
G65.0	2.5	3.0	2.5	4.3	2.5					
G70.0	1.4	1.3	1.4	2.6	1.4					
G75.0	0.8	0.7	0.8	1.7	0.8					
G80.0	0.0	0.8	0.0	1.1	0.0					
G85.0	0.0	1.3	0.0	0.7	0.0					
G90.0	0.0	1.6	0.0	0.0	0.0					
G319.0	362.9	311.9	277.5	311.5	0.0					
G305.5	423.3	289.2	233.5	293.7	0.0					
G284.1	475.4	250.4	190.1	258.9	0.0					
G241.7	507.4	203.7	151.4	215.6	0.0					
G198.8	506.7	162.4	123.0	174.4	0.0					
G159.2	467.6	127.6	101.7	137.4	4.0					
G124.2	399.3	98.3	86.0	106.4	9.0					
G94.8	294.7	74.2	72.4	79.6	14.0					
G69.4	180.2	51.9	58.0	54.9	19.0					
G45.9	88.5	31.5	34.8	33.1	24.0					
G25.1	31.1	13.7	16.0	15.5	29.0					
G10.3	6.7	5.8	8.0	6.1	34.0					
G4.5	3.4	2.9	4.7	2.9	39.0					
G2.2	1.5	1.6	2.9	1.6	44.0					
G1.2	0.7	0.9	1.8	0.9	49.0					
G0.7	0.7	0.6	1.2	0.0	54.0					
G0.0	1.2	0.0	0.7	0.0	59.0					
G0.0	1.6	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:

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	3043.28
L 0-180(75) av	1524.44
L 0-180(85) av	0.00
L 90-270(65) av	4352.91
L 90-270(75) av	2301.00
L 90-270(85) av	5935.52
L 45(65) av	3698.10
L 45(75) av	1912.72
L 45(85) av	2967.76

Standard: GB/T 29293-2012