

Tel:
Fax:

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Report No.:

Test Time: 2017-07-29 16:31

Luminaire Property

Luminaire Manufacturer:
Luminaire Category: LED DownLight
Lamp Catalog: 3000k
Luminous Length (mm): 130
Voltage: 219.7 V
Power: 25.10 W

Luminaire Description: DLC0525-B830 50D
Lamp Description: T1204C430M2
Luminous Width (mm): 130
Current: 0.118 A
Power Factor: 0.967

Photometric Results

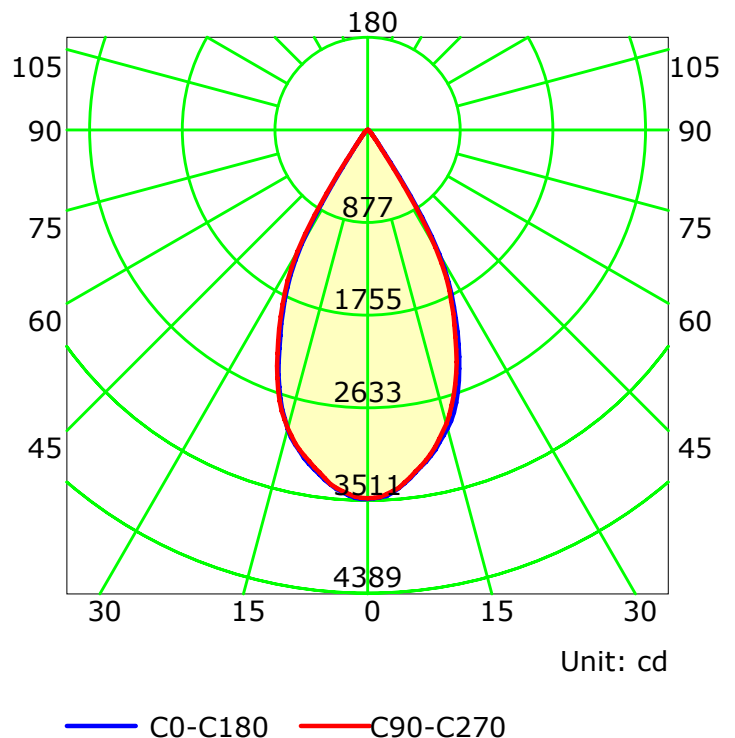
CIE Class: Direct
Measurement Flux: 2366.3 lm
Downward Ratio: 100%
Field Angle: H69.9 V69.7
Luminaire Efficacy Rating (LER): 94
Max. Intensity: 3497.4 cd

Total Rated Lamp Lumens: 2366.3 lm
Efficiency: 100%
Upward Ratio: 0%
Beam Angle: H53.4 V53.5
Central Intensity: 3496.44 cd
Pos of Max. Intensity: H180 V1

Picture Of Luminaire



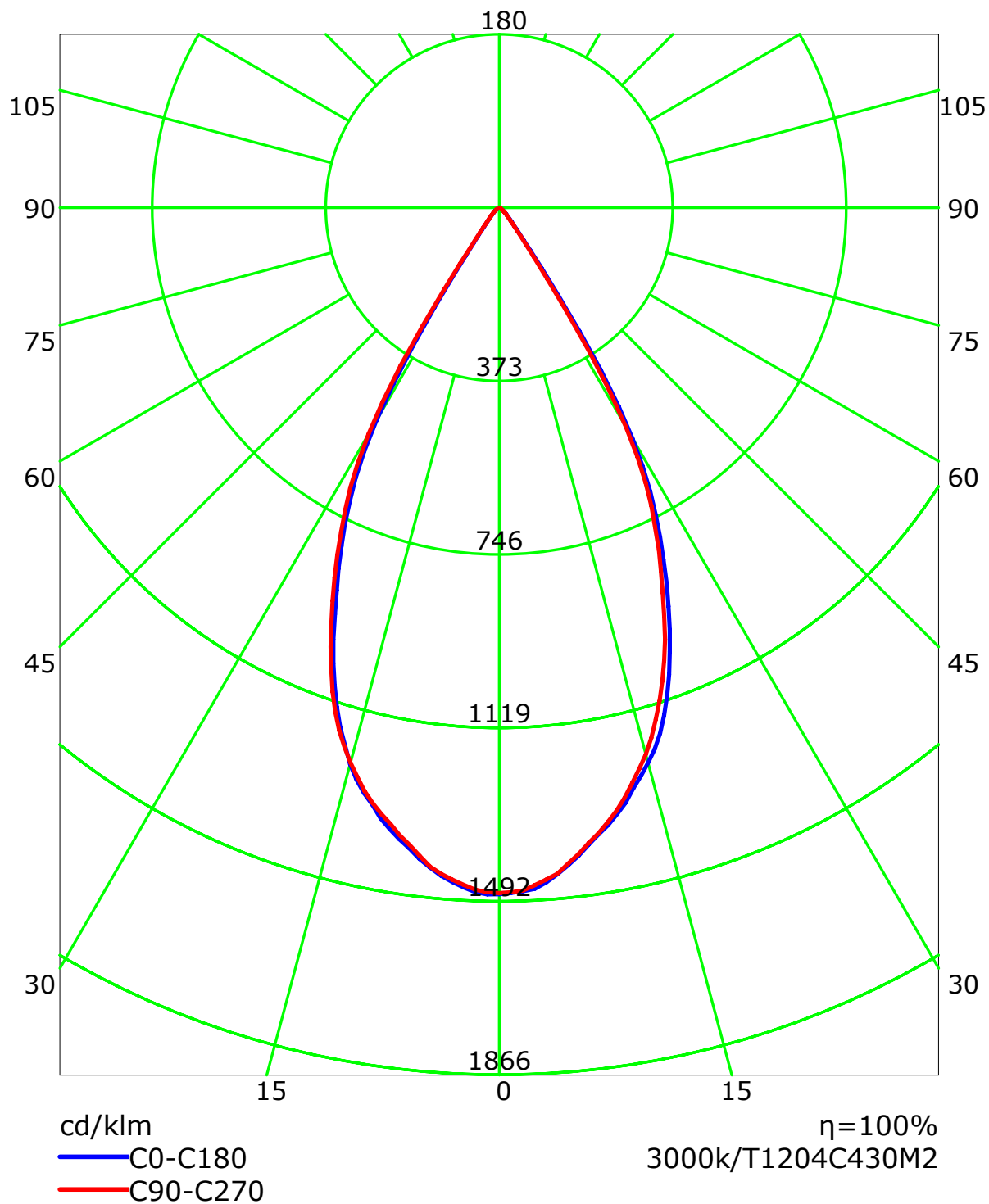
Luminous Intensity Distribution Curve



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

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.990 m
Humidity:
Inspector:

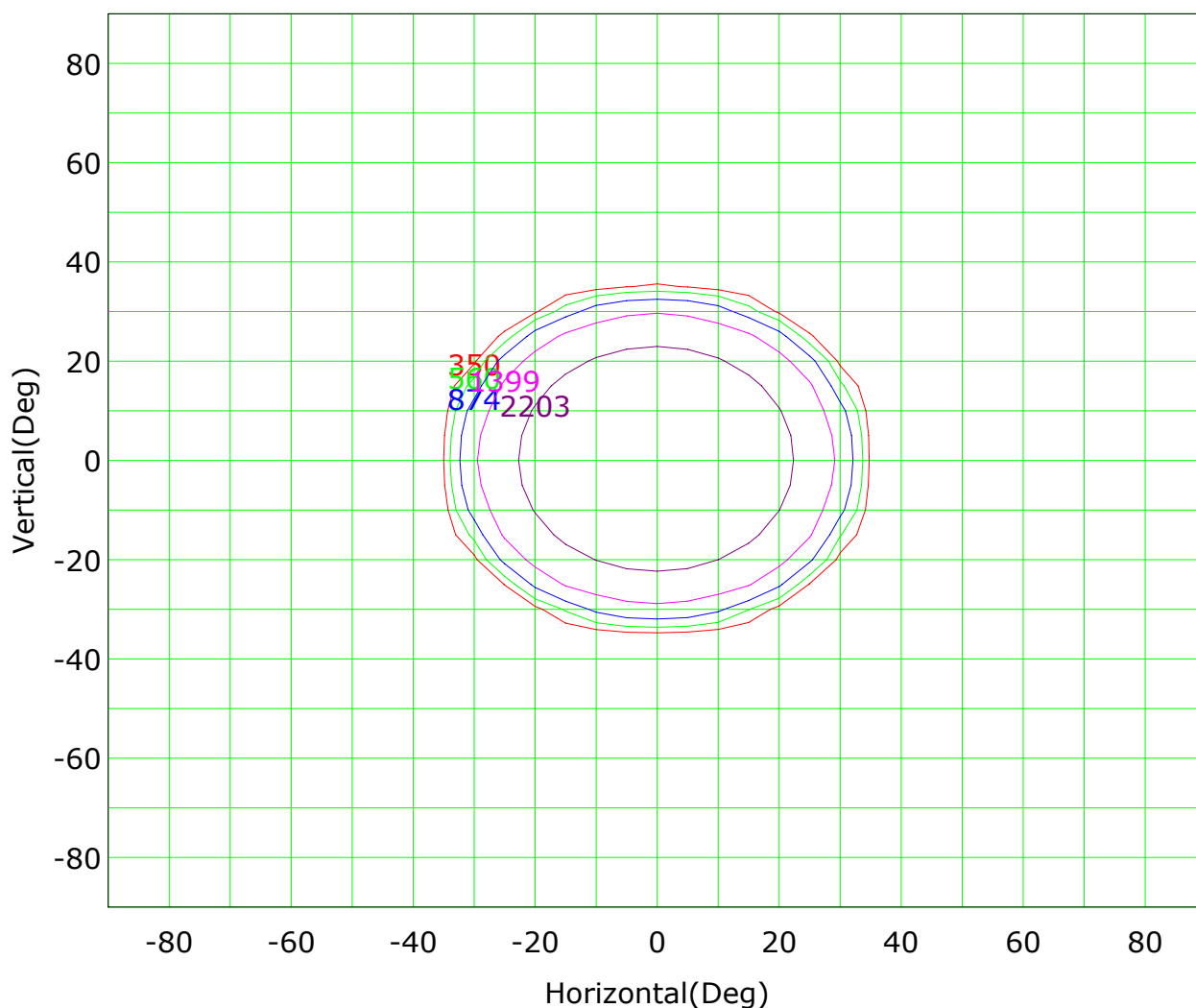
Luminous Intensity Distribution Curve(cd/klm)



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

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.990 m
Humidity:
Inspector:

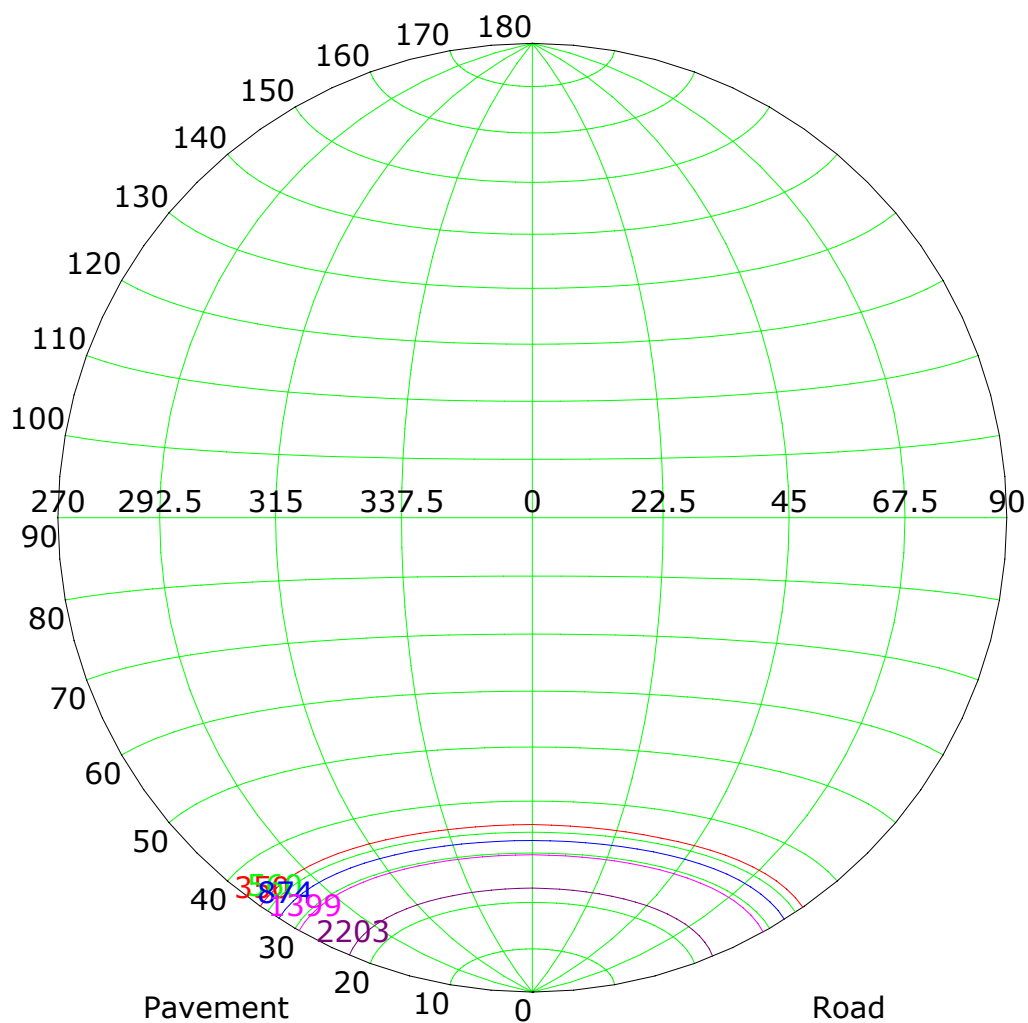
Isocandela (rectangle)



Imax (100%): 3497 cd

(10%): 350 cd	(16%): 560 cd
(25%): 874 cd	(40%): 1399 cd
(63%): 2203 cd	(100%): 3497 cd

Isocandela (sphere)

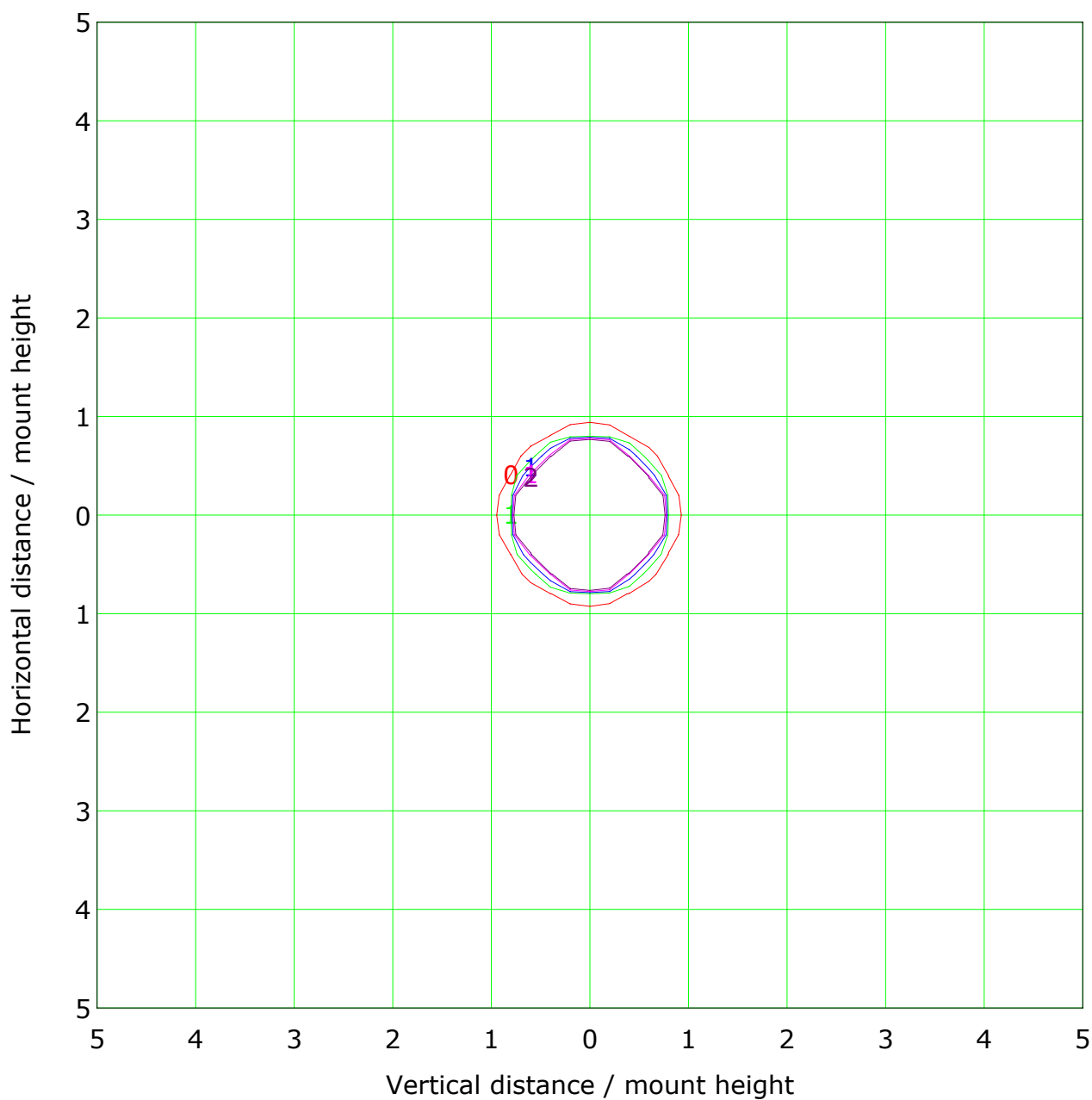


Imax (100%): 3497 cd

(10%): 350 cd
(25%): 874 cd
(63%): 2203 cd

(16%): 560 cd
(40%): 1399 cd
(100%): 3497 cd

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 35.0 lx

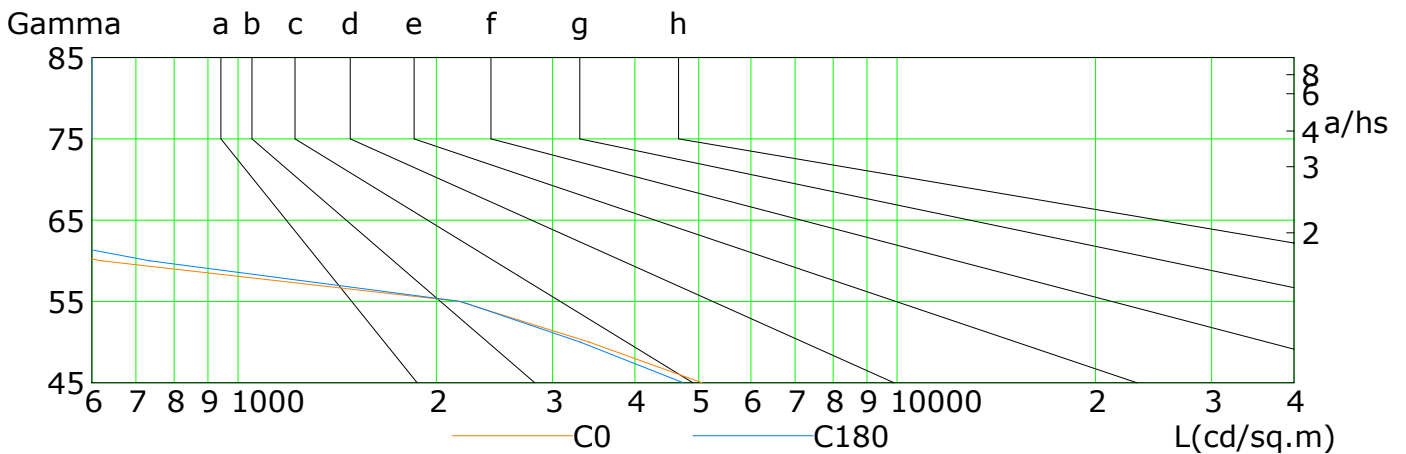
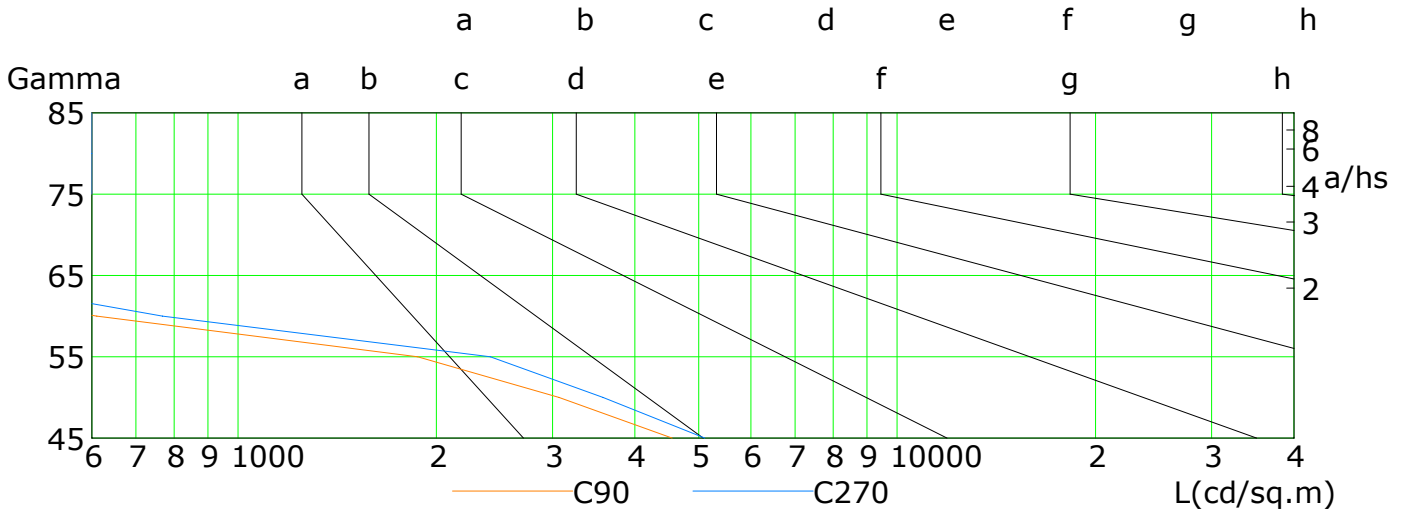
(1%): 0.3 lx	(2%): 0.7 lx
(3%): 1.0 lx	(4%): 1.4 lx
(5%): 1.7 lx	

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

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.990 m
Humidity:
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	5059	3411	2167	621	281	83	0	0	0
C90	4556	3068	1872	611	267	66	0	0	0
C180	4739	3306	2178	735	347	116	0	0	0
C270	5107	3578	2414	768	347	116	0	0	0

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 7.990 m

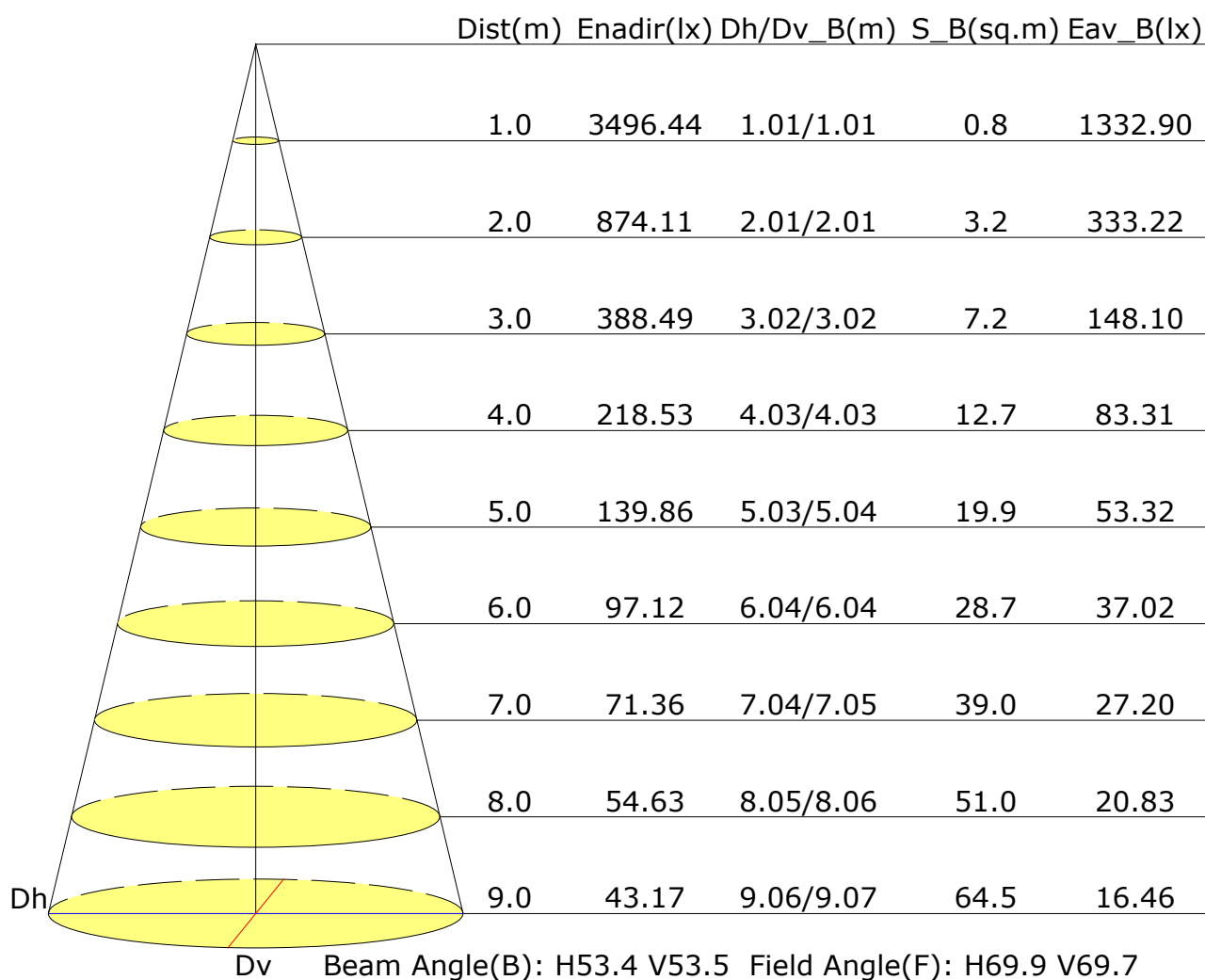
Humidity:

Inspector:

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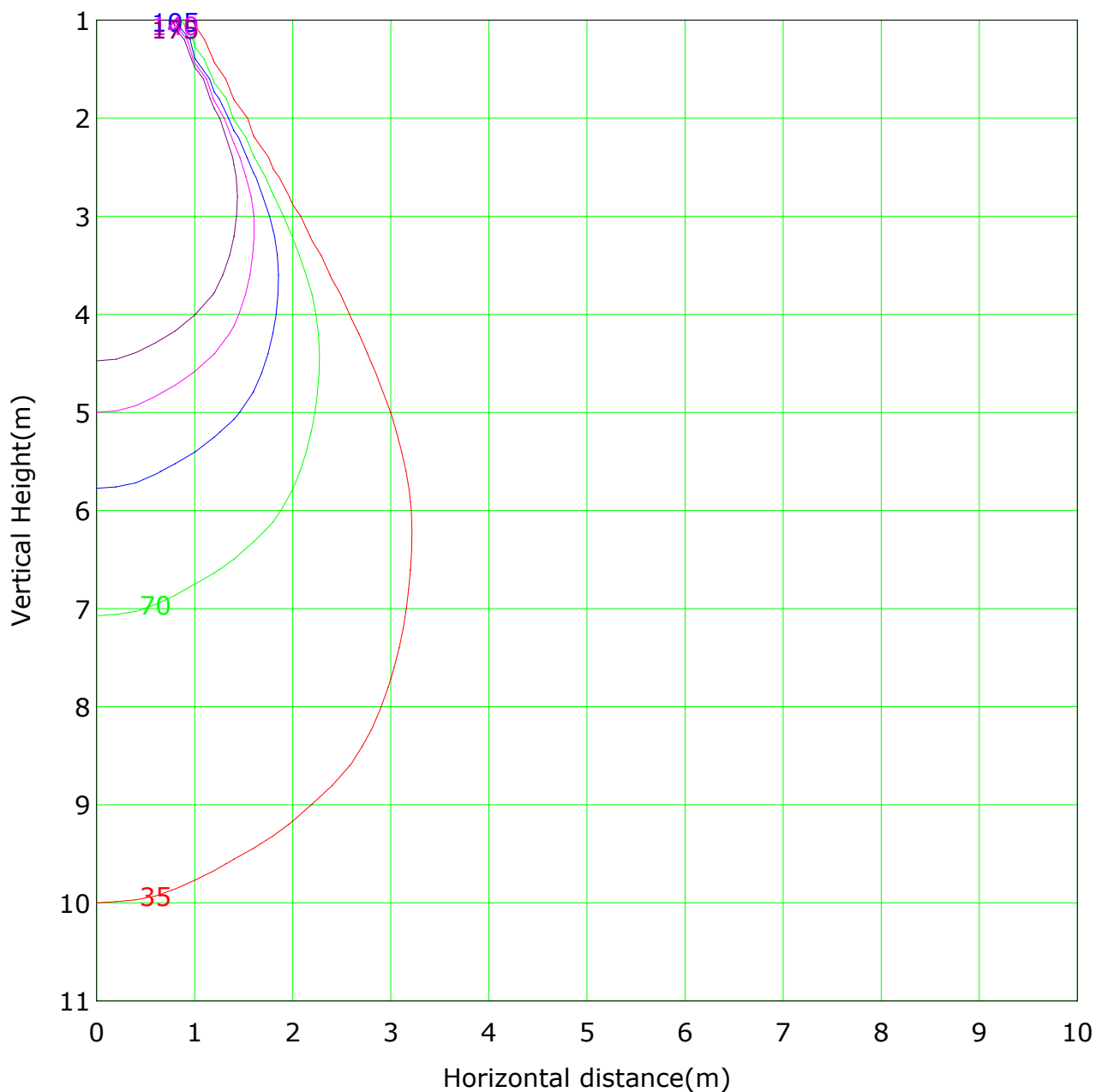
Illuminance at a Distance



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

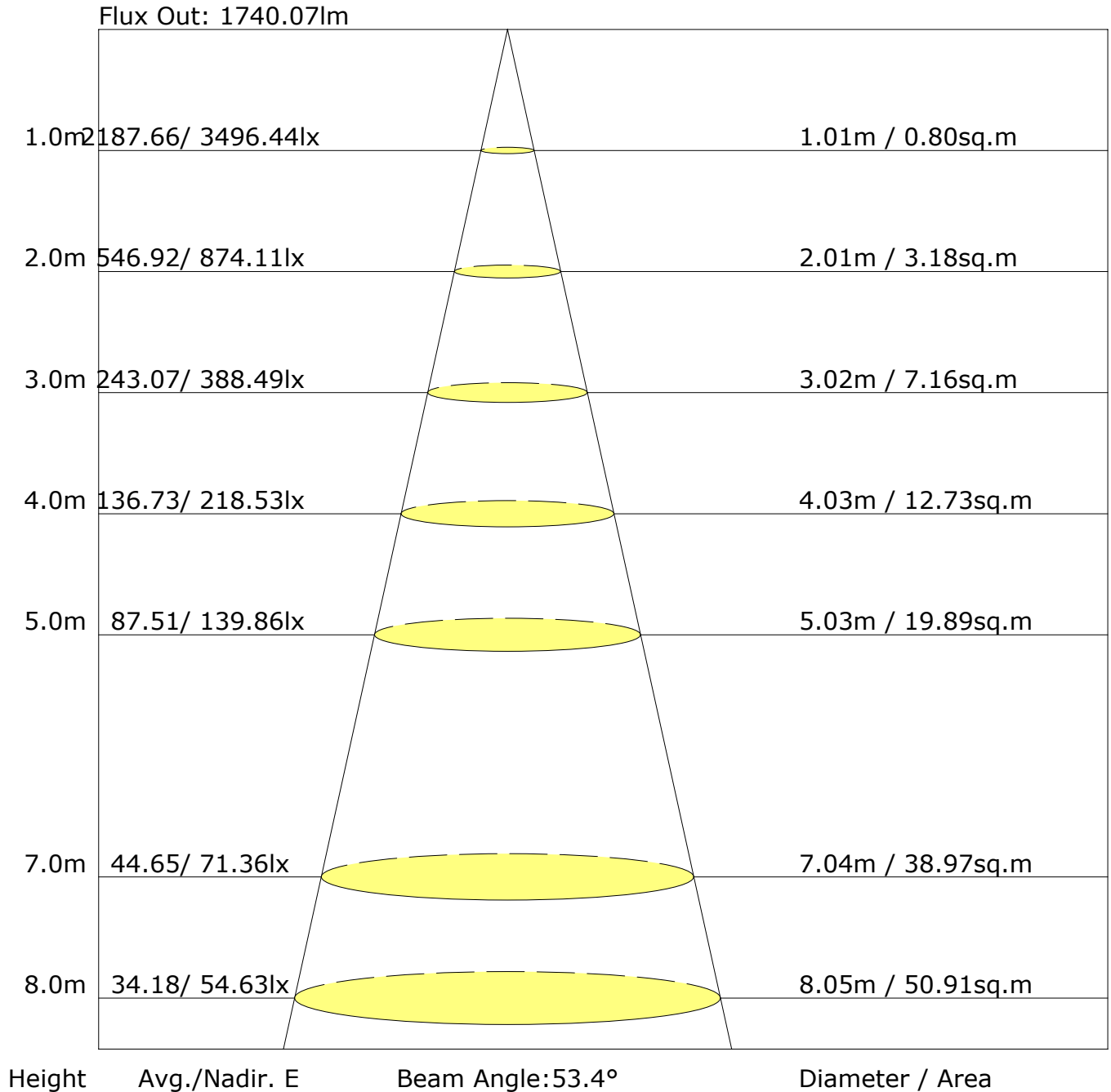
Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.990 m
Humidity:
Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 3496.4 lx
— (1%): 35.0 lx — (2%): 69.9 lx
— (3%): 104.9 lx — (4%): 139.9 lx
— (5%): 174.8 lx

The Average Illuminance Effective Figure



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	-0.4	0.6	0.0	0.9	1.2	-1.5	-0.6	-1.2	-0.3	0.0	
3H	-0.6	0.3	-0.2	0.6	1.0	-1.7	-0.9	-1.3	-0.6	-0.2	
4H	-0.7	0.1	-0.3	0.4	0.8	-1.8	-1.1	-1.4	-0.7	-0.3	
6H	-0.8	-0.1	-0.4	0.3	0.7	-1.9	-1.3	-1.5	-0.9	-0.5	
8H	-0.8	-0.2	-0.4	0.2	0.6	-2.0	-1.4	-1.6	-1.0	-0.6	
12H	-0.9	-0.3	-0.5	0.1	0.5	-2.1	-1.5	-1.6	-1.1	-0.6	
X=4H Y=2H	-0.6	0.1	-0.2	0.5	0.8	-1.8	-1.0	-1.4	-0.7	-0.3	
3H	-0.8	-0.2	-0.4	0.2	0.6	-2.0	-1.4	-1.6	-1.0	-0.6	
4H	-1.0	-0.4	-0.5	-0.0	0.4	-2.1	-1.6	-1.7	-1.1	-0.7	
6H	-1.1	-0.6	-0.6	-0.2	0.3	-2.2	-1.8	-1.8	-1.3	-0.8	
8H	-1.2	-0.7	-0.7	-0.3	0.2	-2.3	-1.9	-1.8	-1.4	-0.9	
12H	-1.2	-0.9	-0.7	-0.4	0.1	-2.4	-2.0	-1.9	-1.5	-1.0	
X=8H Y=4H	-1.2	-0.7	-0.7	-0.3	0.2	-2.3	-1.9	-1.8	-1.4	-0.9	
6H	-1.3	-1.0	-0.8	-0.5	0.0	-2.4	-2.1	-1.9	-1.6	-1.1	
8H	-1.4	-1.1	-0.8	-0.5	-0.0	-2.5	-2.2	-2.0	-1.7	-1.2	
12H	-1.4	-1.2	-0.9	-0.7	-0.1	-2.6	-2.3	-2.0	-1.8	-1.2	
X=12H Y=4H	-1.2	-0.9	-0.7	-0.4	0.1	-2.4	-2.0	-1.9	-1.5	-1.0	
6H	-1.4	-1.1	-0.8	-0.6	-0.0	-2.5	-2.2	-2.0	-1.7	-1.2	
8H	-1.4	-1.2	-0.9	-0.7	-0.1	-2.6	-2.3	-2.0	-1.8	-1.2	

Calculate in accordance with CIE 190:2010

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

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.990 m
Humidity:
Inspector:

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Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	3491.8	3.3	3.3	0.14	0.14
1.0-2.0	3485.9	10.0	13.3	0.42	0.56
2.0-3.0	3471.9	16.6	30.0	0.70	1.27
3.0-4.0	3449.4	23.1	53.0	0.98	2.24
4.0-5.0	3422.3	29.4	82.5	1.24	3.49
5.0-6.0	3388.6	35.6	118.1	1.51	4.99
6.0-7.0	3348.0	41.6	159.7	1.76	6.75
7.0-8.0	3302.7	47.3	206.9	2.00	8.75
8.0-9.0	3258.1	52.8	259.8	2.23	10.98
9.0-10.0	3215.1	58.2	317.9	2.46	13.44
10.0-11.0	3169.8	63.3	381.3	2.68	16.11
11.0-12.0	3120.6	68.2	449.5	2.88	19.00
12.0-13.0	3066.0	72.8	522.3	3.08	22.07
13.0-14.0	3008.6	77.0	599.3	3.25	25.33
14.0-15.0	2948.5	81.0	680.3	3.42	28.75
15.0-16.0	2882.0	84.5	764.7	3.57	32.32
16.0-17.0	2808.2	87.5	852.2	3.70	36.01
17.0-18.0	2726.8	89.9	942.1	3.80	39.81
18.0-19.0	2636.7	91.7	1033.9	3.88	43.69
19.0-20.0	2539.2	92.9	1126.8	3.93	47.62
20.0-21.0	2435.5	93.5	1220.3	3.95	51.57
21.0-22.0	2325.5	93.5	1313.8	3.95	55.52
22.0-23.0	2212.6	92.9	1406.7	3.92	59.45
23.0-24.0	2102.7	91.9	1498.6	3.89	63.33
24.0-25.0	1993.7	90.7	1589.3	3.83	67.16
25.0-26.0	1882.5	88.9	1678.1	3.76	70.92
26.0-27.0	1771.1	86.7	1764.8	3.66	74.58
27.0-28.0	1657.9	84.0	1848.7	3.55	78.13
28.0-29.0	1532.3	80.2	1928.9	3.39	81.52
29.0-30.0	1385.5	74.8	2003.7	3.16	84.68
30.0-31.0	1212.7	67.5	2071.2	2.85	87.53
31.0-32.0	1012.3	58.0	2129.2	2.45	89.98
32.0-33.0	790.3	46.6	2175.8	1.97	91.95
33.0-34.0	575.7	34.8	2210.6	1.47	93.42
34.0-35.0	404.8	25.1	2235.8	1.06	94.48
35.0-36.0	288.3	18.4	2254.1	0.78	95.26

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 7.990 m

Humidity:

Inspector:

Tel:
Fax:

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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	216.8	14.1	2268.3	0.60	95.86
37.0-38.0	172.7	11.5	2279.8	0.49	96.35
38.0-39.0	141.7	9.7	2289.5	0.41	96.75
39.0-40.0	118.3	8.3	2297.7	0.35	97.10
40.0-41.0	100.4	7.2	2304.9	0.30	97.41
41.0-42.0	86.8	6.3	2311.2	0.27	97.67
42.0-43.0	76.4	5.7	2316.9	0.24	97.91
43.0-44.0	68.1	5.1	2322.0	0.22	98.13
44.0-45.0	61.3	4.7	2326.7	0.20	98.33
45.0-46.0	55.5	4.3	2331.1	0.18	98.51
46.0-47.0	50.5	4.0	2335.1	0.17	98.68
47.0-48.0	45.9	3.7	2338.8	0.16	98.84
48.0-49.0	41.8	3.4	2342.2	0.15	98.98
49.0-50.0	38.1	3.2	2345.4	0.13	99.12
50.0-51.0	34.5	2.9	2348.3	0.12	99.24
51.0-52.0	31.2	2.7	2351.0	0.11	99.35
52.0-53.0	28.0	2.4	2353.4	0.10	99.46
53.0-54.0	25.0	2.2	2355.6	0.09	99.55
54.0-55.0	22.3	2.0	2357.6	0.08	99.63
55.0-56.0	19.6	1.8	2359.4	0.07	99.71
56.0-57.0	16.9	1.5	2360.9	0.07	99.77
57.0-58.0	13.8	1.3	2362.2	0.05	99.83
58.0-59.0	9.7	0.9	2363.1	0.04	99.87
59.0-60.0	6.5	0.6	2363.7	0.03	99.89
60.0-61.0	5.3	0.5	2364.2	0.02	99.91
61.0-62.0	4.4	0.4	2364.7	0.02	99.93
62.0-63.0	3.6	0.4	2365.0	0.01	99.95
63.0-64.0	3.0	0.3	2365.3	0.01	99.96
64.0-65.0	2.5	0.2	2365.6	0.01	99.97
65.0-66.0	2.0	0.2	2365.8	0.01	99.98
66.0-67.0	1.6	0.2	2365.9	0.01	99.98
67.0-68.0	1.2	0.1	2366.0	0.01	99.99
68.0-69.0	0.9	0.1	2366.1	0.00	99.99
69.0-70.0	0.7	0.1	2366.2	0.00	100.00
70.0-71.0	0.5	0.0	2366.2	0.00	100.00
71.0-72.0	0.3	0.0	2366.3	0.00	100.00

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 7.990 m

Humidity:

Inspector:

Fax:

Zonal Lumen (Continue 2)

[illegible]

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 7.990 m

Humidity:

Inspector:

Tel:
Fax:

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Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	3496.4	3490.3	3496.4	3490.3	3496.4					
G1.0	3490.3	3486.9	3497.4	3486.4	3490.3					
G2.0	3483.2	3479.5	3487.9	3475.7	3483.2					
G3.0	3473.0	3455.3	3466.6	3453.8	3473.0					
G4.0	3443.9	3429.8	3441.9	3430.9	3443.9					
G5.0	3407.2	3404.6	3414.6	3405.5	3407.2					
G6.0	3365.7	3358.4	3379.0	3374.1	3365.7					
G7.0	3324.0	3316.2	3341.1	3325.6	3324.0					
G8.0	3275.3	3267.3	3295.1	3277.3	3275.3					
G9.0	3231.2	3226.1	3256.0	3236.6	3231.2					
G10.0	3192.2	3178.4	3213.2	3187.3	3192.2					
G11.0	3145.5	3128.4	3167.8	3145.8	3145.5					
G12.0	3097.4	3071.3	3108.4	3100.0	3097.4					
G13.0	3034.6	3007.5	3060.0	3049.2	3034.6					
G14.0	2982.6	2945.0	3002.6	2987.4	2982.6					
G15.0	2927.1	2882.6	2934.5	2926.3	2927.1					
G16.0	2869.7	2809.4	2848.5	2858.0	2869.7					
G17.0	2799.6	2724.9	2769.4	2786.0	2799.6					
G18.0	2716.7	2641.1	2675.5	2701.7	2716.7					
G19.0	2626.4	2550.1	2574.6	2607.8	2626.4					
G20.0	2529.6	2454.2	2469.3	2501.3	2529.6					
G21.0	2422.4	2355.0	2356.6	2395.6	2422.4					
G22.0	2317.9	2241.6	2233.4	2281.4	2317.9					
G23.0	2205.6	2130.0	2118.1	2173.0	2205.6					
G24.0	2097.3	2022.2	2013.2	2062.2	2097.3					
G25.0	1978.5	1923.5	1901.2	1951.4	1978.5					
G26.0	1867.1	1808.2	1792.9	1837.1	1867.1					
G27.0	1754.2	1706.7	1673.4	1729.0	1754.2					
G28.0	1637.1	1589.7	1557.8	1615.5	1637.1					
G29.0	1506.4	1450.6	1415.7	1485.5	1506.4					
G30.0	1356.1	1288.4	1249.9	1331.3	1356.1					
G31.0	1182.0	1094.4	1047.1	1152.4	1182.0					
G32.0	975.3	872.3	828.2	946.3	975.3					
G33.0	750.0	627.1	608.2	715.2	750.0					
G34.0	537.1	438.1	425.2	504.6	537.1					
G35.0	378.6	305.4	300.1	349.4	378.6					
G36.0	269.8	228.9	224.7	249.6	269.8					

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 7.990 m

Humidity:

Inspector:

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Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G37.0	208.4	181.3	177.5	194.6	208.4					
G38.0	167.8	148.0	145.3	158.6	167.8					
G39.0	138.4	122.2	121.5	131.9	138.4					
G40.0	116.2	102.7	102.7	111.1	116.2					
G41.0	98.9	87.8	88.1	96.2	98.9					
G42.0	85.5	76.4	77.9	83.8	85.5					
G43.0	75.5	67.6	69.5	74.7	75.5					
G44.0	67.2	60.5	62.7	67.3	67.2					
G45.0	60.5	54.4	56.6	61.0	60.5					
G46.0	54.5	49.4	51.9	55.6	54.5					
G47.0	49.6	44.8	47.2	50.8	49.6					
G48.0	44.9	40.7	43.1	46.4	44.9					
G49.0	40.9	36.9	39.3	42.5	40.9					
G50.0	37.0	33.3	35.9	38.9	37.0					
G51.0	33.4	29.8	32.7	35.3	33.4					
G52.0	29.9	26.6	29.4	32.2	29.9					
G53.0	26.7	23.6	26.4	29.1	26.7					
G54.0	23.7	20.8	23.7	26.2	23.7					
G55.0	21.0	18.1	21.1	23.4	21.0					
G56.0	18.2	15.8	18.5	20.5	18.2					
G57.0	15.5	13.0	15.7	17.9	15.5					
G58.0	11.9	9.3	12.7	14.4	11.9					
G59.0	6.5	6.2	7.5	8.9	6.5					
G60.0	5.3	5.2	6.2	6.5	5.3					
G61.0	4.5	4.1	5.2	5.4	4.5					
G62.0	3.5	3.4	4.3	4.4	3.5					
G63.0	3.0	3.0	3.7	3.6	3.0					
G64.0	2.5	2.4	3.0	3.0	2.5					
G65.0	2.0	1.9	2.5	2.5	2.0					
G66.0	1.4	1.5	2.1	2.0	1.4					
G67.0	1.1	1.3	1.5	1.5	1.1					
G68.0	0.9	0.9	1.2	1.2	0.9					
G69.0	0.7	0.7	1.0	1.0	0.7					
G70.0	0.5	0.4	0.7	0.7	0.5					
G71.0	0.3	0.3	0.6	0.5	0.3					
G72.0	0.1	0.2	0.3	0.2	0.1					
G73.0	0.0	0.0	0.2	0.1	0.0					

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 7.990 m

Humidity:

Inspector:

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Unit: cd

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

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.990 m
Humidity:
Inspector: