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Report No.:

Test Time: 2017-07-27 14:26

## Luminaire Property

Luminaire Manufacturer:  
Luminaire Category: LED DownLight  
Lamp Catalog: 4000k  
Luminous Length (mm): 130  
Voltage: 219.9 V  
Power: 55.70 W

Luminaire Description: DLC0555-B840 50D  
Lamp Description: T120840M2  
Luminous Width (mm): 130  
Current: 0.314 A  
Power Factor: 0.806

## Photometric Results

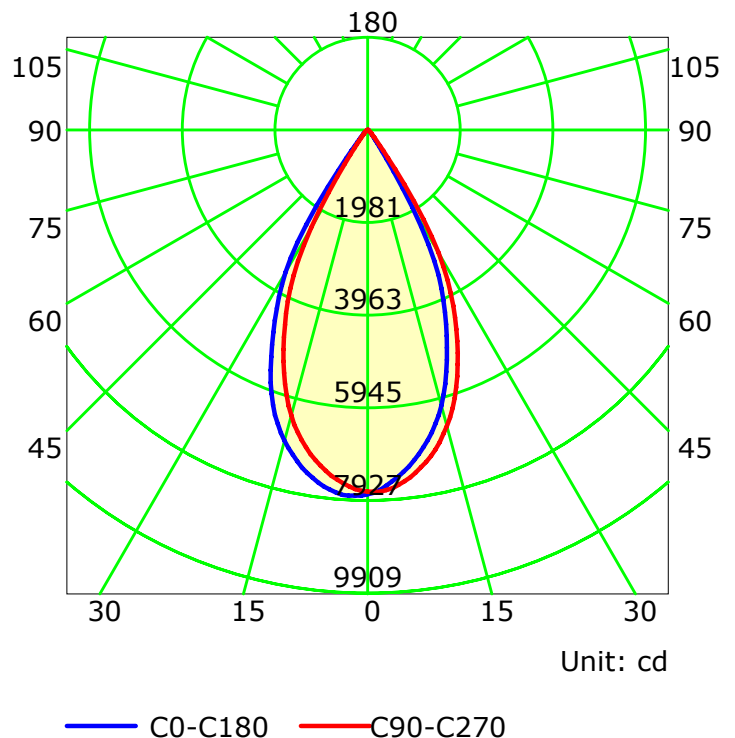
CIE Class: Direct  
Measurement Flux: 5217.7 lm  
Downward Ratio: 100%  
Field Angle: H69.8 V70.3  
Luminaire Efficacy Rating (LER): 94  
Max. Intensity: 7832.25 cd

Total Rated Lamp Lumens: 5217.7 lm  
Efficiency: 100%  
Upward Ratio: 0%  
Beam Angle: H52.9 V52.8  
Central Intensity: 7790.97 cd  
Pos of Max. Intensity: H180 V3

Picture Of Luminaire



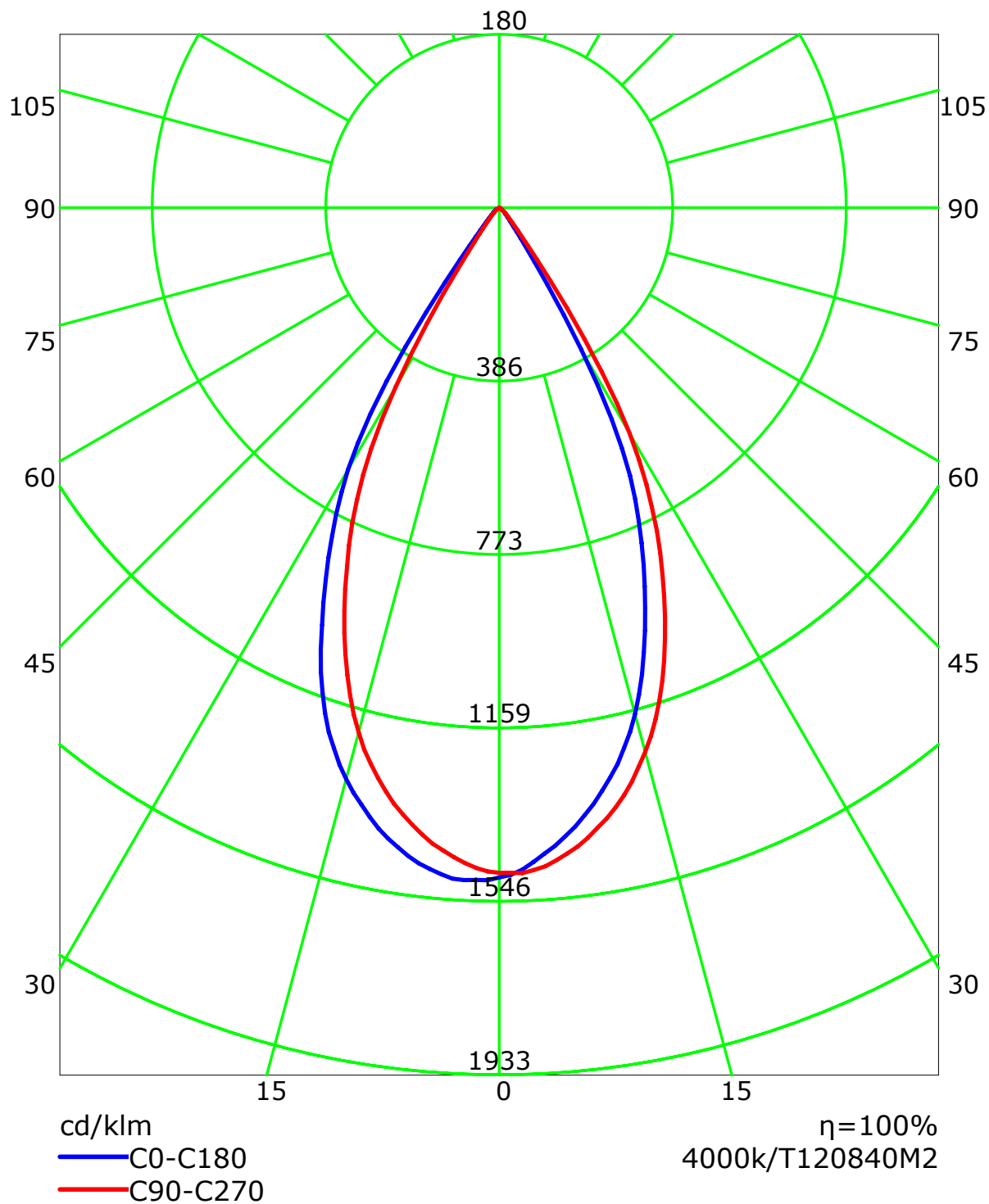
Luminous Intensity Distribution Curve



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:

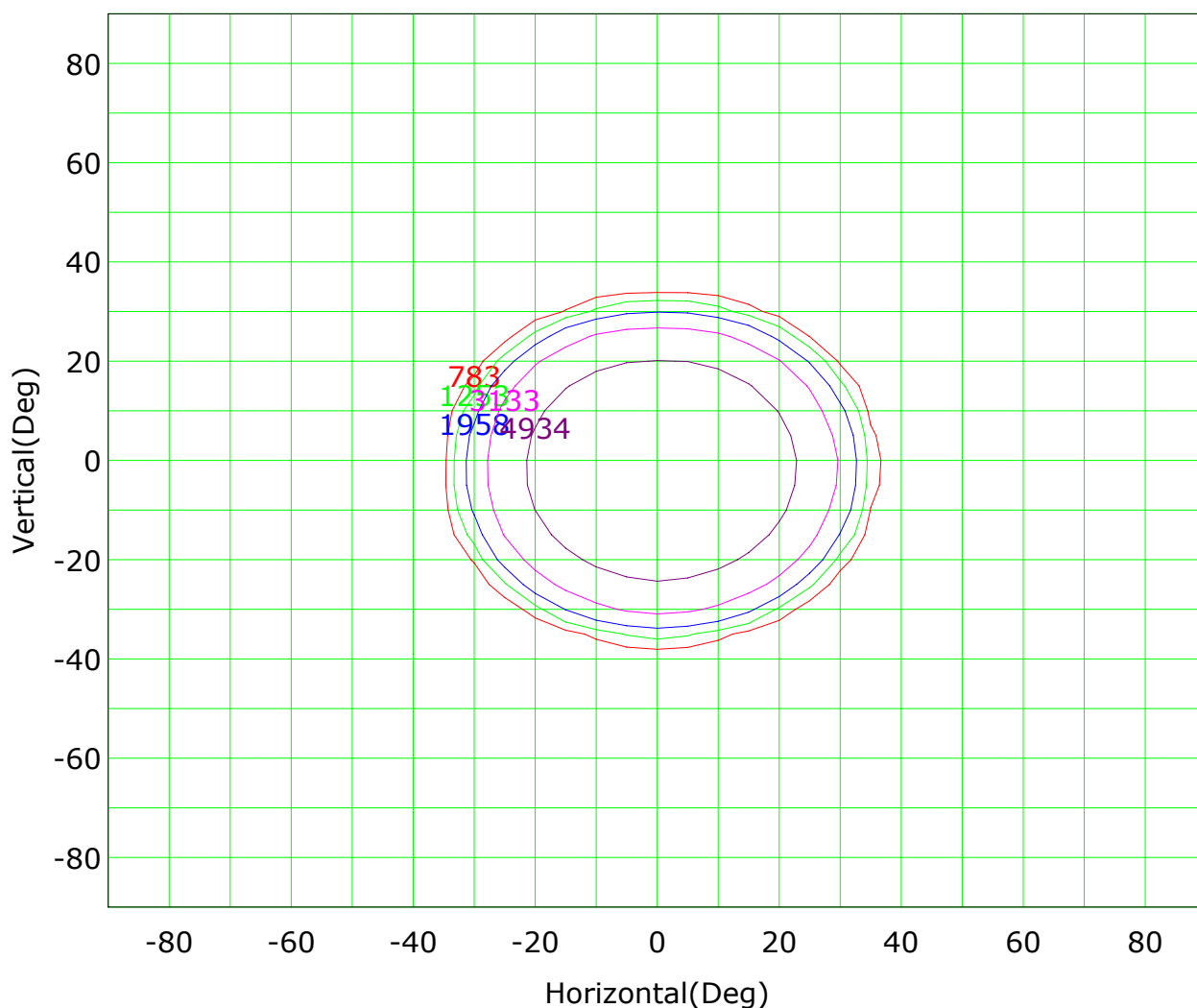
## Luminous Intensity Distribution Curve(cd/klm)



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)



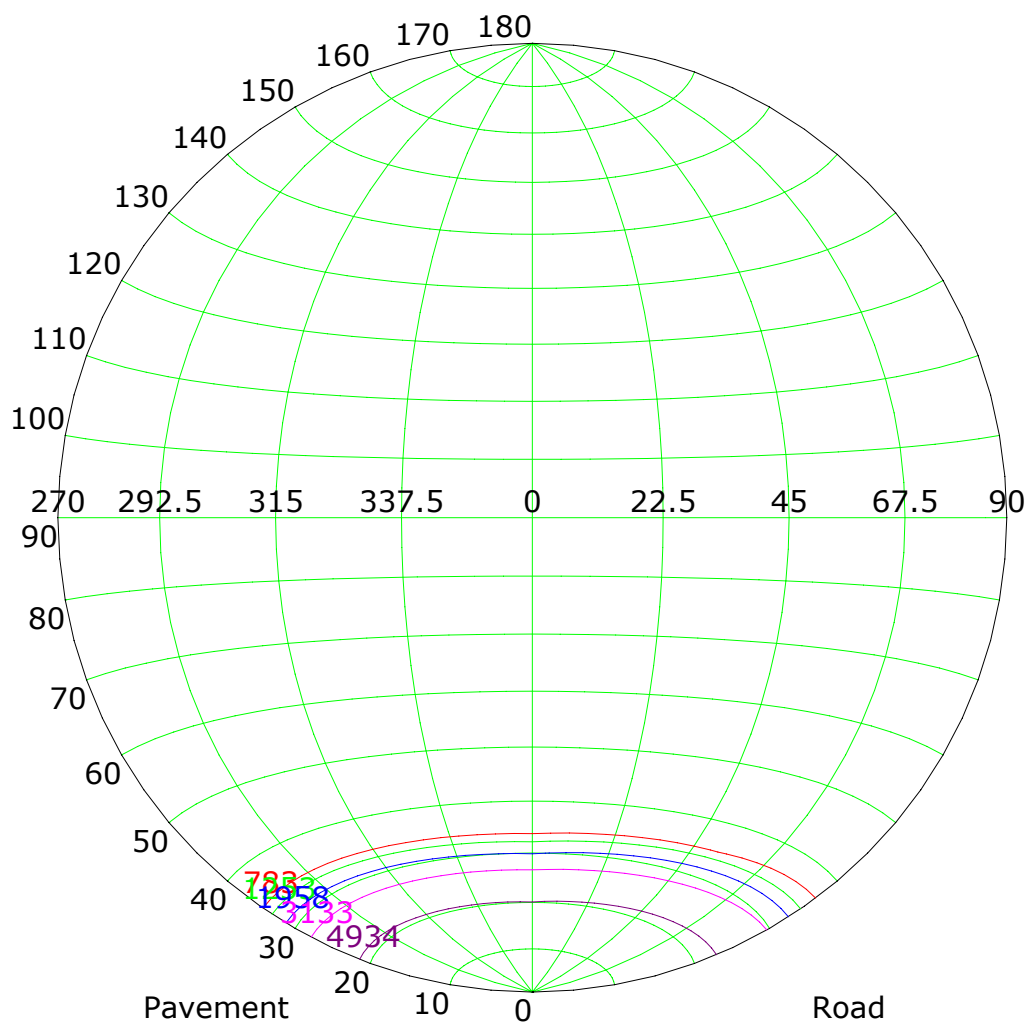
Imax (100%): 7832 cd

( 10%): 783 cd	( 16%): 1253 cd
( 25%): 1958 cd	( 40%): 3133 cd
( 63%): 4934 cd	(100%): 7832 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:

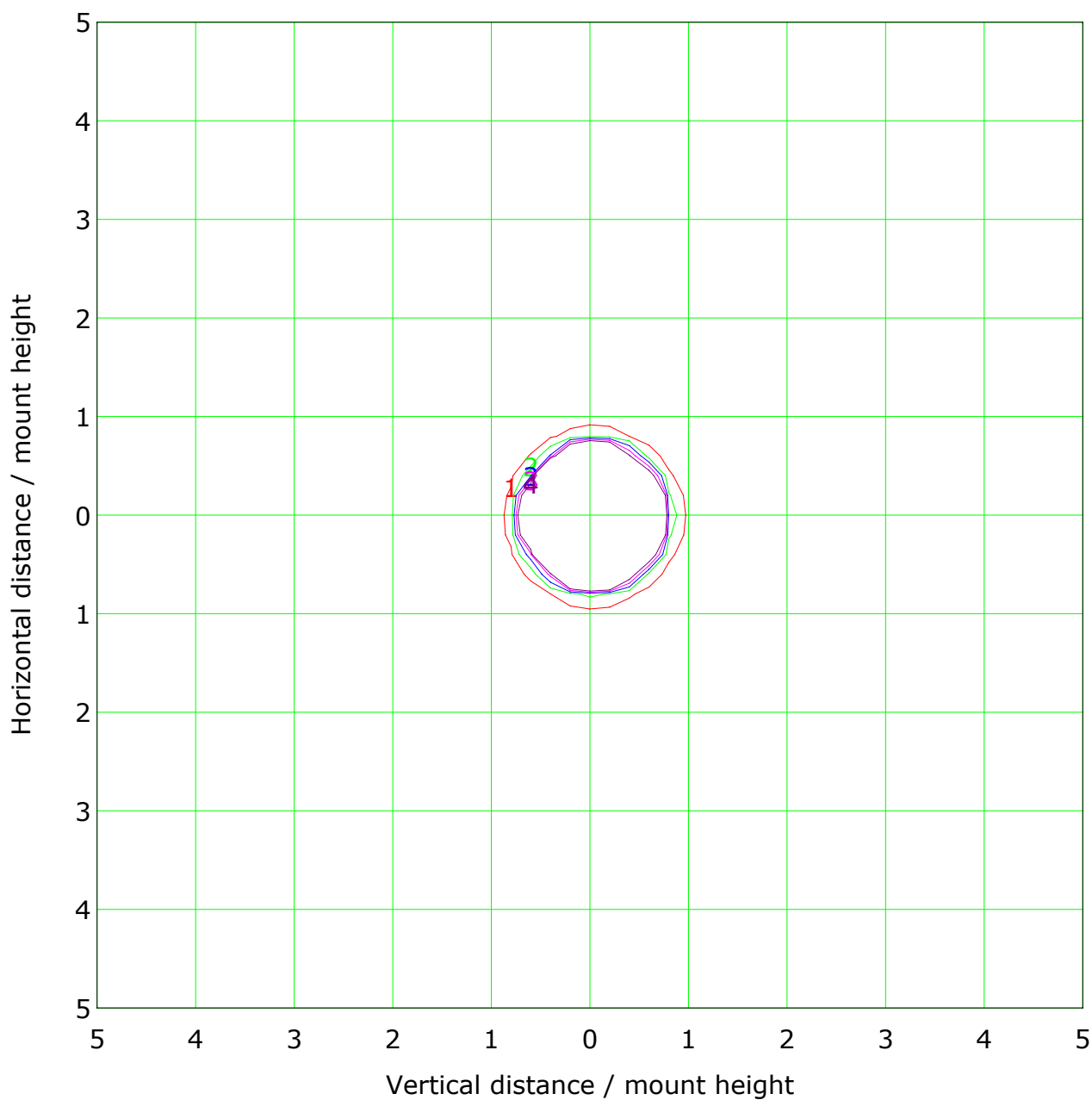
## Isocandela (sphere)



Imax (100%): 7832 cd

( 10%): 783 cd	( 16%): 1253 cd
( 25%): 1958 cd	( 40%): 3133 cd
( 63%): 4934 cd	(100%): 7832 cd

## IsoLux Plot



Mounting Height: 10.0m    Max Lux(100%): 78.2 lx

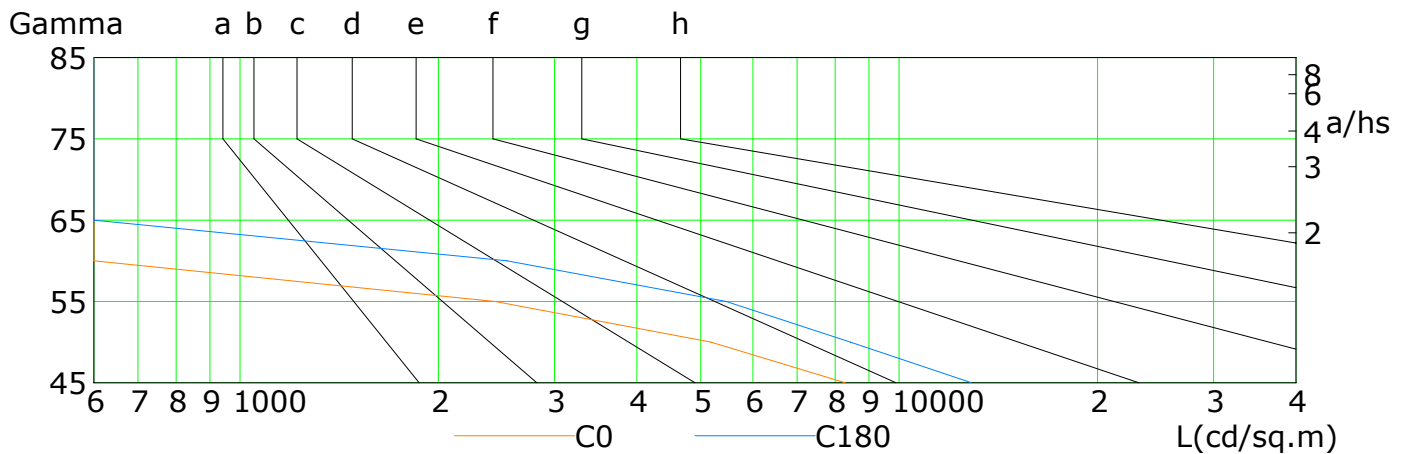
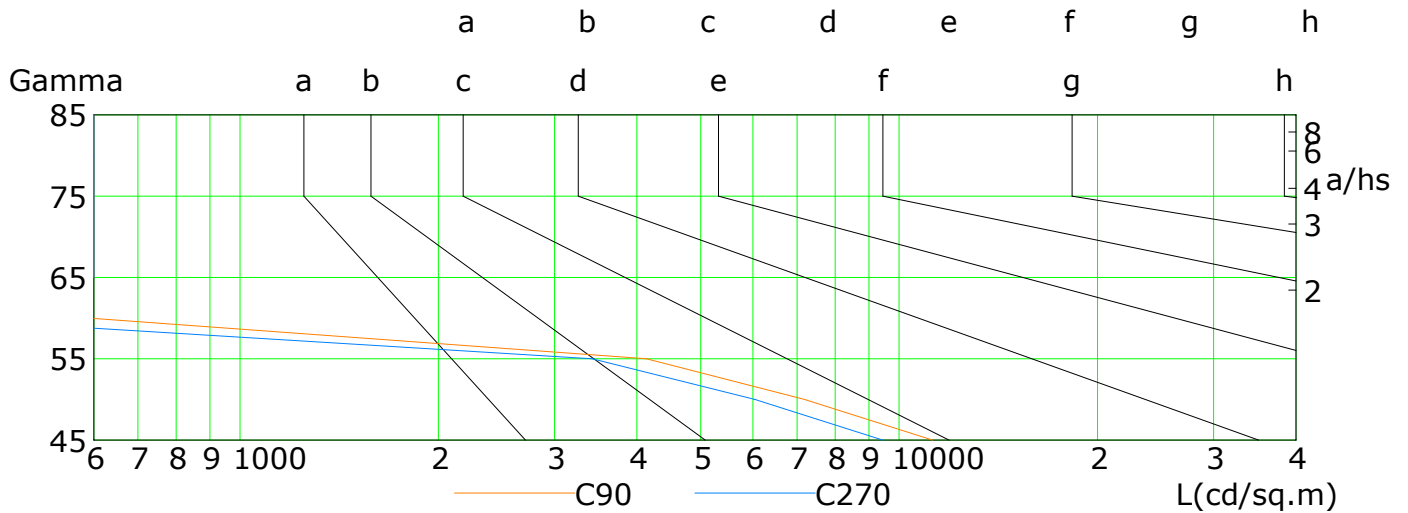
( 1%): 0.8 lx	( 2%): 1.6 lx
( 3%): 2.3 lx	( 4%): 3.1 lx
( 5%): 3.9 lx	

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	8286	5184	2437	0	0	0	0	0	0
C90	11242	7183	4136	593	0	0	0	0	0
C180	12879	8435	5465	2542	0	0	0	0	0
C270	9444	6041	3422	338	0	0	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

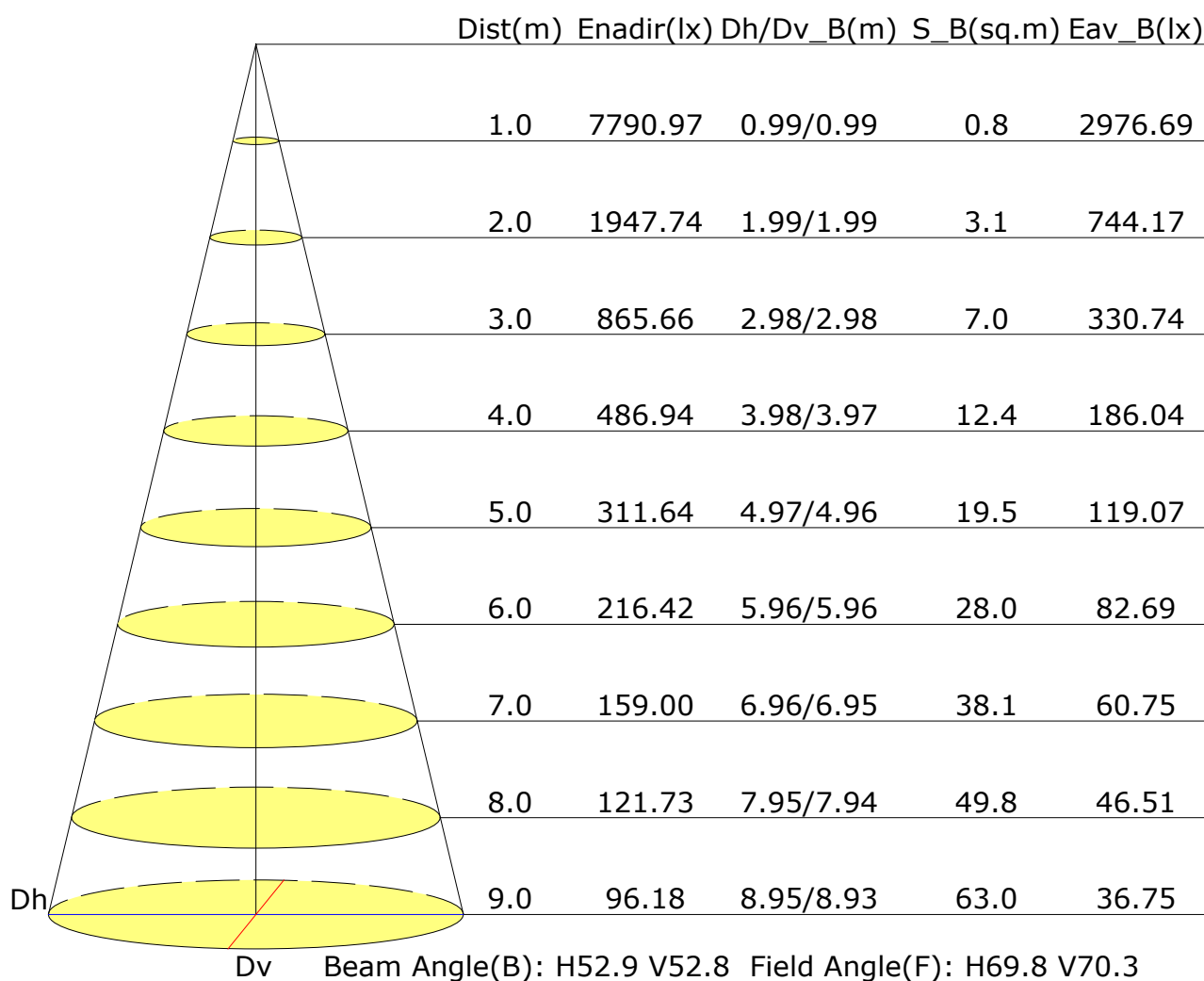
Test Device: GPM-1600L

Distance: 7.990 m

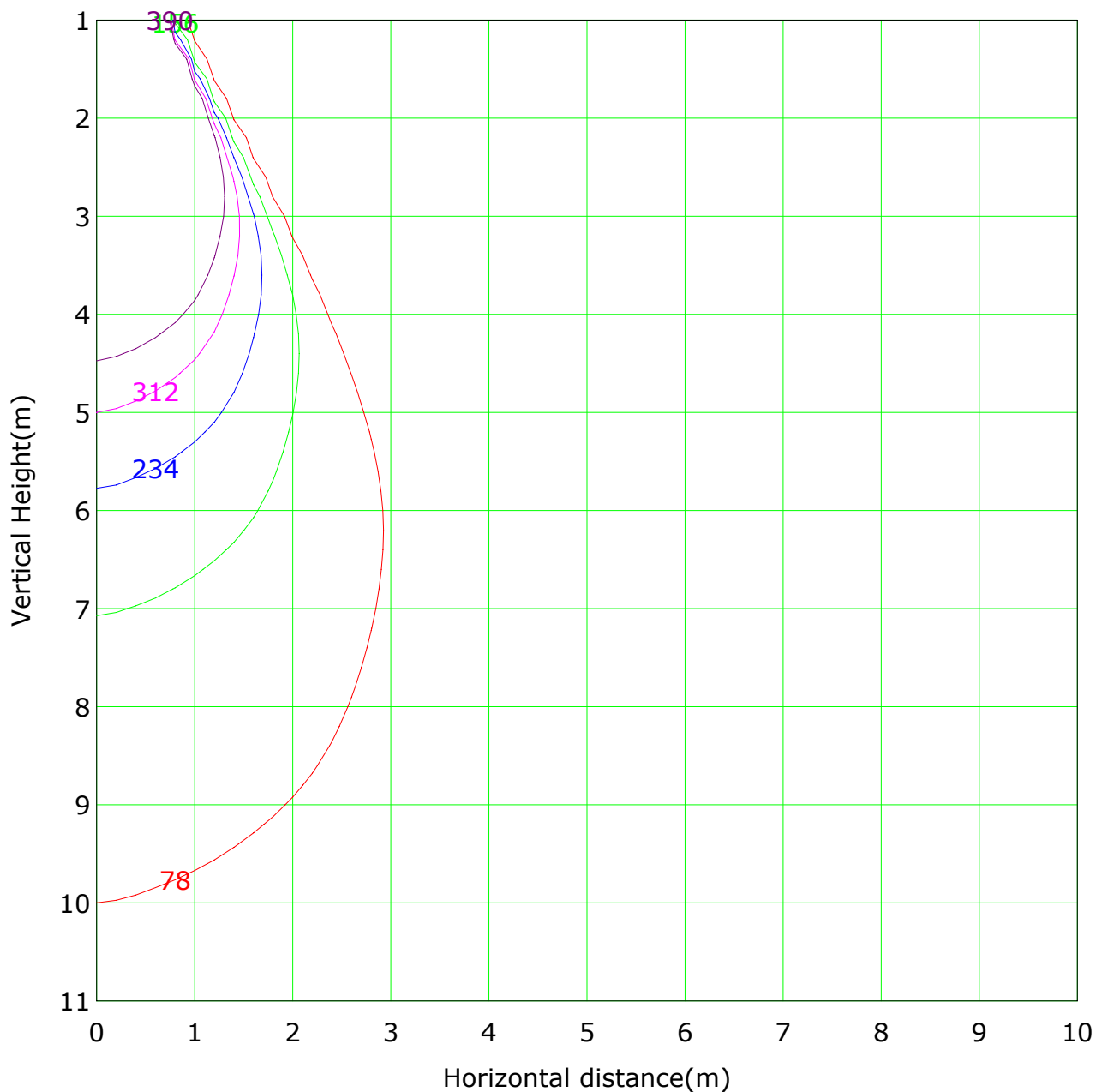
Humidity:

Inspector:

## Illuminance at a Distance



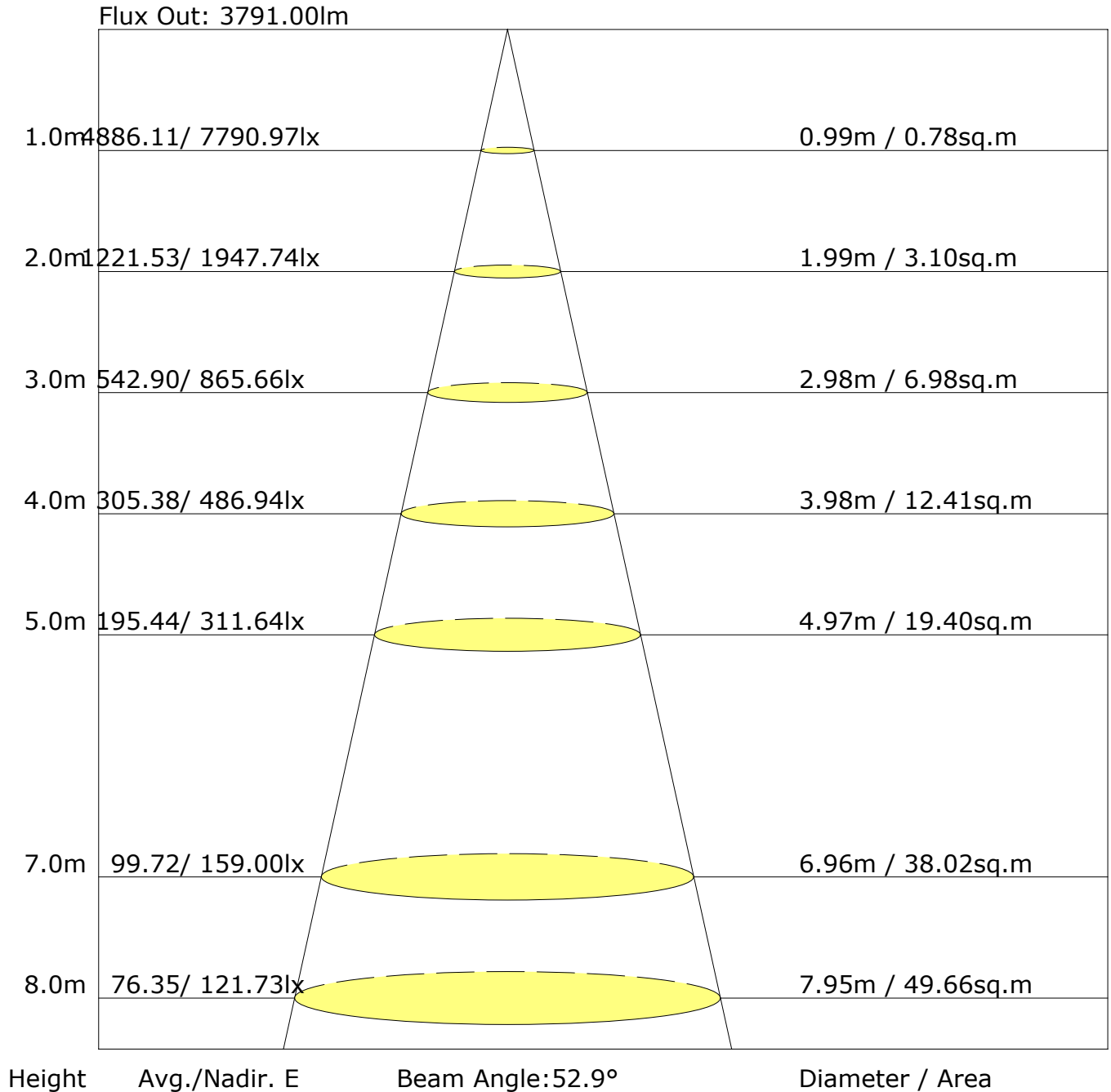
## Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 7791.0 lx  
— ( 1%): 77.9 lx — ( 2%): 155.8 lx  
— ( 3%): 233.7 lx — ( 4%): 311.6 lx  
— ( 5%): 389.5 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	-10.9	-10.0	-10.6	-9.7	-9.4	-1.8	-0.9	-1.5	-0.6	-0.3
3H	-11.2	-10.4	-10.8	-10.0	-9.7	-2.1	-1.3	-1.7	-0.9	-0.6
4H	-11.3	-10.5	-10.9	-10.2	-9.8	-2.2	-1.4	-1.8	-1.1	-0.7
6H	-11.4	-10.7	-11.0	-10.3	-9.9	-2.3	-1.6	-1.9	-1.2	-0.8
8H	-11.4	-10.8	-11.0	-10.4	-10.0	-2.3	-1.7	-1.9	-1.3	-0.9
12H	-11.5	-10.9	-11.1	-10.5	-10.1	-2.4	-1.8	-2.0	-1.4	-1.0
X=4H Y=2H	-11.3	-10.5	-10.9	-10.2	-9.8	-2.2	-1.4	-1.8	-1.1	-0.7
3H	-11.5	-10.9	-11.1	-10.5	-10.1	-2.4	-1.8	-2.0	-1.4	-1.0
4H	-11.6	-11.1	-11.2	-10.7	-10.2	-2.5	-2.0	-2.1	-1.6	-1.1
6H	-11.7	-11.3	-11.3	-10.8	-10.4	-2.6	-2.2	-2.2	-1.7	-1.3
8H	-11.8	-11.4	-11.3	-10.9	-10.5	-2.7	-2.3	-2.2	-1.8	-1.4
12H	-11.9	-11.5	-11.4	-11.0	-10.6	-2.8	-2.4	-2.3	-1.9	-1.5
X=8H Y=4H	-11.8	-11.4	-11.3	-10.9	-10.5	-2.7	-2.3	-2.2	-1.8	-1.4
6H	-11.9	-11.6	-11.4	-11.1	-10.6	-2.9	-2.5	-2.3	-2.0	-1.5
8H	-12.0	-11.7	-11.5	-11.2	-10.7	-2.9	-2.6	-2.4	-2.1	-1.6
12H	-12.1	-11.8	-11.6	-11.3	-10.7	-3.0	-2.7	-2.5	-2.2	-1.7
X=12H Y=4H	-11.9	-11.5	-11.4	-11.0	-10.6	-2.8	-2.4	-2.3	-1.9	-1.5
6H	-12.0	-11.7	-11.5	-11.3	-10.7	-2.9	-2.6	-2.4	-2.2	-1.6
8H	-12.1	-11.8	-11.6	-11.3	-10.7	-3.0	-2.7	-2.5	-2.2	-1.7

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 <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	7763.1	7.4	7.4	0.14	0.14
1.0-2.0	7751.2	22.3	29.7	0.43	0.57
2.0-3.0	7720.8	36.9	66.6	0.71	1.28
3.0-4.0	7677.1	51.4	118.0	0.99	2.26
4.0-5.0	7621.9	65.6	183.6	1.26	3.52
5.0-6.0	7555.5	79.4	263.0	1.52	5.04
6.0-7.0	7482.0	92.9	355.9	1.78	6.82
7.0-8.0	7397.6	105.9	461.8	2.03	8.85
8.0-9.0	7301.9	118.4	580.1	2.27	11.12
9.0-10.0	7200.5	130.3	710.4	2.50	13.62
10.0-11.0	7091.1	141.7	852.2	2.72	16.33
11.0-12.0	6970.9	152.4	1004.6	2.92	19.25
12.0-13.0	6838.4	162.3	1166.9	3.11	22.36
13.0-14.0	6696.3	171.4	1338.3	3.29	25.65
14.0-15.0	6543.9	179.7	1518.0	3.44	29.09
15.0-16.0	6378.3	186.9	1704.9	3.58	32.67
16.0-17.0	6197.7	193.0	1897.9	3.70	36.37
17.0-18.0	6001.5	197.9	2095.8	3.79	40.17
18.0-19.0	5793.4	201.6	2297.4	3.86	44.03
19.0-20.0	5573.2	204.0	2501.4	3.91	47.94
20.0-21.0	5344.1	205.2	2706.7	3.93	51.87
21.0-22.0	5109.0	205.3	2912.0	3.94	55.81
22.0-23.0	4863.2	204.1	3116.1	3.91	59.72
23.0-24.0	4616.0	201.8	3317.9	3.87	63.59
24.0-25.0	4371.4	198.8	3516.7	3.81	67.40
25.0-26.0	4118.3	194.4	3711.1	3.73	71.13
26.0-27.0	3847.2	188.2	3899.4	3.61	74.73
27.0-28.0	3558.0	180.2	4079.5	3.45	78.19
28.0-29.0	3244.7	169.8	4249.3	3.25	81.44
29.0-30.0	2898.9	156.5	4405.9	3.00	84.44
30.0-31.0	2525.1	140.5	4546.4	2.69	87.13
31.0-32.0	2130.1	122.0	4668.5	2.34	89.47
32.0-33.0	1736.5	102.3	4770.8	1.96	91.43
33.0-34.0	1371.6	83.0	4853.8	1.59	93.03
34.0-35.0	1048.6	65.1	4918.9	1.25	94.27
35.0-36.0	780.6	49.7	4968.6	0.95	95.23

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 <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	579.8	37.8	5006.4	0.72	95.95
37.0-38.0	441.2	29.5	5035.9	0.56	96.52
38.0-39.0	347.5	23.7	5059.6	0.45	96.97
39.0-40.0	281.3	19.6	5079.2	0.38	97.35
40.0-41.0	233.9	16.7	5095.9	0.32	97.67
41.0-42.0	198.7	14.4	5110.3	0.28	97.94
42.0-43.0	172.0	12.7	5123.1	0.24	98.19
43.0-44.0	150.8	11.4	5134.5	0.22	98.40
44.0-45.0	133.0	10.2	5144.7	0.20	98.60
45.0-46.0	118.6	9.3	5154.0	0.18	98.78
46.0-47.0	106.3	8.5	5162.4	0.16	98.94
47.0-48.0	95.3	7.7	5170.1	0.15	99.09
48.0-49.0	85.8	7.0	5177.2	0.13	99.22
49.0-50.0	77.2	6.4	5183.6	0.12	99.35
50.0-51.0	68.9	5.8	5189.4	0.11	99.46
51.0-52.0	61.2	5.3	5194.7	0.10	99.56
52.0-53.0	54.0	4.7	5199.4	0.09	99.65
53.0-54.0	47.2	4.2	5203.5	0.08	99.73
54.0-55.0	40.7	3.6	5207.2	0.07	99.80
55.0-56.0	34.2	3.1	5210.3	0.06	99.86
56.0-57.0	27.2	2.5	5212.7	0.05	99.90
57.0-58.0	20.4	1.9	5214.6	0.04	99.94
58.0-59.0	14.3	1.3	5216.0	0.03	99.97
59.0-60.0	9.2	0.9	5216.8	0.02	99.98
60.0-61.0	5.2	0.5	5217.3	0.01	99.99
61.0-62.0	2.2	0.2	5217.5	0.00	100.00
62.0-63.0	1.0	0.1	5217.6	0.00	100.00
63.0-64.0	0.5	0.0	5217.7	0.00	100.00
64.0-65.0	0.2	0.0	5217.7	0.00	100.00
65.0-66.0	0.0	0.0	5217.7	0.00	100.00
66.0-67.0	0.0	0.0	5217.7	0.00	100.00
67.0-68.0	0.0	0.0	5217.7	0.00	100.00
68.0-69.0	0.0	0.0	5217.7	0.00	100.00
69.0-70.0	0.0	0.0	5217.7	0.00	100.00
70.0-71.0	0.0	0.0	5217.7	0.00	100.00
71.0-72.0	0.0	0.0	5217.7	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:

Tel:  
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	7791.0	7738.2	7791.0	7738.2	7791.0					
G1.0	7761.6	7738.5	7824.4	7722.0	7761.6					
G2.0	7705.1	7745.6	7825.3	7686.9	7705.1					
G3.0	7621.8	7714.6	7832.3	7634.4	7621.8					
G4.0	7534.5	7681.2	7823.9	7573.8	7534.5					
G5.0	7452.4	7621.1	7782.9	7505.4	7452.4					
G6.0	7352.4	7555.7	7735.1	7438.8	7352.4					
G7.0	7253.6	7487.7	7684.5	7347.9	7253.6					
G8.0	7136.5	7402.5	7615.4	7252.6	7136.5					
G9.0	7020.7	7303.7	7534.0	7149.8	7020.7					
G10.0	6887.6	7212.3	7451.9	7043.9	6887.6					
G11.0	6754.4	7104.5	7357.9	6916.2	6754.4					
G12.0	6617.2	6986.8	7246.2	6783.8	6617.2					
G13.0	6451.6	6854.2	7126.2	6641.3	6451.6					
G14.0	6286.8	6701.9	7012.9	6495.5	6286.8					
G15.0	6099.0	6556.6	6881.6	6316.8	6099.0					
G16.0	5894.2	6397.7	6741.3	6139.0	5894.2					
G17.0	5678.8	6219.5	6576.7	5934.5	5678.8					
G18.0	5441.8	6026.9	6415.4	5718.9	5441.8					
G19.0	5204.4	5822.9	6221.6	5495.7	5204.4					
G20.0	4960.8	5606.5	6006.9	5266.7	4960.8					
G21.0	4720.3	5374.8	5790.0	5027.4	4720.3					
G22.0	4485.5	5147.9	5542.8	4783.7	4485.5					
G23.0	4236.1	4906.9	5275.0	4528.2	4236.1					
G24.0	3986.0	4666.6	5029.5	4299.8	3986.0					
G25.0	3739.1	4429.1	4774.6	4046.6	3739.1					
G26.0	3468.5	4182.6	4532.7	3773.4	3468.5					
G27.0	3140.6	3909.7	4281.0	3488.8	3140.6					
G28.0	2783.7	3647.2	4041.6	3171.6	2783.7					
G29.0	2362.8	3351.6	3782.5	2816.6	2362.8					
G30.0	1910.1	3033.3	3517.4	2416.7	1910.1					
G31.0	1460.6	2662.2	3190.5	2010.1	1460.6					
G32.0	1057.3	2249.6	2824.0	1586.3	1057.3					
G33.0	750.7	1816.8	2405.9	1201.7	750.7					
G34.0	555.3	1410.4	1954.5	877.9	555.3					
G35.0	430.9	1035.6	1485.8	638.8	430.9					
G36.0	343.8	750.2	1075.7	483.7	343.8					

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	280.9	557.6	762.8	383.5	280.9					
G38.0	235.0	431.6	567.9	310.0	235.0					
G39.0	202.3	344.8	433.1	255.1	202.3					
G40.0	176.1	282.8	342.2	214.0	176.1					
G41.0	155.8	235.3	279.2	185.9	155.8					
G42.0	137.9	200.2	233.6	161.5	137.9					
G43.0	124.1	174.2	201.4	143.4	124.1					
G44.0	110.0	152.5	174.9	126.2	110.0					
G45.0	99.0	134.3	153.9	112.9	99.0					
G46.0	88.8	120.7	137.7	101.2	88.8					
G47.0	79.5	106.7	125.0	90.7	79.5					
G48.0	70.9	95.7	111.9	81.8	70.9					
G49.0	63.7	86.9	102.1	73.0	63.7					
G50.0	56.3	78.0	91.6	65.6	56.3					
G51.0	49.6	69.2	82.6	58.5	49.6					
G52.0	42.2	61.8	74.0	51.8	42.2					
G53.0	36.5	53.5	67.1	44.9	36.5					
G54.0	29.6	46.5	59.9	39.6	29.6					
G55.0	23.6	40.1	53.0	33.2	23.6					
G56.0	15.8	34.1	46.5	27.7	15.8					
G57.0	4.3	28.2	40.1	21.0	4.3					
G58.0	2.4	22.2	34.6	10.3	2.4					
G59.0	0.0	11.7	28.4	4.5	0.0					
G60.0	0.0	5.0	21.5	2.9	0.0					
G61.0	0.0	2.4	8.8	0.9	0.0					
G62.0	0.0	0.0	5.3	0.0	0.0					
G63.0	0.0	0.0	2.6	0.0	0.0					
G64.0	0.0	0.0	1.4	0.0	0.0					
G65.0	0.0	0.0	0.0	0.0	0.0					
G66.0	0.0	0.0	0.0	0.0	0.0					
G67.0	0.0	0.0	0.0	0.0	0.0					
G68.0	0.0	0.0	0.0	0.0	0.0					
G69.0	0.0	0.0	0.0	0.0	0.0					
G70.0	0.0	0.0	0.0	0.0	0.0					
G71.0	0.0	0.0	0.0	0.0	0.0					
G72.0	0.0	0.0	0.0	0.0	0.0					
G73.0	0.0	0.0	0.0	0.0	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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## 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: