

Tel:
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Report No.:

Test Time: 2017-07-27 11:31

Luminaire Property

Luminaire Manufacturer:
Luminaire Category: LED DownLight
Lamp Catalog: 4000k
Luminous Length (mm): 100
Voltage: 219.8 V
Power: 53.90 W

Luminaire Description: DLC0555-B840 24D
Lamp Description: T120840M2
Luminous Width (mm): 100
Current: 0.305 A
Power Factor: 0.802

Photometric Results

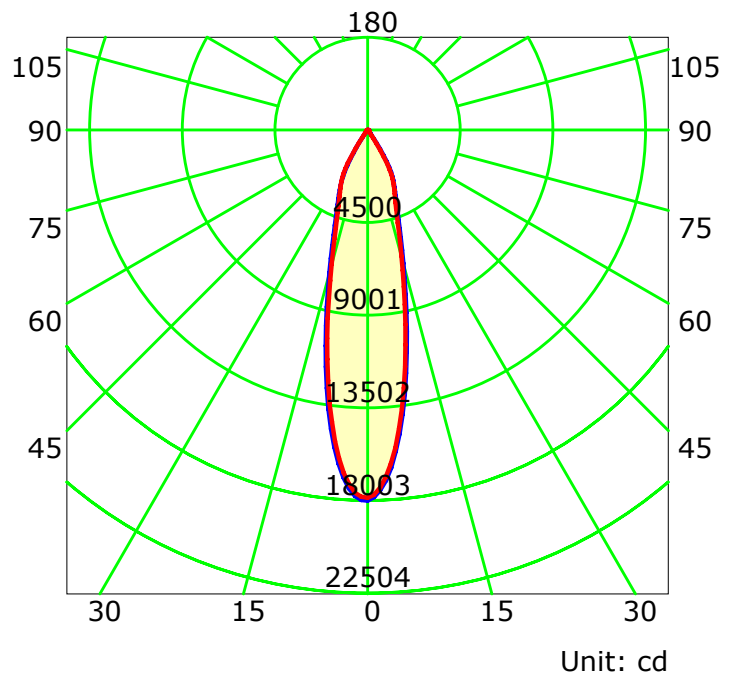
CIE Class: Direct
Measurement Flux: 5225.9 lm
Downward Ratio: 100%
Field Angle: H61.6 V61.5
Luminaire Efficacy Rating (LER): 97
Max. Intensity: 18003.86 cd

Total Rated Lamp Lumens: 5225.9 lm
Efficiency: 100%
Upward Ratio: 0%
Beam Angle: H24.9 V24.2
Central Intensity: 18003.86 cd
Pos of Max. Intensity: H0 V0

Picture Of Luminaire



Luminous Intensity Distribution Curve

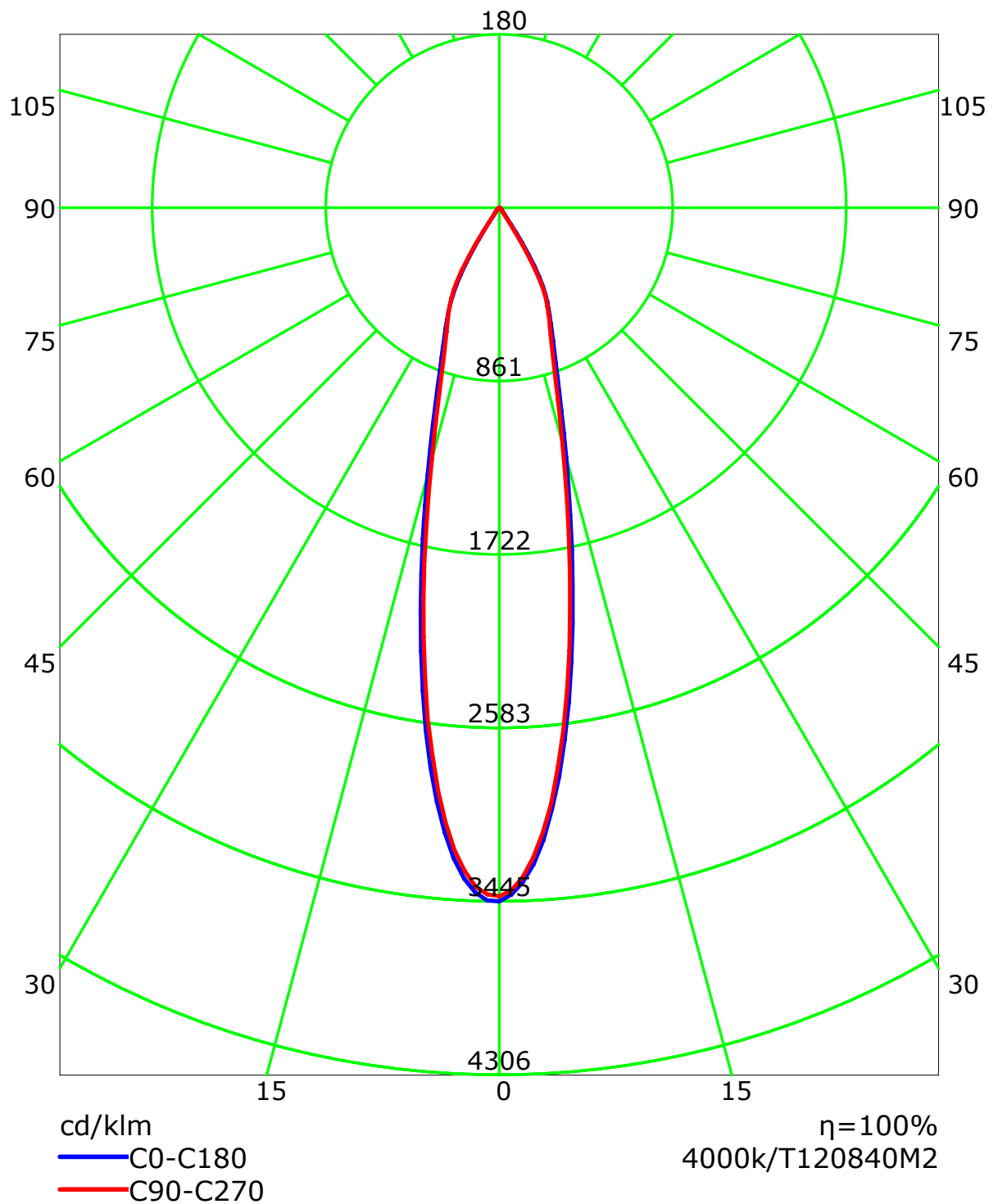


— C0-C180 — C90-C270

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:

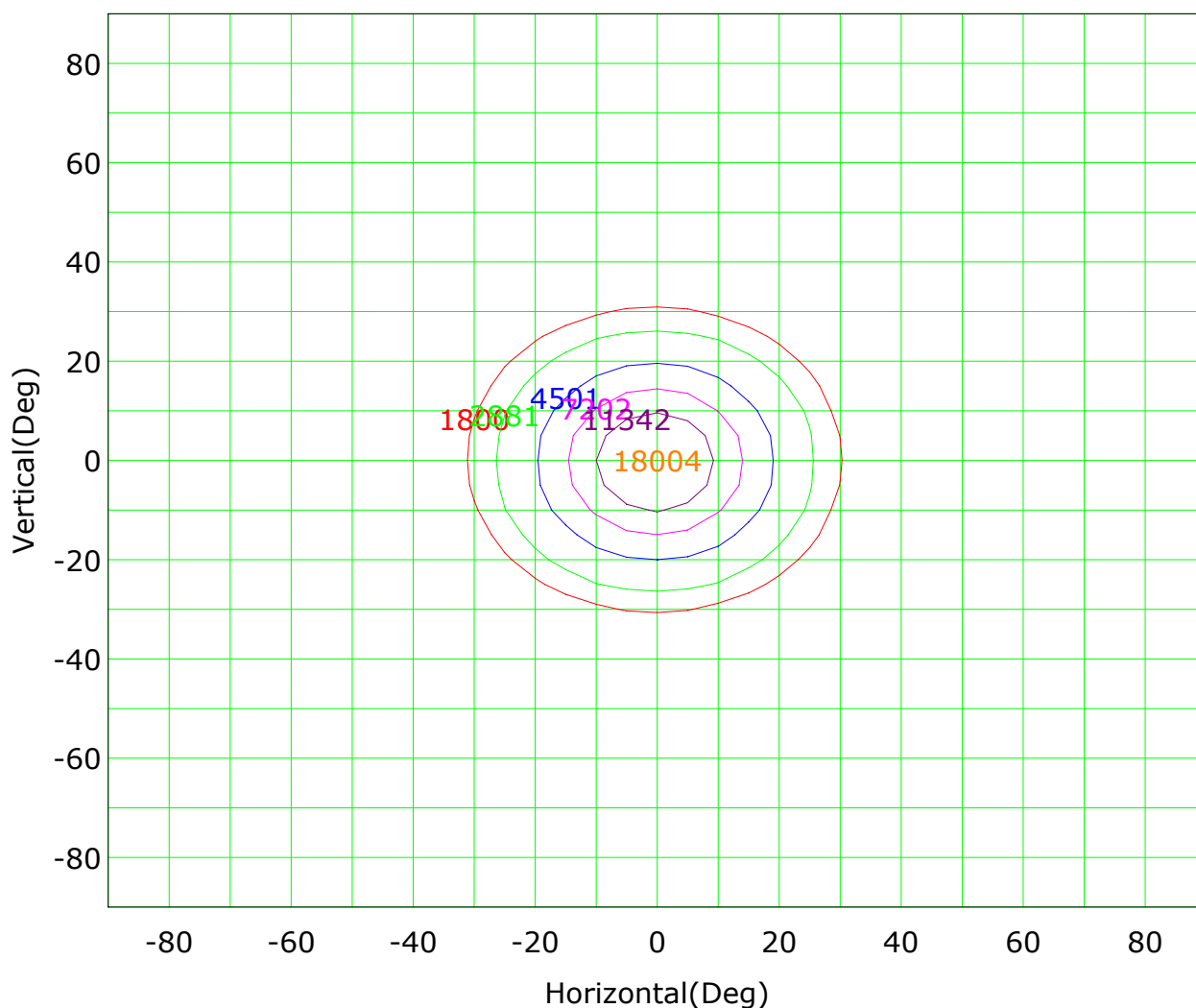
Luminous Intensity Distribution Curve(cd/klm)



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)



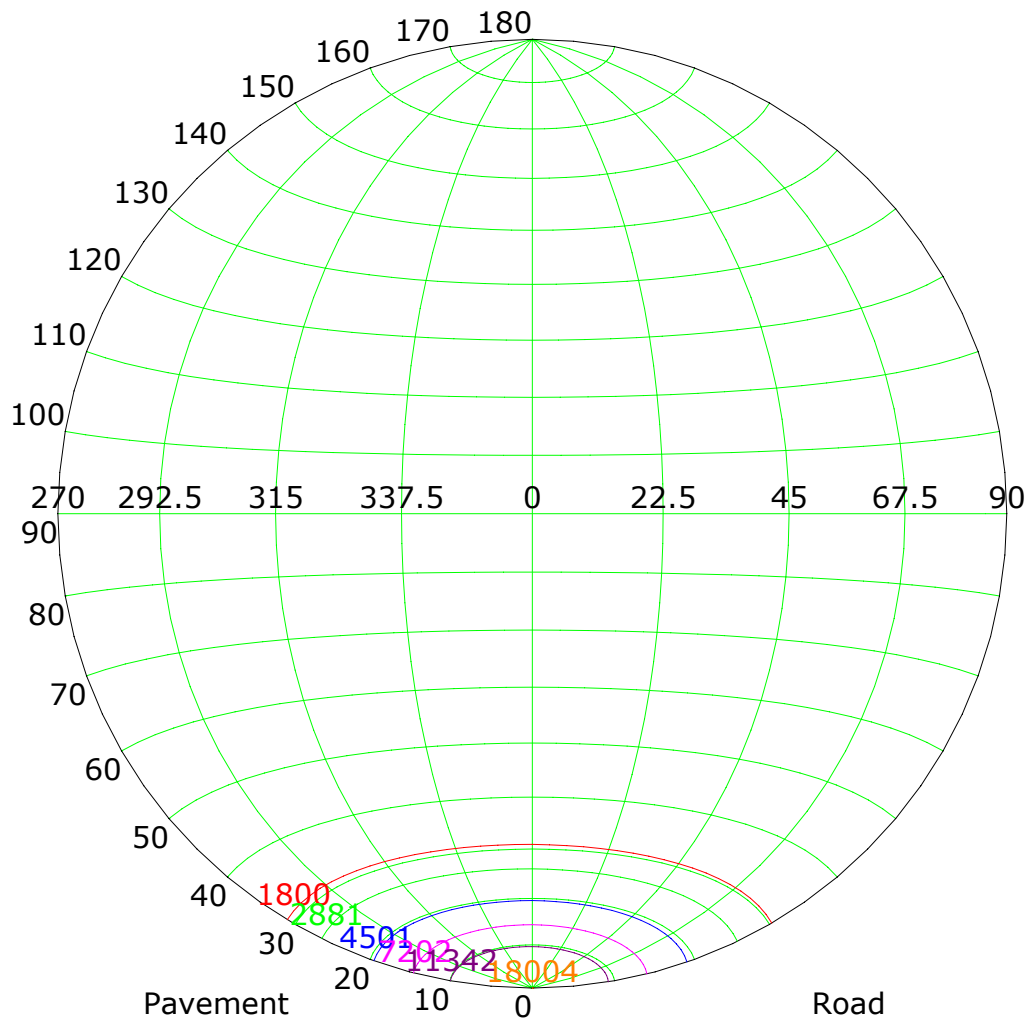
Imax (100%): 18004 cd

(10%): 1800 cd	(16%): 2881 cd
(25%): 4501 cd	(40%): 7202 cd
(63%): 11342 cd	(100%): 18004 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:

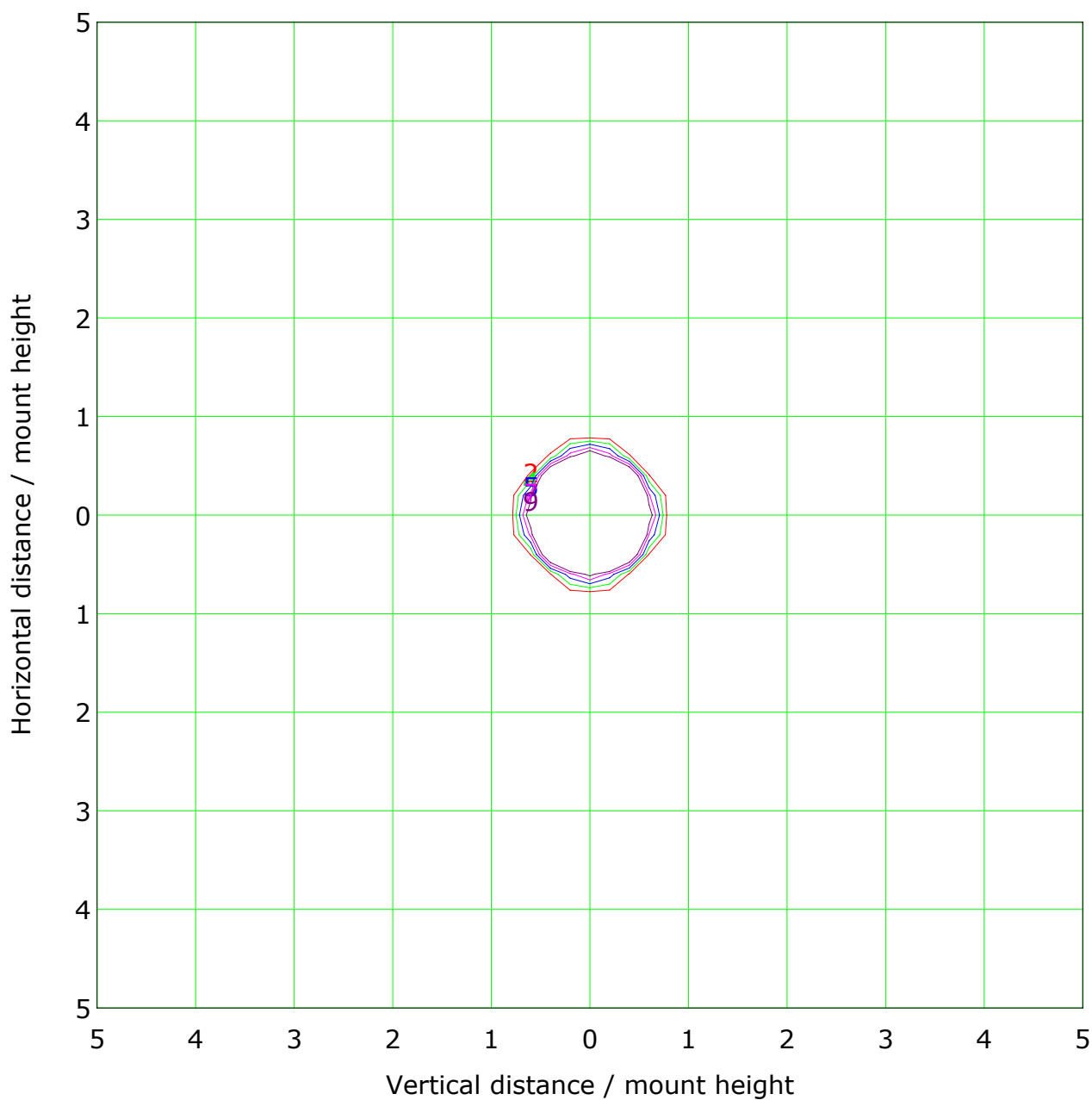
Isocandela (sphere)



Imax (100%): 18004 cd

(10%): 1800 cd	(16%): 2881 cd
(25%): 4501 cd	(40%): 7202 cd
(63%): 11342 cd	(100%): 18004 cd

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 180.0 lx

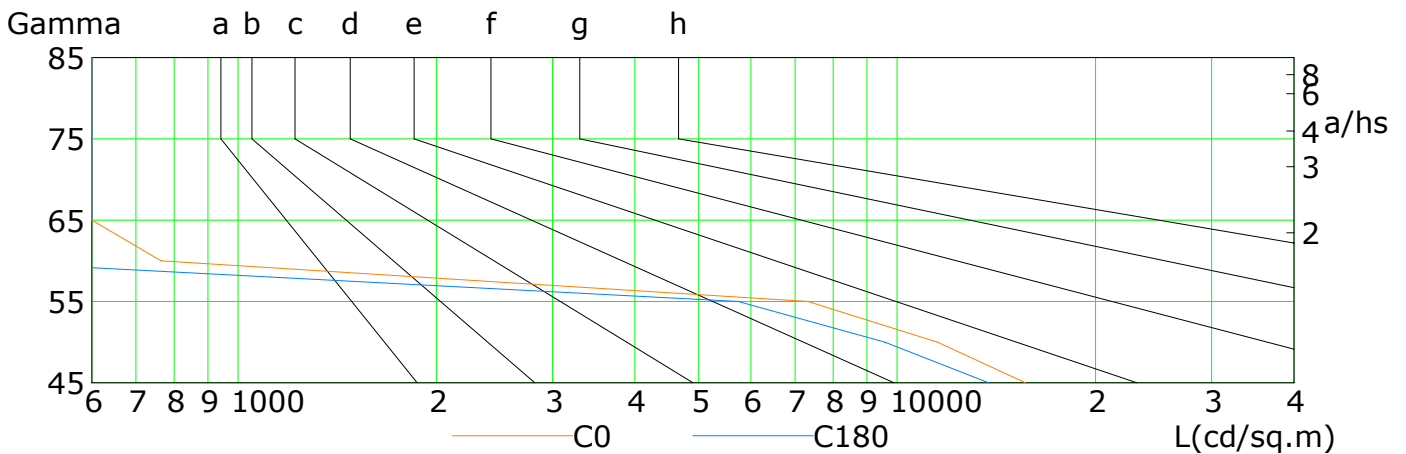
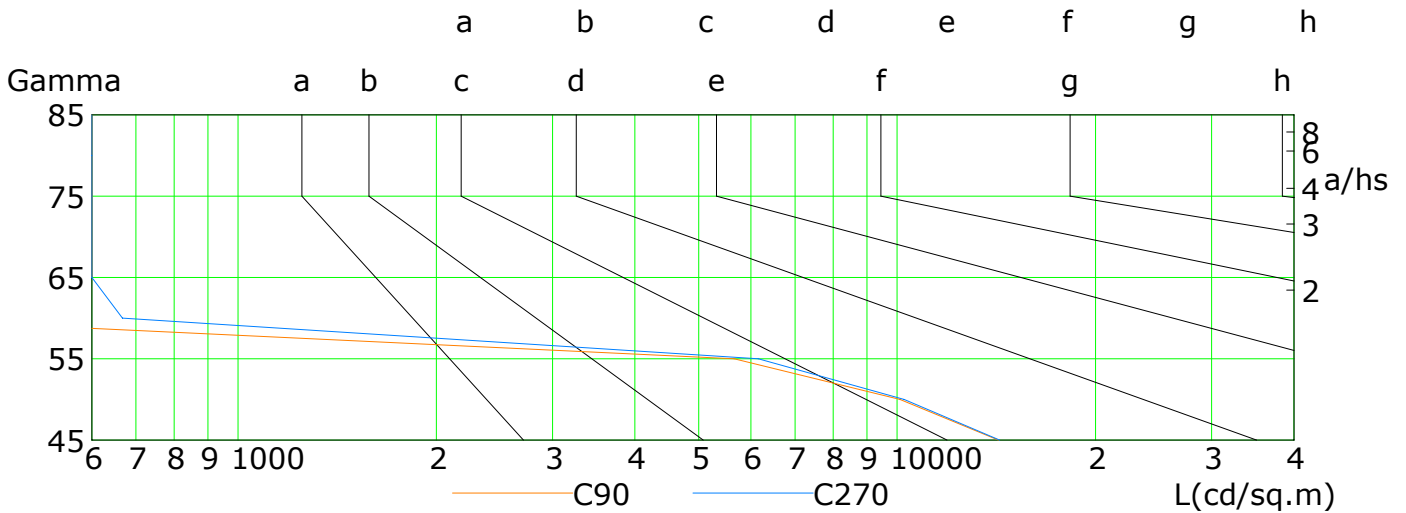
— (1%): 1.8 lx	— (2%): 3.6 lx
— (3%): 5.4 lx	— (4%): 7.2 lx
— (5%): 9.0 lx	

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	15658	11508	7322	764	0	0	0	0	0
C90	14240	10097	5657	286	0	0	0	0	0
C180	13767	9577	5741	382	0	0	0	0	0
C270	14308	10246	6156	668	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

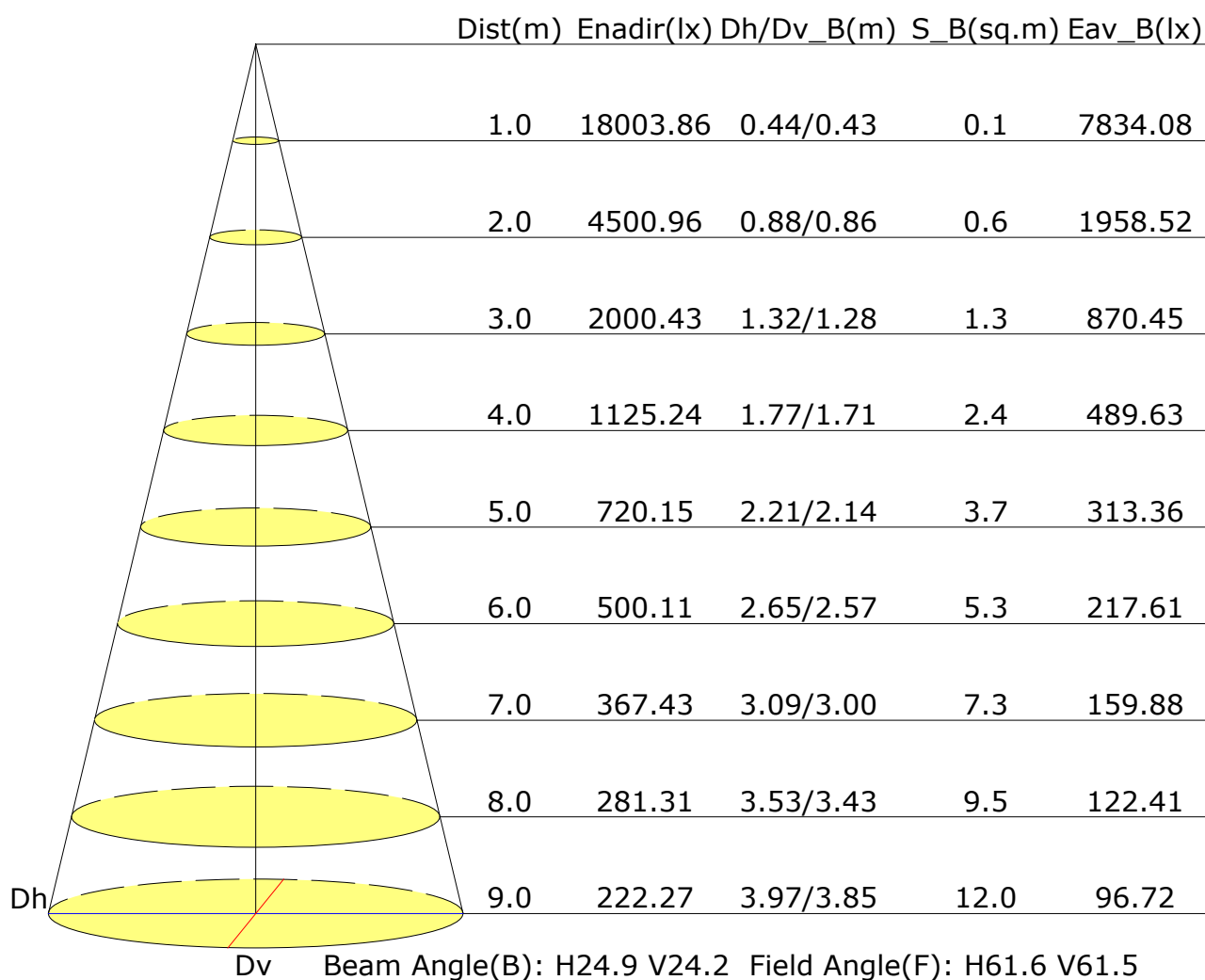
Humidity:

Inspector:

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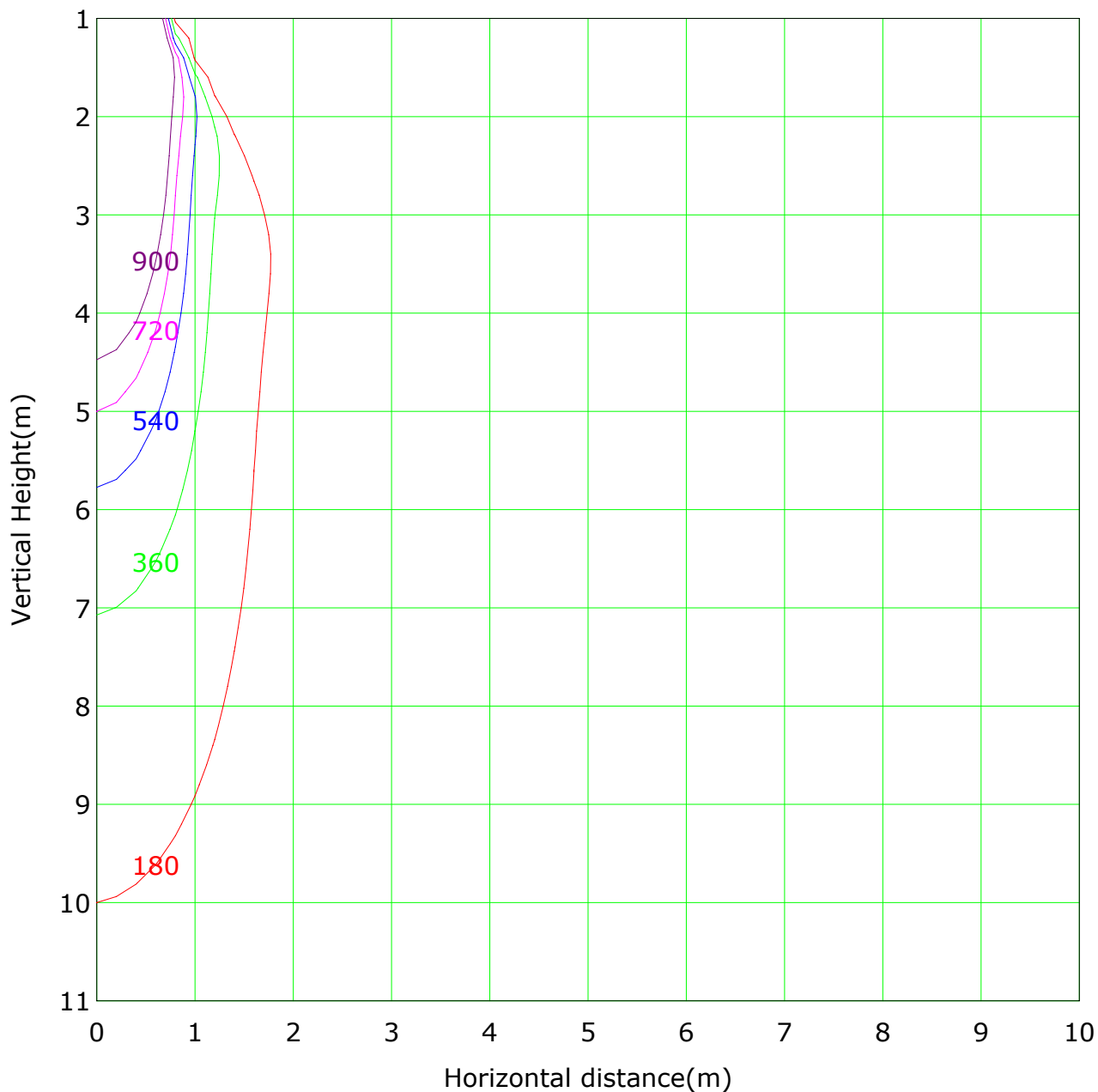
Illuminance at a Distance



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

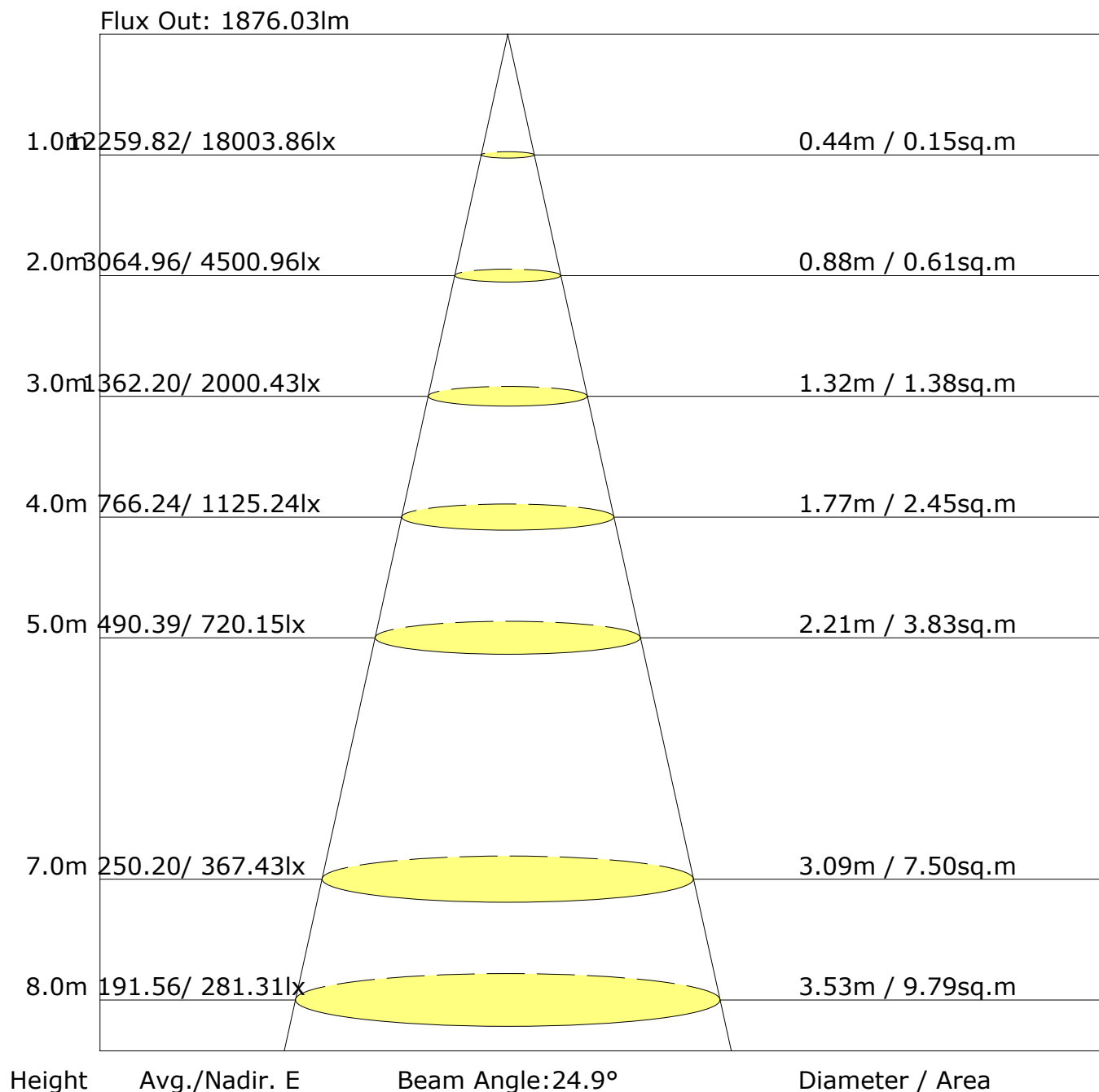


Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 18003.9 lx

(1%): 180.0 lx
(3%): 540.1 lx
(5%): 900.2 lx

(2%): 360.1 lx
(4%): 720.2 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	-1.0	-0.1	-0.6	0.2	0.5	-4.6	-3.6	-4.2	-3.3	-3.0	
3H	-1.2	-0.4	-0.8	-0.1	0.3	-4.8	-4.0	-4.4	-3.6	-3.3	
4H	-1.3	-0.6	-0.9	-0.2	0.2	-4.9	-4.1	-4.5	-3.8	-3.4	
6H	-1.4	-0.8	-1.0	-0.4	0.0	-5.0	-4.3	-4.6	-3.9	-3.5	
8H	-1.5	-0.9	-1.0	-0.5	-0.1	-5.1	-4.4	-4.6	-4.0	-3.6	
12H	-1.5	-1.0	-1.1	-0.6	-0.1	-5.1	-4.5	-4.7	-4.1	-3.7	
X=4H Y=2H	-1.3	-0.6	-0.9	-0.2	0.2	-4.9	-4.1	-4.5	-3.8	-3.4	
3H	-1.5	-0.9	-1.1	-0.5	-0.1	-5.1	-4.5	-4.7	-4.1	-3.7	
4H	-1.7	-1.1	-1.2	-0.7	-0.3	-5.2	-4.7	-4.8	-4.3	-3.8	
6H	-1.8	-1.3	-1.3	-0.9	-0.4	-5.4	-4.9	-4.9	-4.4	-4.0	
8H	-1.9	-1.4	-1.4	-1.0	-0.5	-5.4	-5.0	-4.9	-4.6	-4.1	
12H	-1.9	-1.6	-1.4	-1.1	-0.6	-5.5	-5.1	-5.0	-4.6	-4.2	
X=8H Y=4H	-1.9	-1.4	-1.4	-1.0	-0.5	-5.4	-5.0	-4.9	-4.6	-4.1	
6H	-2.0	-1.7	-1.5	-1.2	-0.7	-5.6	-5.2	-5.0	-4.7	-4.2	
8H	-2.1	-1.8	-1.5	-1.3	-0.8	-5.6	-5.3	-5.1	-4.8	-4.3	
12H	-2.1	-1.9	-1.6	-1.4	-0.8	-5.7	-5.4	-5.2	-4.9	-4.4	
X=12H Y=4H	-1.9	-1.6	-1.4	-1.1	-0.6	-5.5	-5.1	-5.0	-4.6	-4.2	
6H	-2.1	-1.8	-1.5	-1.3	-0.8	-5.6	-5.3	-5.1	-4.9	-4.3	
8H	-2.1	-1.9	-1.6	-1.4	-0.8	-5.7	-5.4	-5.2	-4.9	-4.4	

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:
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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	17889.5	17.1	17.1	0.33	0.33
1.0-2.0	17712.5	50.8	68.0	0.97	1.30
2.0-3.0	17369.1	83.1	151.0	1.59	2.89
3.0-4.0	16870.8	112.9	264.0	2.16	5.05
4.0-5.0	16227.6	139.6	403.6	2.67	7.72
5.0-6.0	15452.4	162.4	566.0	3.11	10.83
6.0-7.0	14580.1	181.0	747.0	3.46	14.29
7.0-8.0	13651.1	195.4	942.4	3.74	18.03
8.0-9.0	12665.8	205.3	1147.7	3.93	21.96
9.0-10.0	11646.7	210.8	1358.5	4.03	26.00
10.0-11.0	10645.9	212.7	1571.3	4.07	30.07
11.0-12.0	9681.9	211.7	1782.9	4.05	34.12
12.0-13.0	8759.7	207.9	1990.8	3.98	38.10
13.0-14.0	7897.8	202.2	2193.0	3.87	41.96
14.0-15.0	7118.4	195.5	2388.5	3.74	45.70
15.0-16.0	6425.4	188.3	2576.8	3.60	49.31
16.0-17.0	5817.3	181.2	2758.0	3.47	52.77
17.0-18.0	5289.6	174.4	2932.4	3.34	56.11
18.0-19.0	4839.6	168.4	3100.8	3.22	59.33
19.0-20.0	4455.4	163.1	3263.9	3.12	62.46
20.0-21.0	4130.0	158.6	3422.5	3.04	65.49
21.0-22.0	3855.9	155.0	3577.5	2.97	68.46
22.0-23.0	3616.7	151.8	3729.2	2.90	71.36
23.0-24.0	3405.1	148.9	3878.1	2.85	74.21
24.0-25.0	3211.9	146.1	4024.2	2.79	77.00
25.0-26.0	3031.2	143.1	4167.3	2.74	79.74
26.0-27.0	2852.4	139.6	4306.9	2.67	82.41
27.0-28.0	2660.0	134.7	4441.6	2.58	84.99
28.0-29.0	2440.8	127.7	4569.3	2.44	87.43
29.0-30.0	2180.8	117.8	4687.0	2.25	89.69
30.0-31.0	1878.1	104.5	4791.6	2.00	91.69
31.0-32.0	1534.0	87.9	4879.5	1.68	93.37
32.0-33.0	1172.9	69.1	4948.6	1.32	94.69
33.0-34.0	836.6	50.6	4999.2	0.97	95.66
34.0-35.0	566.3	35.2	5034.4	0.67	96.33
35.0-36.0	382.3	24.3	5058.7	0.47	96.80

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	273.2	17.8	5076.5	0.34	97.14
37.0-38.0	215.2	14.4	5090.9	0.27	97.42
38.0-39.0	183.1	12.5	5103.4	0.24	97.66
39.0-40.0	162.6	11.3	5114.8	0.22	97.87
40.0-41.0	147.9	10.5	5125.3	0.20	98.07
41.0-42.0	135.8	9.9	5135.2	0.19	98.26
42.0-43.0	125.0	9.3	5144.4	0.18	98.44
43.0-44.0	115.7	8.7	5153.1	0.17	98.61
44.0-45.0	106.8	8.2	5161.4	0.16	98.76
45.0-46.0	98.7	7.7	5169.1	0.15	98.91
46.0-47.0	91.3	7.3	5176.3	0.14	99.05
47.0-48.0	84.1	6.8	5183.1	0.13	99.18
48.0-49.0	76.9	6.3	5189.5	0.12	99.30
49.0-50.0	69.9	5.8	5195.3	0.11	99.41
50.0-51.0	63.5	5.4	5200.7	0.10	99.52
51.0-52.0	57.0	4.9	5205.5	0.09	99.61
52.0-53.0	50.6	4.4	5210.0	0.08	99.69
53.0-54.0	44.5	3.9	5213.9	0.08	99.77
54.0-55.0	38.6	3.4	5217.3	0.07	99.84
55.0-56.0	32.5	2.9	5220.3	0.06	99.89
56.0-57.0	26.1	2.4	5222.6	0.05	99.94
57.0-58.0	18.7	1.7	5224.4	0.03	99.97
58.0-59.0	10.3	1.0	5225.3	0.02	99.99
59.0-60.0	4.4	0.4	5225.8	0.01	100.00
60.0-61.0	1.6	0.1	5225.9	0.00	100.00
61.0-62.0	0.2	0.0	5225.9	0.00	100.00
62.0-63.0	0.0	0.0	5225.9	0.00	100.00
63.0-64.0	0.0	0.0	5225.9	0.00	100.00
64.0-65.0	0.0	0.0	5225.9	0.00	100.00
65.0-66.0	0.0	0.0	5225.9	0.00	100.00
66.0-67.0	0.0	0.0	5225.9	0.00	100.00
67.0-68.0	0.0	0.0	5225.9	0.00	100.00
68.0-69.0	0.0	0.0	5225.9	0.00	100.00
69.0-70.0	0.0	0.0	5225.9	0.00	100.00
70.0-71.0	0.0	0.0	5225.9	0.00	100.00
71.0-72.0	0.0	0.0	5225.9	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	18003.9	17869.3	18003.9	17869.3	18003.9					
G1.0	17835.9	17728.0	17981.9	17823.9	17835.9					
G2.0	17516.1	17389.2	17789.6	17635.0	17516.1					
G3.0	17062.3	16889.5	17437.4	17234.1	17062.3					
G4.0	16451.0	16250.5	16932.5	16709.1	16451.0					
G5.0	15680.7	15508.4	16276.8	16011.9	15680.7					
G6.0	14856.1	14584.5	15496.5	15204.0	14856.1					
G7.0	13926.4	13653.0	14638.0	14282.0	13926.4					
G8.0	12978.2	12655.1	13704.0	13371.9	12978.2					
G9.0	11958.3	11639.1	12699.5	12320.1	11958.3					
G10.0	10961.9	10595.4	11689.2	11309.8	10961.9					
G11.0	9982.6	9626.6	10687.5	10313.8	9982.6					
G12.0	9074.5	8677.9	9733.0	9358.9	9074.5					
G13.0	8195.4	7821.8	8829.2	8386.8	8195.4					
G14.0	7402.7	7037.2	7963.0	7546.4	7402.7					
G15.0	6704.6	6345.7	7181.8	6766.1	6704.6					
G16.0	6077.0	5730.5	6498.9	6098.5	6077.0					
G17.0	5507.7	5216.1	5891.4	5518.2	5507.7					
G18.0	5049.5	4752.2	5355.4	5026.1	5049.5					
G19.0	4631.5	4388.6	4901.6	4611.4	4631.5					
G20.0	4282.2	4063.1	4501.7	4263.1	4282.2					
G21.0	3982.0	3792.0	4181.9	3974.4	3982.0					
G22.0	3724.8	3567.8	3899.4	3725.2	3724.8					
G23.0	3494.7	3368.3	3646.5	3506.7	3494.7					
G24.0	3282.8	3195.5	3422.7	3323.9	3282.8					
G25.0	3093.4	3018.0	3210.3	3148.7	3093.4					
G26.0	2923.5	2854.8	3013.2	2987.9	2923.5					
G27.0	2743.1	2675.8	2797.0	2824.2	2743.1					
G28.0	2556.0	2473.0	2566.5	2644.3	2556.0					
G29.0	2341.3	2212.4	2302.1	2430.5	2341.3					
G30.0	2086.9	1901.8	2003.4	2168.0	2086.9					
G31.0	1785.3	1537.6	1668.9	1873.1	1785.3					
G32.0	1440.8	1151.6	1320.0	1495.2	1440.8					
G33.0	1102.9	779.8	975.0	1118.1	1102.9					
G34.0	778.8	503.5	669.5	765.5	778.8					
G35.0	532.1	332.6	448.6	500.1	532.1					
G36.0	354.1	249.1	310.2	331.2	354.1					

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	261.0	203.3	230.0	246.3	261.0					
G38.0	212.4	178.0	190.4	200.4	212.4					
G39.0	184.7	161.3	166.1	171.8	184.7					
G40.0	165.6	148.4	148.9	153.7	165.6					
G41.0	152.7	137.0	136.5	140.3	152.7					
G42.0	139.8	126.0	125.0	128.9	139.8					
G43.0	129.3	117.4	115.0	118.8	129.3					
G44.0	119.8	109.3	105.9	109.8	119.8					
G45.0	110.7	100.7	97.3	101.2	110.7					
G46.0	102.6	94.0	89.7	93.5	102.6					
G47.0	95.4	86.4	82.1	86.4	95.4					
G48.0	88.3	79.7	74.9	79.2	88.3					
G49.0	80.7	72.1	68.2	72.1	80.7					
G50.0	74.0	64.9	61.6	65.9	74.0					
G51.0	67.8	58.7	55.4	59.7	67.8					
G52.0	60.6	51.1	49.6	53.5	60.6					
G53.0	54.4	44.9	43.9	46.8	54.4					
G54.0	47.7	38.7	37.7	42.0	47.7					
G55.0	42.0	32.5	32.9	35.3	42.0					
G56.0	34.8	26.3	26.3	30.1	34.8					
G57.0	27.7	19.1	20.5	24.3	27.7					
G58.0	19.1	6.7	13.8	18.1	19.1					
G59.0	6.7	3.3	3.8	11.0	6.7					
G60.0	3.8	1.4	1.9	3.3	3.8					
G61.0	1.4	0.0	0.0	0.5	1.4					
G62.0	0.0	0.0	0.0	0.0	0.0					
G63.0	0.0	0.0	0.0	0.0	0.0					
G64.0	0.0	0.0	0.0	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: