

Tel:  
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Page 1 of 16 Pages

Report No.:

Test Time: 2017-07-29 11:13

## Luminaire Property

Luminaire Manufacturer:  
Luminaire Category: LED DownLight  
Lamp Catalog: 3000k  
Luminous Length (mm): 130  
Voltage: 219.9 V  
Power: 25.50 W

Luminaire Description: DLC0525-B830 24D  
Lamp Description: T1204C430M2  
Luminous Width (mm): 130  
Current: 0.119 A  
Power Factor: 0.968

## Photometric Results

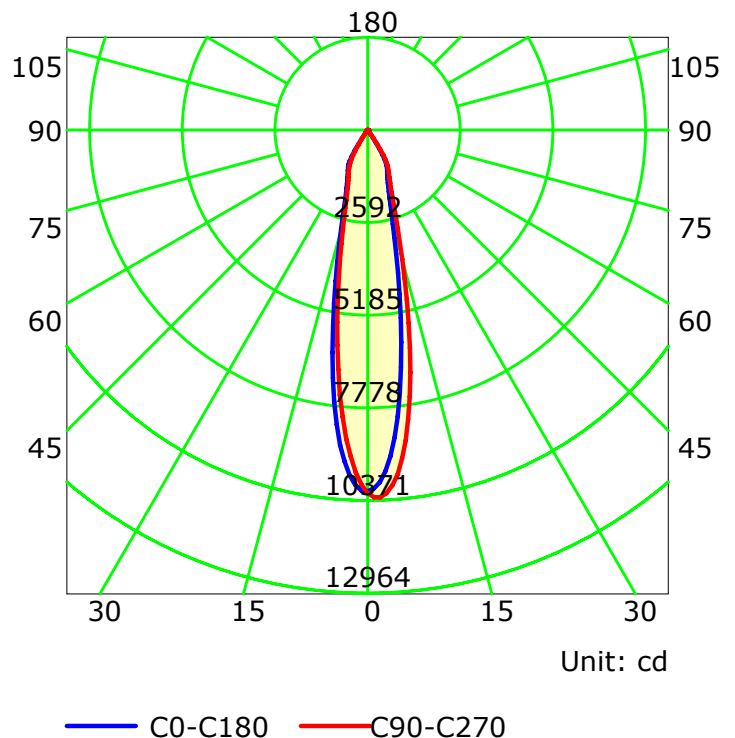
CIE Class: Direct  
Measurement Flux: 2450.8 lm  
Downward Ratio: 100%  
Field Angle: H59.5 V58.8  
Luminaire Efficacy Rating (LER): 96  
Max. Intensity: 10288.3 cd

Total Rated Lamp Lumens: 2450.8 lm  
Efficiency: 100%  
Upward Ratio: 0%  
Beam Angle: H21.3 V22.2  
Central Intensity: 10111.72 cd  
Pos of Max. Intensity: H90 V2

Picture Of Luminaire



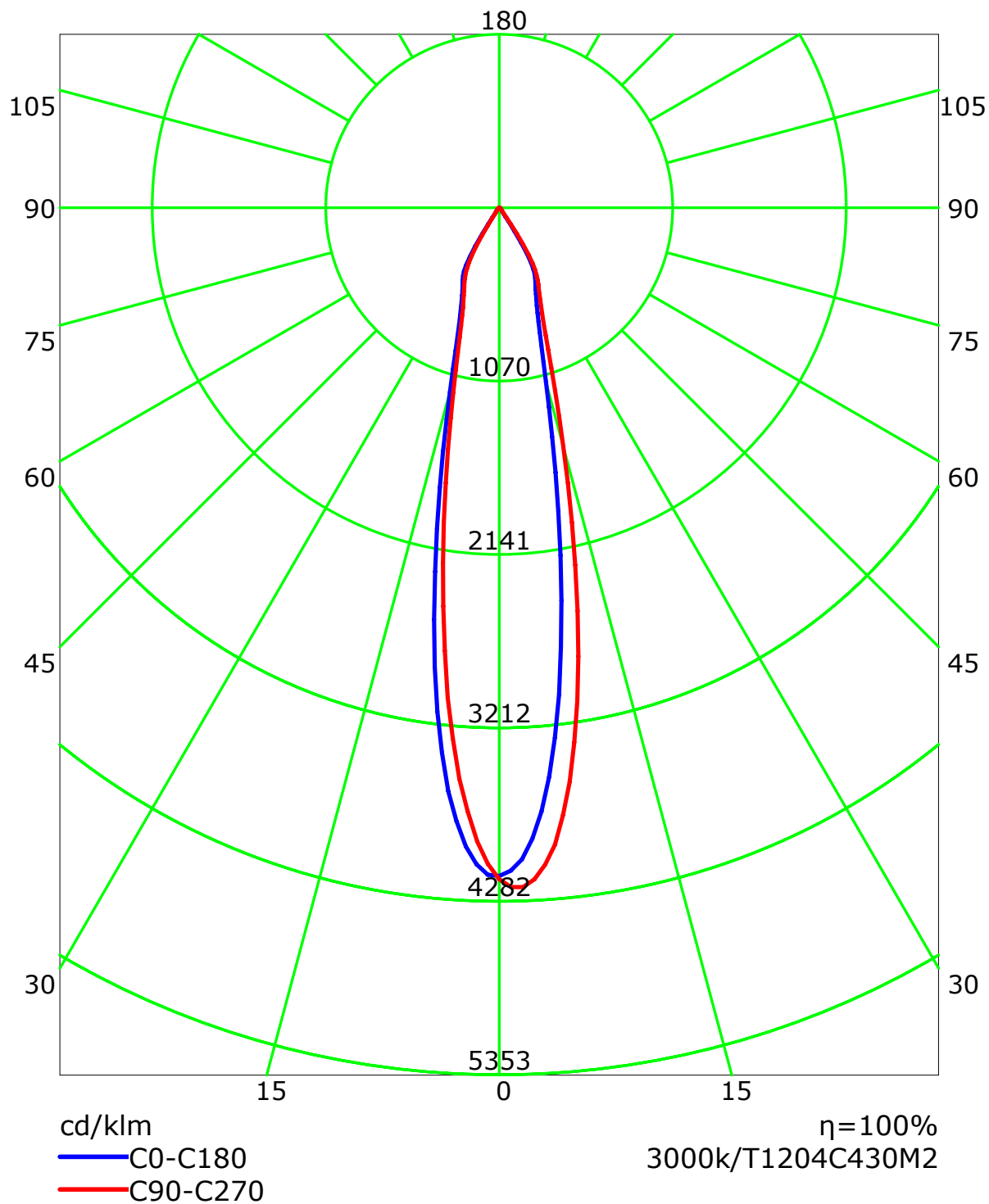
Luminous Intensity Distribution Curve



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:

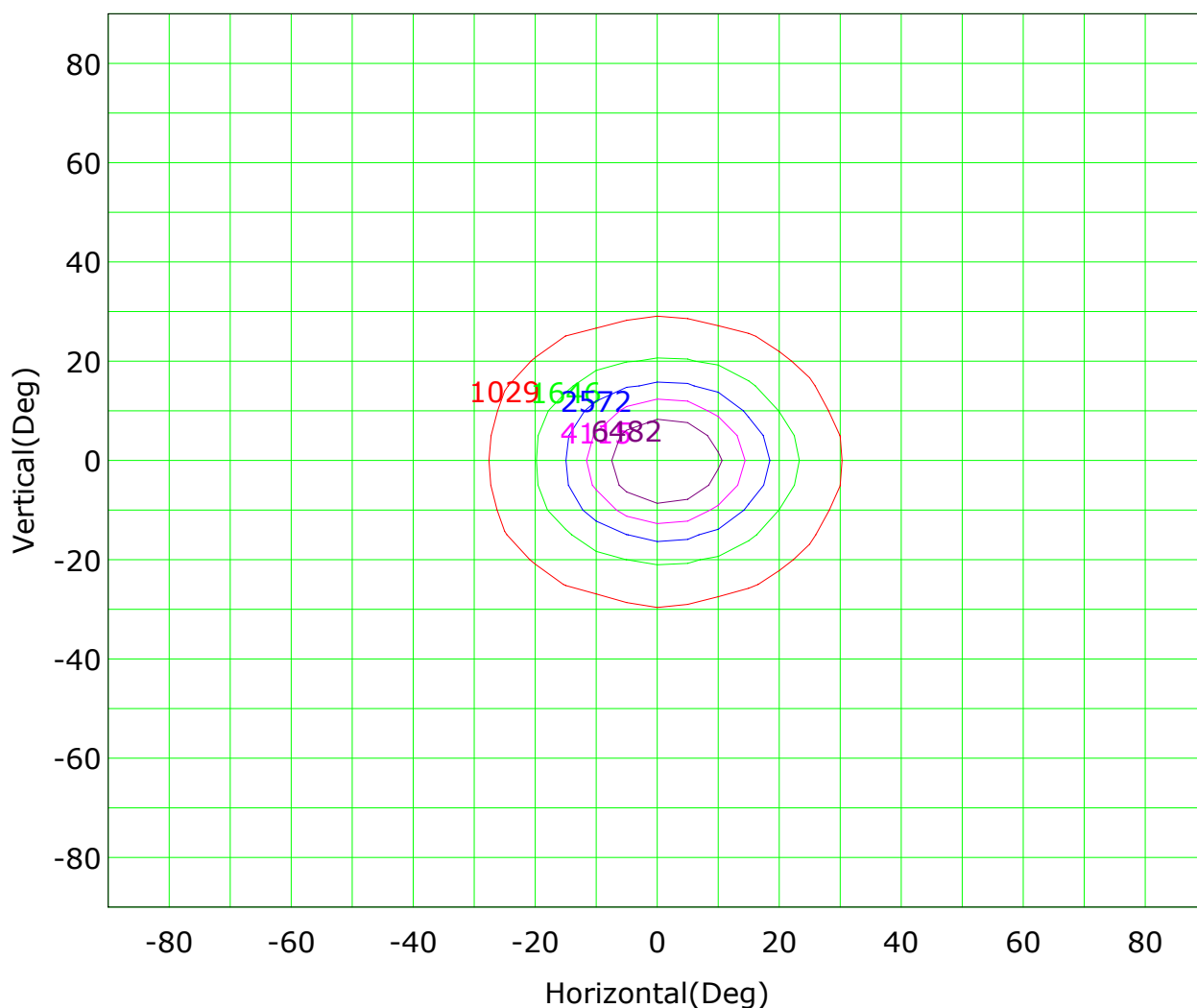
## Luminous Intensity Distribution Curve(cd/klm)



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)



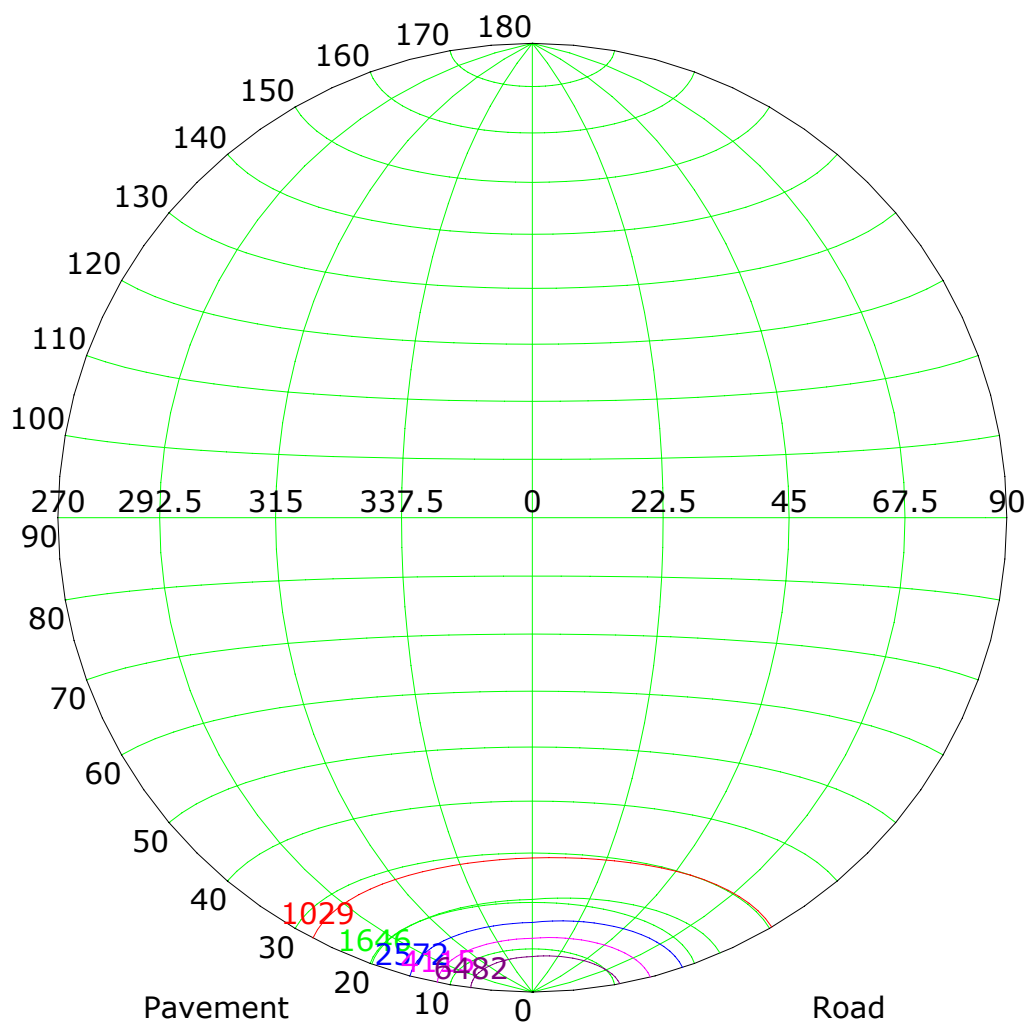
Imax (100%): 10288 cd

( 10%): 1029 cd	( 16%): 1646 cd
( 25%): 2572 cd	( 40%): 4115 cd
( 63%): 6482 cd	(100%): 10288 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)

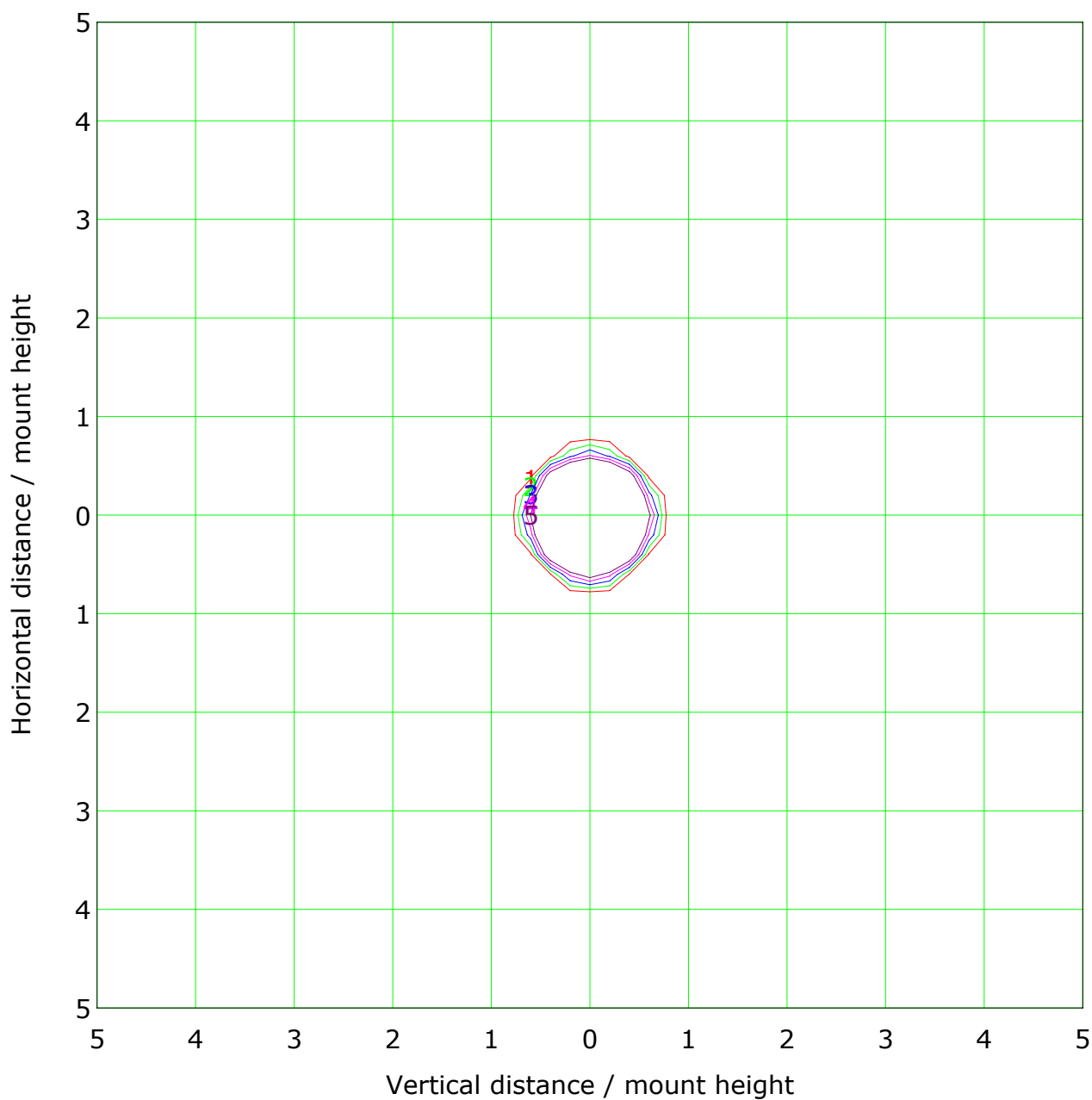


Imax (100%): 10288 cd

( 10%): 1029 cd  
( 25%): 2572 cd  
( 63%): 6482 cd

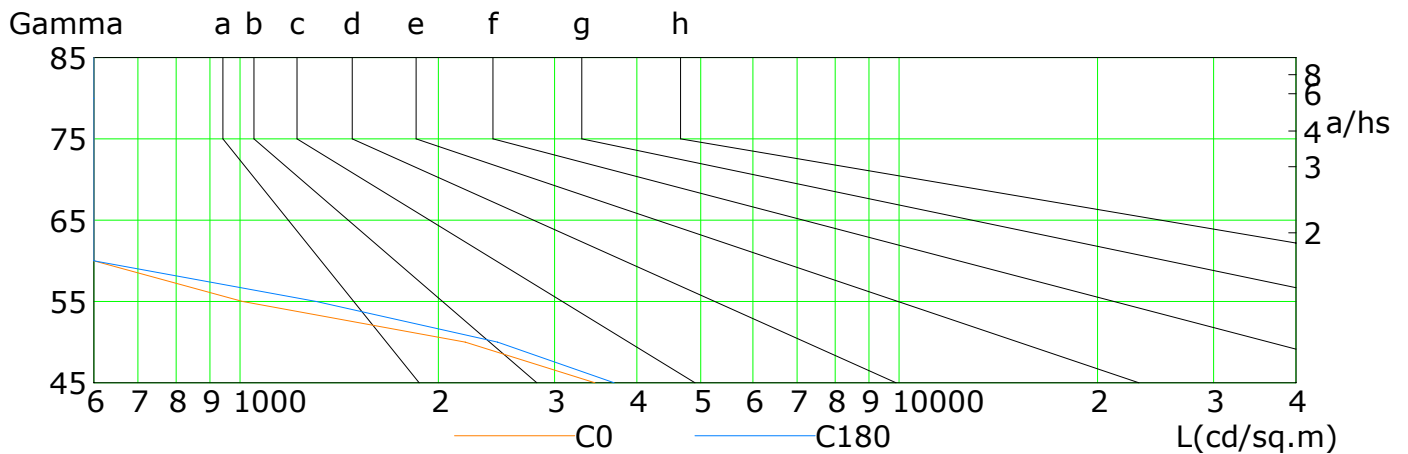
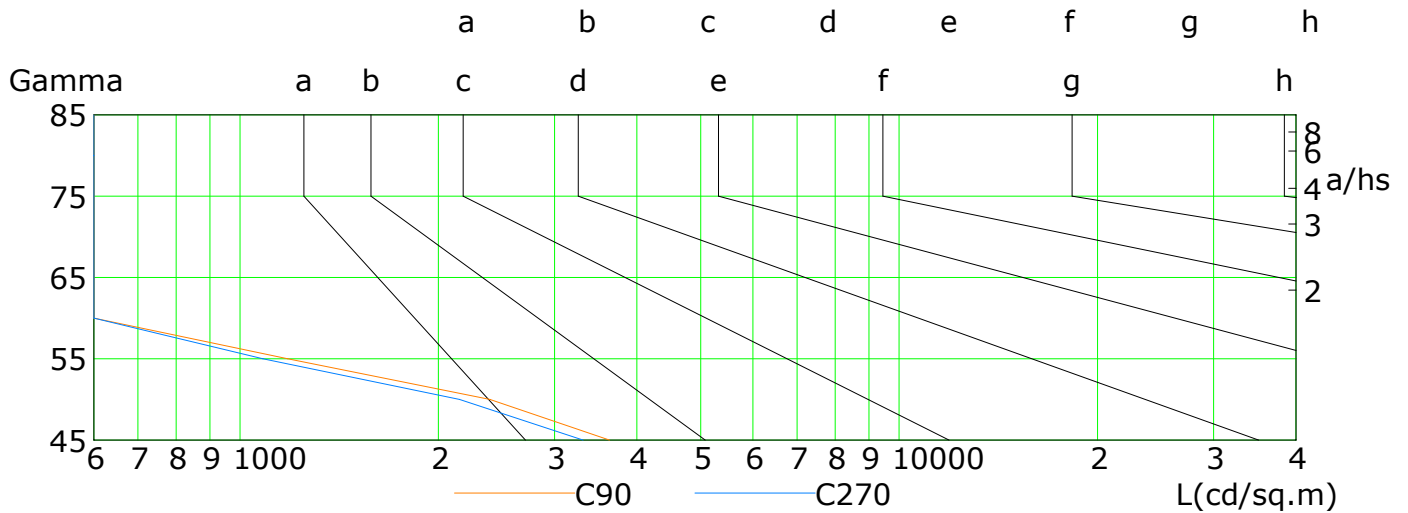
( 16%): 1646 cd  
( 40%): 4115 cd  
(100%): 10288 cd

## IsoLux Plot



## 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	3454	2196	1009	0	0	0	0	0	0
C90	3634	2394	1181	0	0	0	0	0	0
C180	3694	2460	1305	0	0	0	0	0	0
C270	3315	2152	1083	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

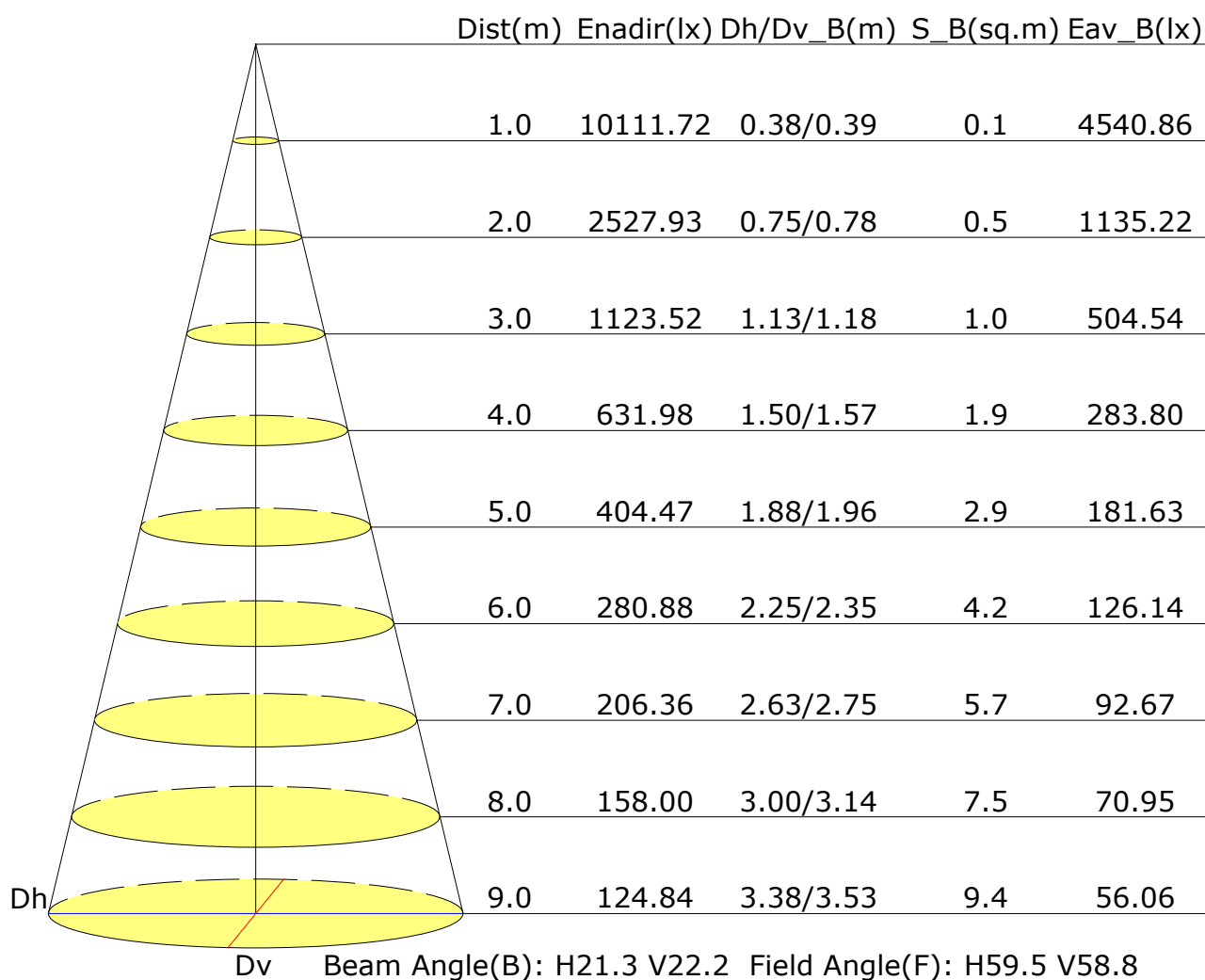
Humidity:

Inspector:

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Page 7 of 16 Pages

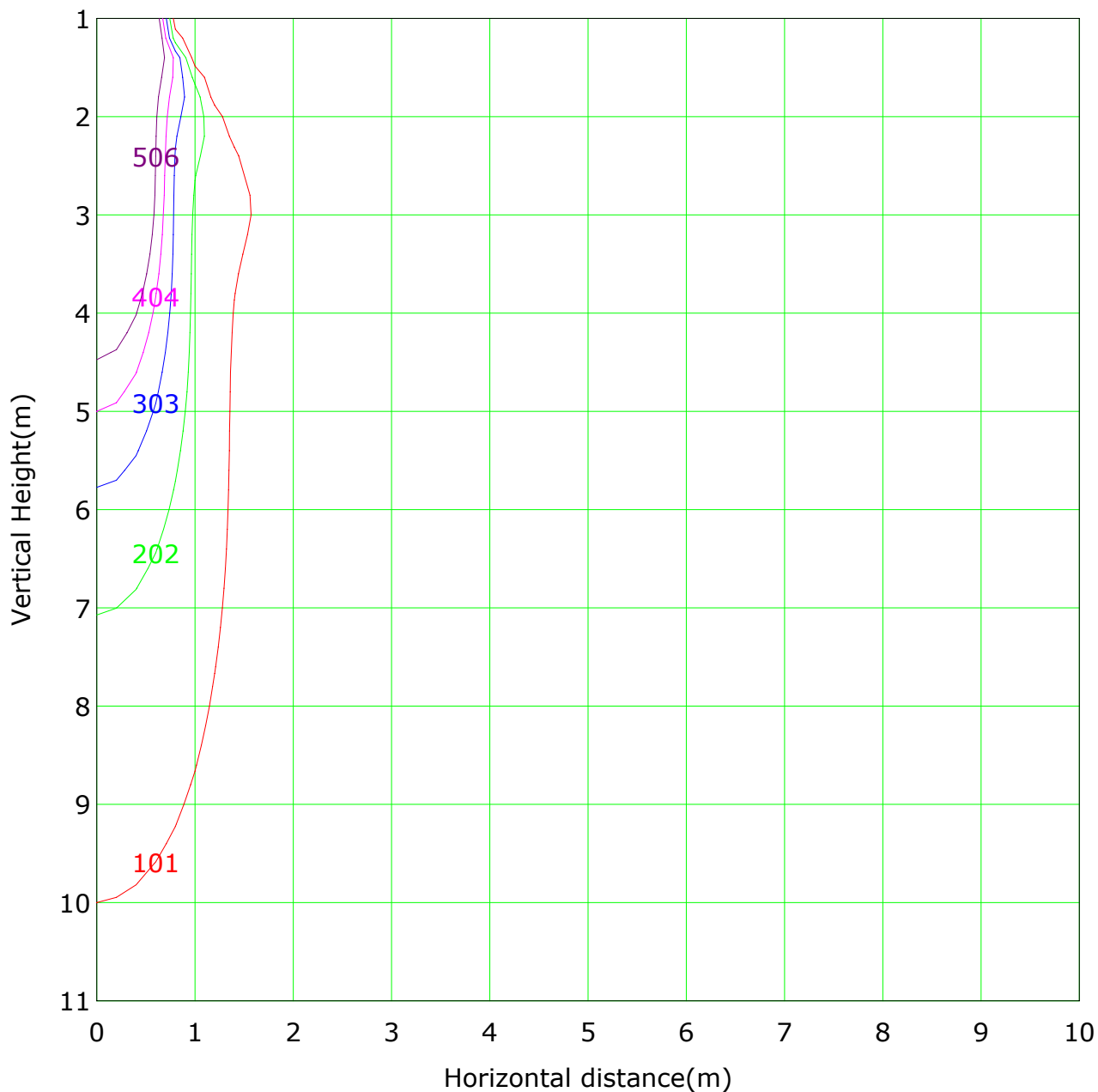
## Illuminance at a Distance



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



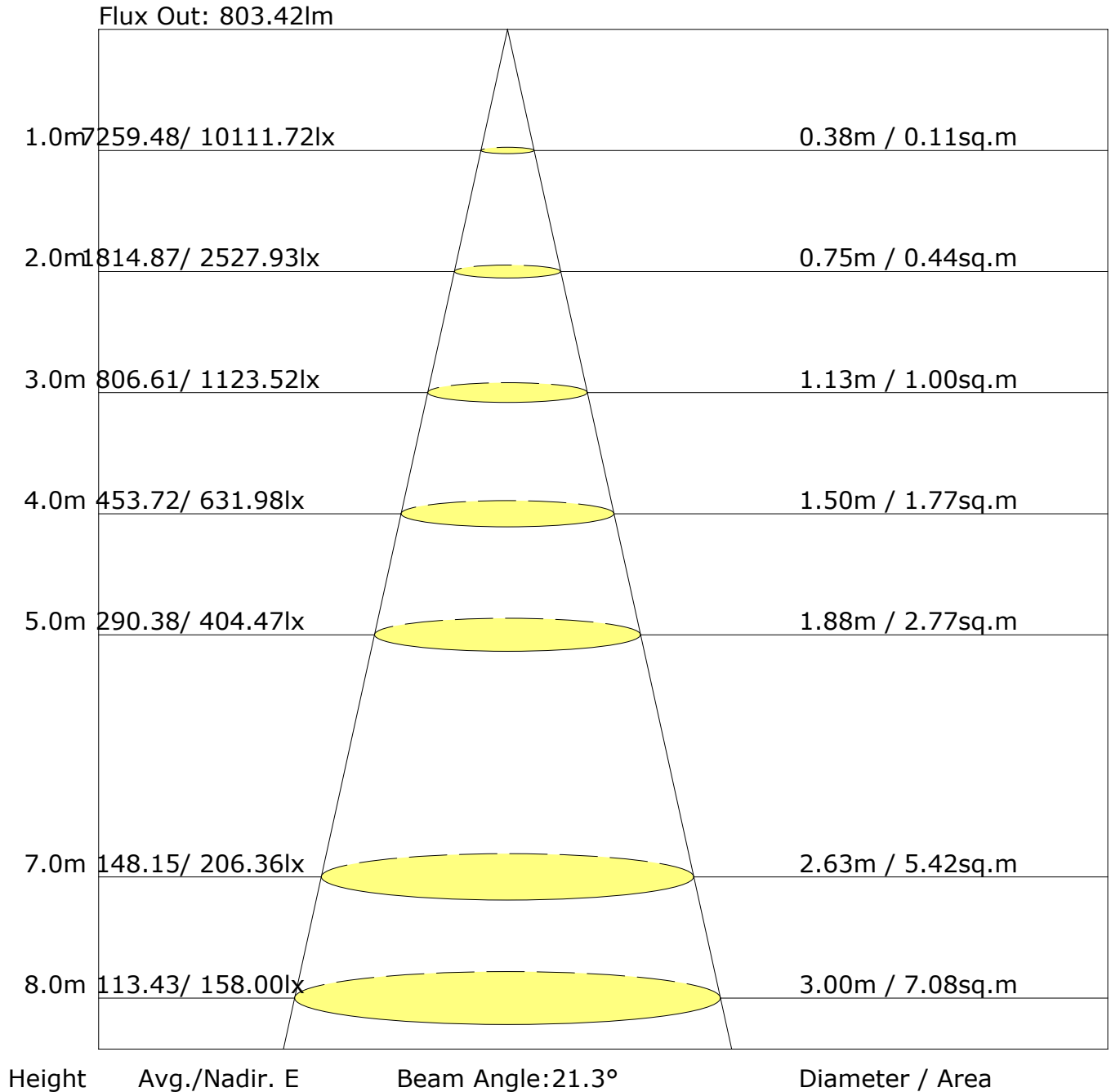
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 10111.7 lx

( 1%): 101.1 lx  
( 3%): 303.4 lx  
( 5%): 505.6 lx

( 2%): 202.2 lx  
( 4%): 404.5 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	-15.7	-14.8	-15.3	-14.5	-14.2	-9.1	-8.2	-8.7	-7.9	-7.6	
3H	-15.9	-15.1	-15.5	-14.8	-14.4	-9.3	-8.5	-8.9	-8.2	-7.8	
4H	-16.0	-15.3	-15.6	-14.9	-14.6	-9.4	-8.7	-9.0	-8.4	-8.0	
6H	-16.1	-15.5	-15.7	-15.1	-14.7	-9.6	-8.9	-9.1	-8.5	-8.1	
8H	-16.2	-15.6	-15.8	-15.2	-14.8	-9.6	-9.0	-9.2	-8.6	-8.2	
12H	-16.3	-15.7	-15.8	-15.3	-14.9	-9.7	-9.1	-9.2	-8.7	-8.3	
X=4H Y=2H	-16.0	-15.3	-15.6	-14.9	-14.6	-9.4	-8.7	-9.0	-8.4	-8.0	
3H	-16.3	-15.7	-15.8	-15.3	-14.8	-9.7	-9.1	-9.2	-8.7	-8.3	
4H	-16.4	-15.9	-15.9	-15.4	-15.0	-9.8	-9.3	-9.4	-8.8	-8.4	
6H	-16.5	-16.1	-16.0	-15.6	-15.1	-9.9	-9.5	-9.4	-9.0	-8.5	
8H	-16.6	-16.2	-16.1	-15.7	-15.2	-10.0	-9.6	-9.5	-9.1	-8.6	
12H	-16.7	-16.3	-16.2	-15.8	-15.3	-10.1	-9.7	-9.6	-9.2	-8.7	
X=8H Y=4H	-16.6	-16.2	-16.1	-15.7	-15.2	-10.0	-9.6	-9.5	-9.1	-8.6	
6H	-16.7	-16.4	-16.2	-15.9	-15.4	-10.1	-9.8	-9.6	-9.3	-8.8	
8H	-16.8	-16.5	-16.3	-16.0	-15.5	-10.2	-9.9	-9.7	-9.4	-8.9	
12H	-16.9	-16.6	-16.3	-16.1	-15.5	-10.3	-10.0	-9.7	-9.5	-8.9	
X=12H Y=4H	-16.7	-16.3	-16.2	-15.8	-15.3	-10.1	-9.7	-9.6	-9.2	-8.7	
6H	-16.8	-16.5	-16.3	-16.0	-15.5	-10.2	-9.9	-9.7	-9.4	-8.9	
8H	-16.9	-16.6	-16.3	-16.1	-15.5	-10.3	-10.0	-9.7	-9.5	-8.9	

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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Page 11 of 16 Pages

## 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	10110.9	9.7	9.7	0.39	0.39
1.0-2.0	10004.0	28.7	38.4	1.17	1.57
2.0-3.0	9782.1	46.8	85.2	1.91	3.48
3.0-4.0	9456.5	63.3	148.5	2.58	6.06
4.0-5.0	9042.1	77.8	226.3	3.17	9.23
5.0-6.0	8538.5	89.7	316.0	3.66	12.89
6.0-7.0	7958.8	98.8	414.8	4.03	16.93
7.0-8.0	7323.4	104.8	519.7	4.28	21.20
8.0-9.0	6663.1	108.0	627.7	4.41	25.61
9.0-10.0	5998.9	108.6	736.2	4.43	30.04
10.0-11.0	5343.4	106.8	843.0	4.36	34.40
11.0-12.0	4721.1	103.2	946.2	4.21	38.61
12.0-13.0	4148.0	98.5	1044.7	4.02	42.63
13.0-14.0	3634.9	93.1	1137.7	3.80	46.42
14.0-15.0	3186.0	87.5	1225.2	3.57	49.99
15.0-16.0	2805.3	82.2	1307.4	3.35	53.35
16.0-17.0	2489.4	77.5	1385.0	3.16	56.51
17.0-18.0	2229.5	73.5	1458.5	3.00	59.51
18.0-19.0	2018.0	70.2	1528.7	2.87	62.37
19.0-20.0	1847.6	67.6	1596.3	2.76	65.13
20.0-21.0	1710.9	65.7	1662.0	2.68	67.81
21.0-22.0	1598.9	64.3	1726.3	2.62	70.44
22.0-23.0	1505.4	63.2	1789.5	2.58	73.01
23.0-24.0	1425.9	62.4	1851.8	2.54	75.56
24.0-25.0	1357.4	61.7	1913.6	2.52	78.08
25.0-26.0	1296.4	61.2	1974.8	2.50	80.57
26.0-27.0	1239.1	60.6	2035.4	2.47	83.05
27.0-28.0	1178.5	59.7	2095.1	2.43	85.48
28.0-29.0	1107.6	58.0	2153.0	2.36	87.85
29.0-30.0	1018.2	55.0	2208.0	2.24	90.09
30.0-31.0	900.1	50.1	2258.1	2.04	92.14
31.0-32.0	746.4	42.8	2300.9	1.74	93.88
32.0-33.0	565.2	33.3	2334.2	1.36	95.24
33.0-34.0	390.7	23.6	2357.8	0.96	96.20
34.0-35.0	253.7	15.8	2373.6	0.64	96.85
35.0-36.0	164.6	10.5	2384.0	0.43	97.27

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:

Page 12 of 16 Pages

## 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	115.9	7.6	2391.6	0.31	97.58
37.0-38.0	91.6	6.1	2397.7	0.25	97.83
38.0-39.0	78.8	5.4	2403.1	0.22	98.05
39.0-40.0	70.2	4.9	2408.0	0.20	98.25
40.0-41.0	63.8	4.5	2412.5	0.19	98.44
41.0-42.0	57.9	4.2	2416.8	0.17	98.61
42.0-43.0	52.7	3.9	2420.7	0.16	98.77
43.0-44.0	48.2	3.6	2424.3	0.15	98.92
44.0-45.0	44.1	3.4	2427.7	0.14	99.05
45.0-46.0	40.5	3.2	2430.8	0.13	99.18
46.0-47.0	37.0	2.9	2433.8	0.12	99.30
47.0-48.0	33.5	2.7	2436.5	0.11	99.41
48.0-49.0	30.1	2.5	2439.0	0.10	99.52
49.0-50.0	26.7	2.2	2441.2	0.09	99.61
50.0-51.0	23.6	2.0	2443.2	0.08	99.69
51.0-52.0	20.7	1.8	2445.0	0.07	99.76
52.0-53.0	17.7	1.5	2446.5	0.06	99.82
53.0-54.0	15.1	1.3	2447.8	0.05	99.88
54.0-55.0	12.5	1.1	2449.0	0.05	99.92
55.0-56.0	9.7	0.9	2449.8	0.04	99.96
56.0-57.0	6.7	0.6	2450.4	0.03	99.98
57.0-58.0	3.5	0.3	2450.8	0.01	100.00
58.0-59.0	0.8	0.1	2450.8	0.00	100.00
59.0-60.0	0.0	0.0	2450.8	0.00	100.00
60.0-61.0	0.0	0.0	2450.8	0.00	100.00
61.0-62.0	0.0	0.0	2450.8	0.00	100.00
62.0-63.0	0.0	0.0	2450.8	0.00	100.00
63.0-64.0	0.0	0.0	2450.8	0.00	100.00
64.0-65.0	0.0	0.0	2450.8	0.00	100.00
65.0-66.0	0.0	0.0	2450.8	0.00	100.00
66.0-67.0	0.0	0.0	2450.8	0.00	100.00
67.0-68.0	0.0	0.0	2450.8	0.00	100.00
68.0-69.0	0.0	0.0	2450.8	0.00	100.00
69.0-70.0	0.0	0.0	2450.8	0.00	100.00
70.0-71.0	0.0	0.0	2450.8	0.00	100.00
71.0-72.0	0.0	0.0	2450.8	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:

Page 14 of 16 Pages

## Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	10111.7	10162.1	10111.7	10162.1	10111.7					
G1.0	10033.5	10281.1	10094.1	9930.8	10033.5					
G2.0	9866.7	10288.3	9939.7	9597.5	9866.7					
G3.0	9563.4	10177.1	9677.2	9146.8	9563.4					
G4.0	9158.0	9964.3	9300.2	8665.3	9158.0					
G5.0	8649.0	9672.4	8862.8	8064.7	8649.0					
G6.0	8063.9	9240.8	8292.5	7461.4	8063.9					
G7.0	7421.6	8751.9	7683.1	6754.9	7421.6					
G8.0	6706.0	8166.1	7013.1	6090.9	6706.0					
G9.0	6017.8	7555.2	6309.6	5446.4	6017.8					
G10.0	5341.8	6893.1	5592.6	4834.3	5341.8					
G11.0	4679.7	6215.6	4944.8	4244.9	4679.7					
G12.0	4094.8	5529.4	4325.8	3733.8	4094.8					
G13.0	3557.3	4889.4	3784.6	3268.5	3557.3					
G14.0	3109.6	4289.8	3294.5	2885.6	3109.6					
G15.0	2729.3	3742.9	2886.3	2550.1	2729.3					
G16.0	2431.2	3281.6	2541.2	2279.9	2431.2					
G17.0	2179.3	2888.4	2262.3	2051.4	2179.3					
G18.0	1987.2	2551.3	2042.8	1873.1	1987.2					
G19.0	1824.4	2272.6	1868.3	1724.7	1824.4					
G20.0	1696.1	2056.4	1732.3	1605.6	1696.1					
G21.0	1586.5	1875.3	1618.5	1516.6	1586.5					
G22.0	1500.9	1732.6	1523.6	1436.9	1500.9					
G23.0	1421.9	1619.7	1439.6	1368.4	1421.9					
G24.0	1354.6	1522.1	1374.4	1306.4	1354.6					
G25.0	1297.1	1438.6	1314.8	1251.3	1297.1					
G26.0	1247.0	1365.3	1268.0	1189.5	1247.0					
G27.0	1198.8	1302.8	1218.4	1123.4	1198.8					
G28.0	1140.8	1234.8	1167.1	1041.6	1140.8					
G29.0	1070.2	1164.2	1100.7	941.3	1070.2					
G30.0	965.2	1079.3	1006.5	818.0	965.2					
G31.0	816.5	977.8	865.5	672.4	816.5					
G32.0	622.5	837.8	685.5	492.7	622.5					
G33.0	414.5	662.2	475.1	331.2	414.5					
G34.0	252.2	479.9	299.2	211.6	252.2					
G35.0	158.9	308.3	183.5	136.3	158.9					
G36.0	113.1	189.9	123.8	102.6	113.1					

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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Page 15 of 16 Pages

## Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G37.0	91.6	122.7	96.9	86.6	91.6					
G38.0	80.7	95.2	82.6	76.6	80.7					
G39.0	71.3	80.9	73.7	69.2	71.3					
G40.0	65.4	71.1	67.5	62.8	65.4					
G41.0	59.9	65.1	61.3	57.0	59.9					
G42.0	53.9	58.2	55.6	52.3	53.9					
G43.0	49.4	52.7	51.5	47.7	49.4					
G44.0	44.9	48.0	47.5	43.7	44.9					
G45.0	41.3	43.4	44.1	39.6	41.3					
G46.0	37.9	39.6	41.0	36.8	37.9					
G47.0	33.9	36.8	36.3	33.9	33.9					
G48.0	30.5	32.2	34.1	30.5	30.5					
G49.0	27.2	29.4	30.5	26.5	27.2					
G50.0	23.9	26.0	26.7	23.4	23.9					
G51.0	21.0	22.9	23.9	20.8	21.0					
G52.0	17.7	19.8	21.7	17.9	17.7					
G53.0	14.3	16.9	17.9	15.8	14.3					
G54.0	12.2	14.1	16.0	13.4	12.2					
G55.0	9.8	11.4	12.6	10.5	9.8					
G56.0	6.4	8.8	10.7	6.9	6.4					
G57.0	3.8	6.2	7.6	3.3	3.8					
G58.0	0.0	3.1	3.6	0.0	0.0					
G59.0	0.0	0.0	0.0	0.0	0.0					
G60.0	0.0	0.0	0.0	0.0	0.0					
G61.0	0.0	0.0	0.0	0.0	0.0					
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:

Page 16 of 16 Pages

## 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: