

Tel:  
Fax:

Page 1 of 16 Pages

Report No.:

Test Time: 2017-08-01 11:26

## Luminaire Property

Luminaire Manufacturer:  
Luminaire Category: LED DownLight  
Lamp Catalog: 3000k  
Luminous Length (mm): 130  
Voltage: 219.9 V  
Power: 55.90 W

Luminaire Description: DLC0555-B830 24D  
Lamp Description: T1208C430M2  
Luminous Width (mm): 130  
Current: 0.311 A  
Power Factor: 0.816

## Photometric Results

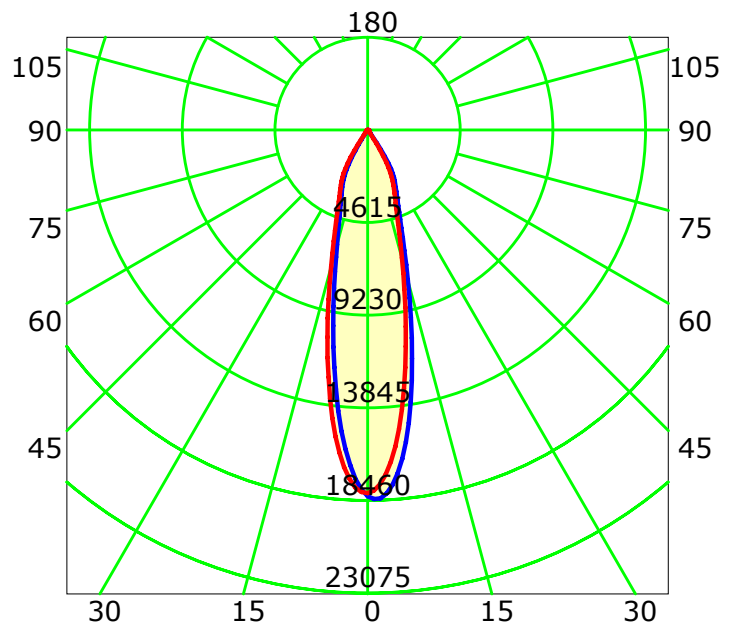
CIE Class: Direct  
Measurement Flux: 5286.4 lm  
Downward Ratio: 100%  
Field Angle: H61.6 V61.5  
Luminaire Efficacy Rating (LER): 95  
Max. Intensity: 18385.65 cd

Total Rated Lamp Lumens: 5286.4 lm  
Efficiency: 100%  
Upward Ratio: 0%  
Beam Angle: H24.2 V24.6  
Central Intensity: 18239.13 cd  
Pos of Max. Intensity: H0 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



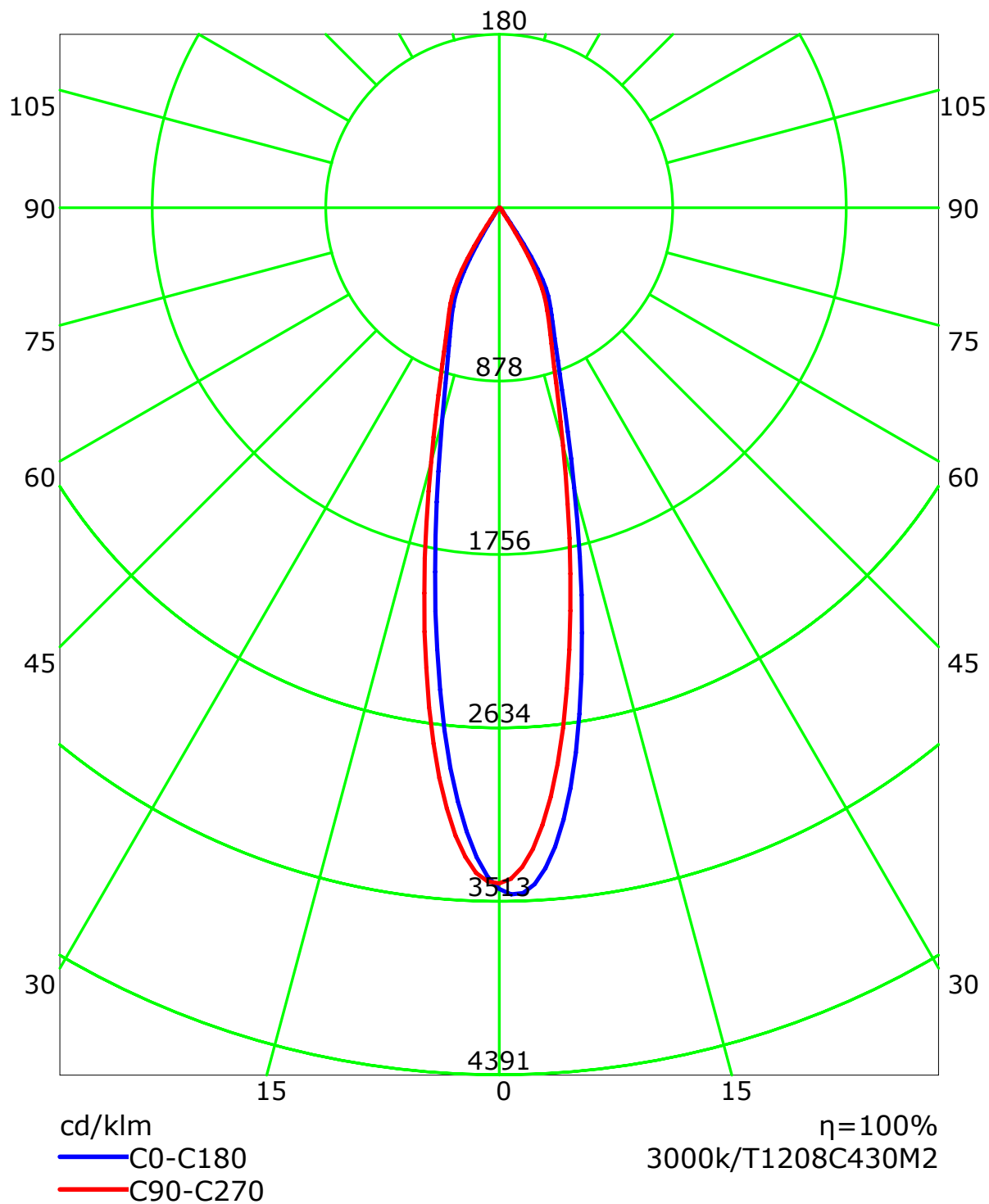
Unit: cd

— 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:

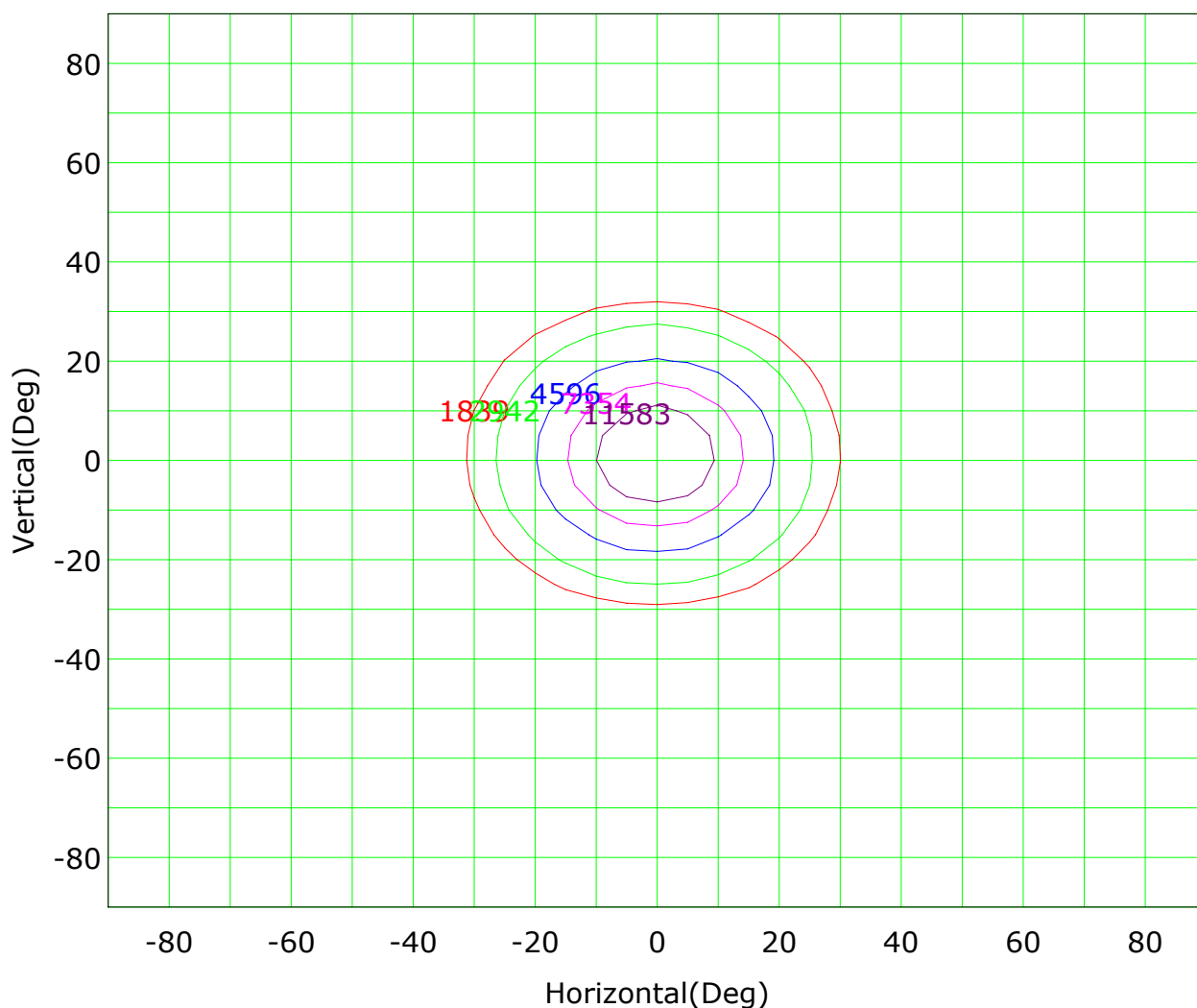
## Luminous Intensity Distribution Curve(cd/klm)



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:

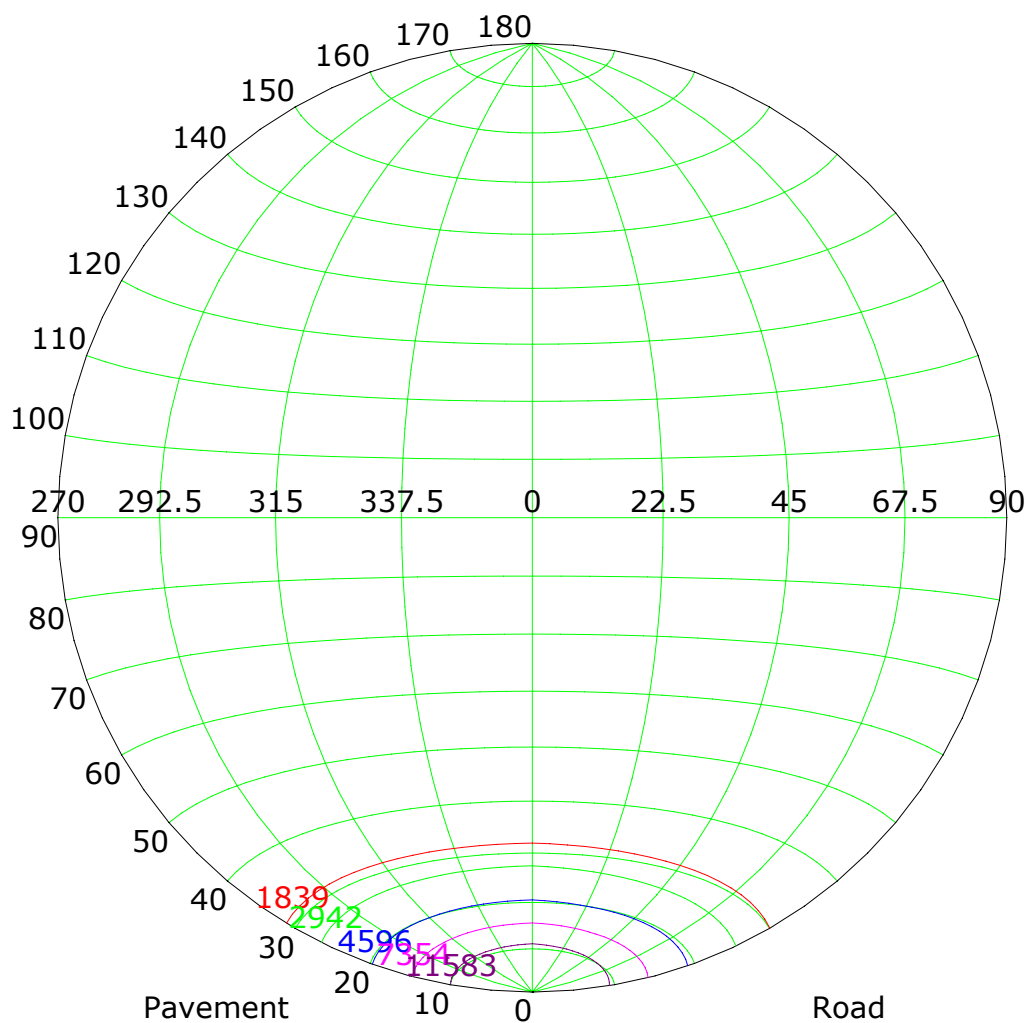
## Isocandela (rectangle)



Imax (100%): 18386 cd

( 10%): 1839 cd	( 16%): 2942 cd
( 25%): 4596 cd	( 40%): 7354 cd
( 63%): 11583 cd	(100%): 18386 cd

## Isocandela (sphere)

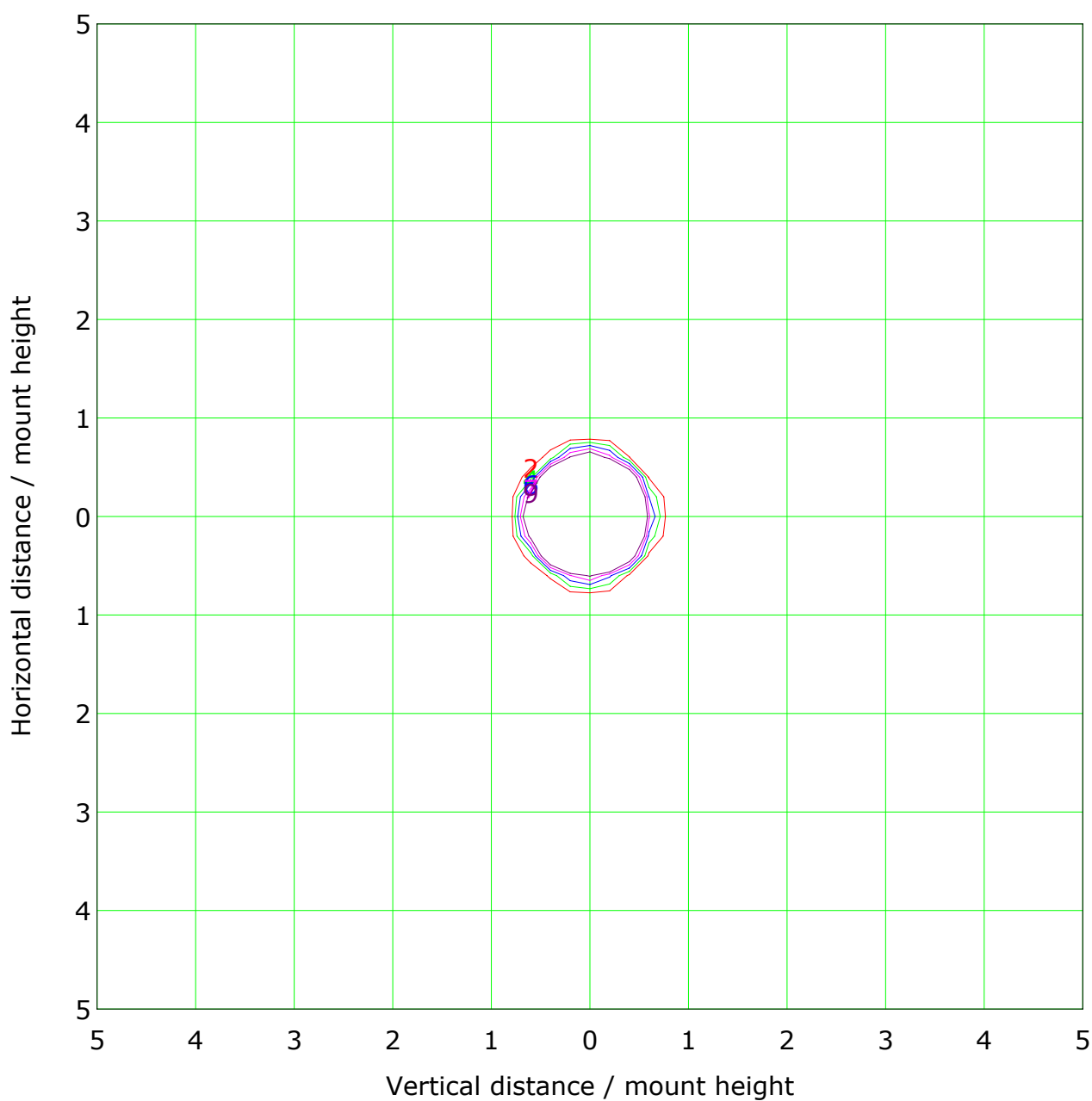


Imax (100%): 18386 cd

( 10%): 1839 cd  
( 25%): 4596 cd  
( 63%): 11583 cd

( 16%): 2942 cd  
( 40%): 7354 cd  
(100%): 18386 cd

## IsoLux Plot



Mounting Height: 10.0m    Max Lux(100%): 183.8 lx

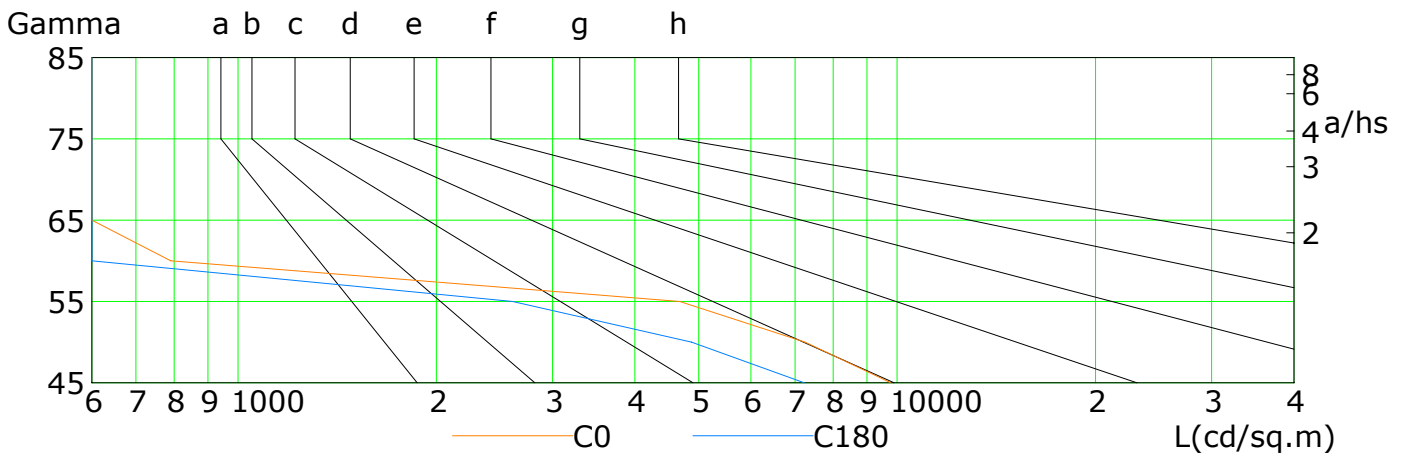
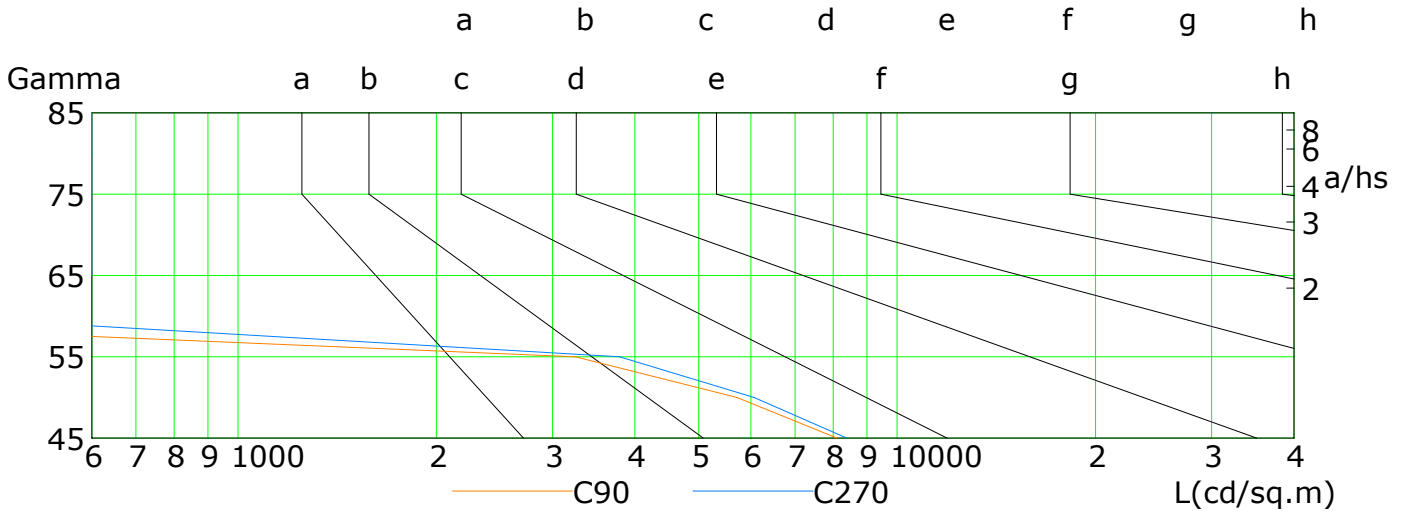
( 1%): 1.8 lx	( 2%): 3.7 lx
( 3%): 5.5 lx	( 4%): 7.4 lx
( 5%): 9.2 lx	

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	9784	7248	4677	791	0	0	0	0	0
C90	8107	5711	3250	112	0	0	0	0	0
C180	7228	4876	2609	0	0	0	0	0	0
C270	8387	6063	3791	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

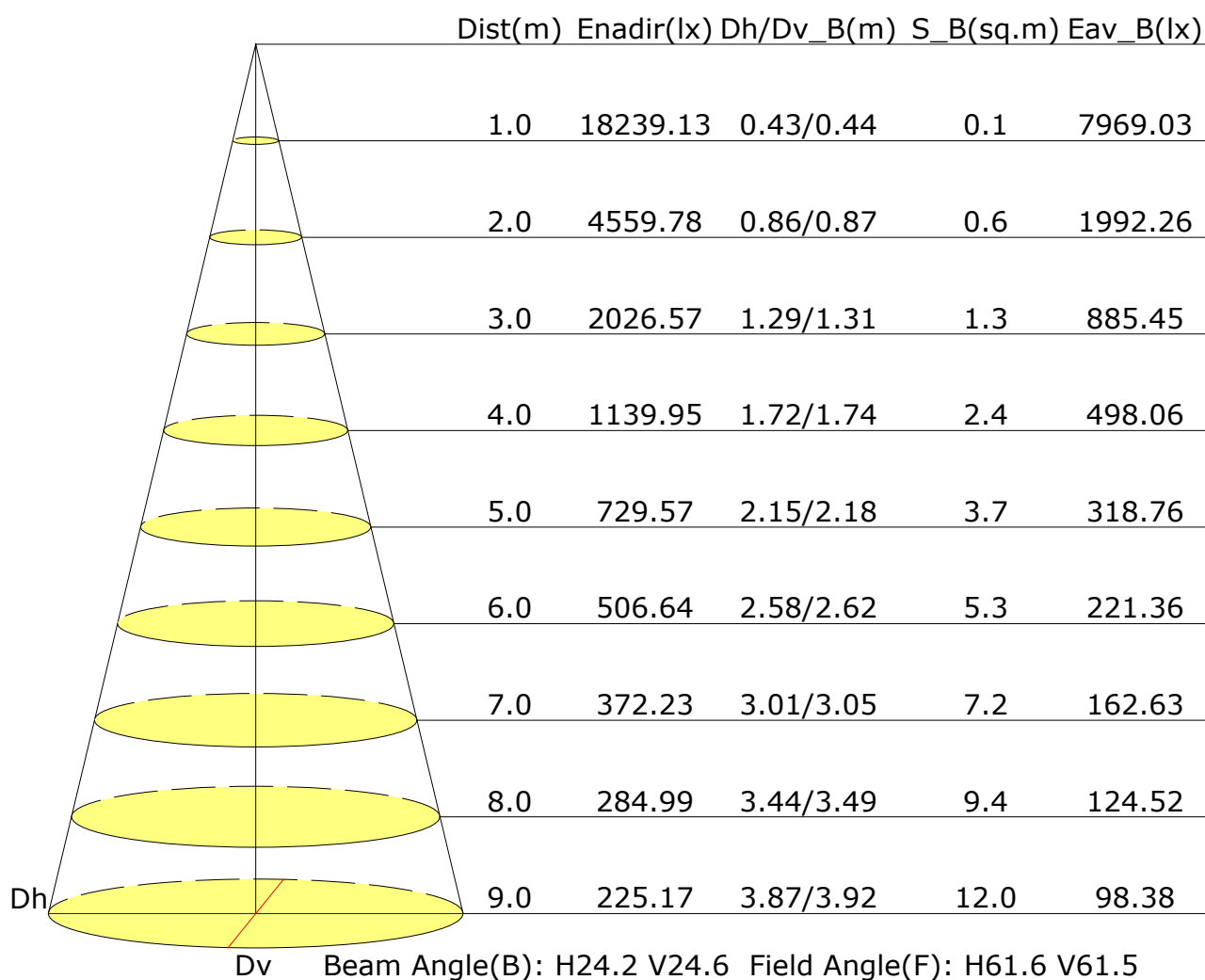
Humidity:

Inspector:

Tel:  
Fax:

Page 7 of 16 Pages

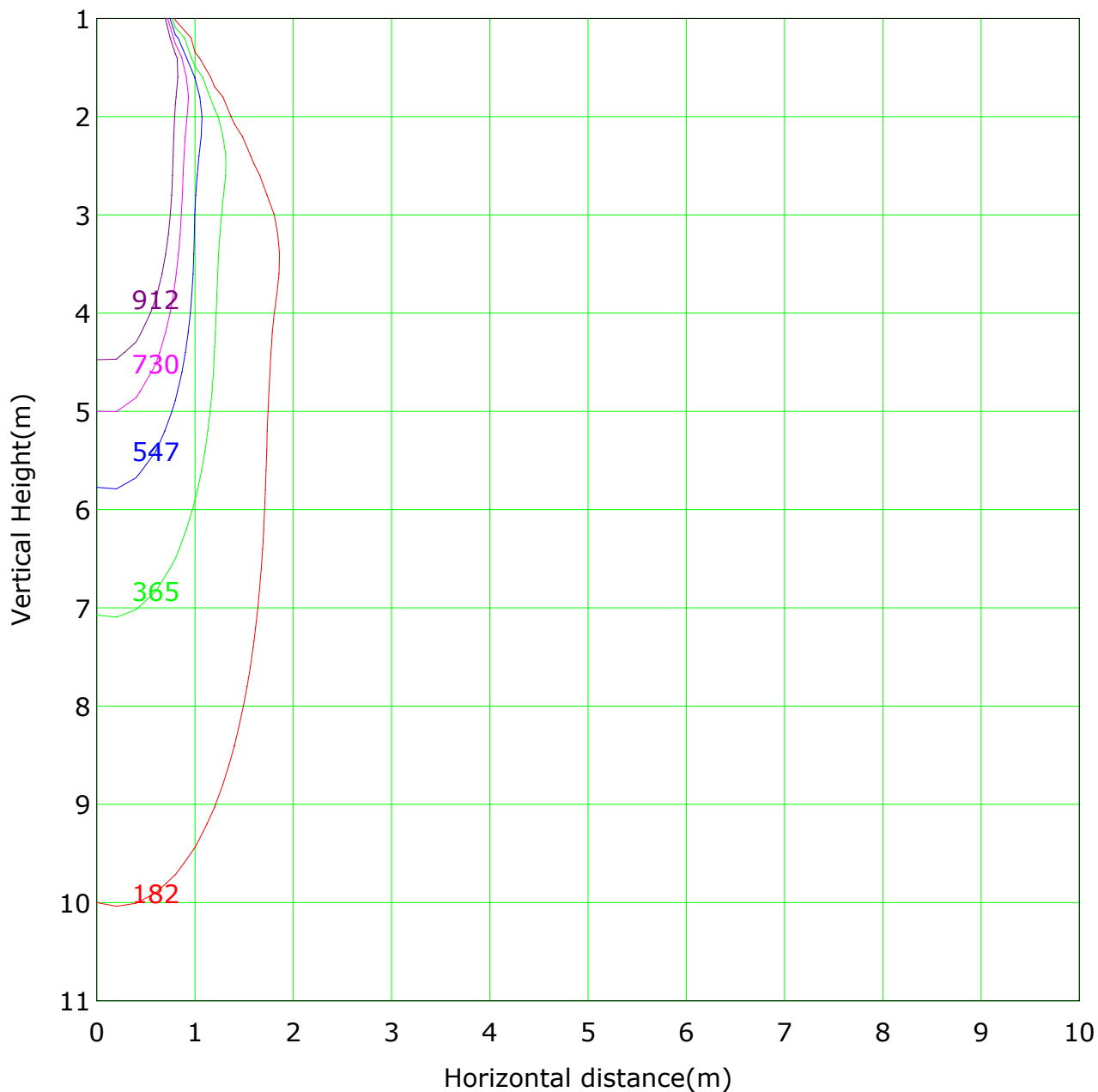
## Illuminance at a Distance



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



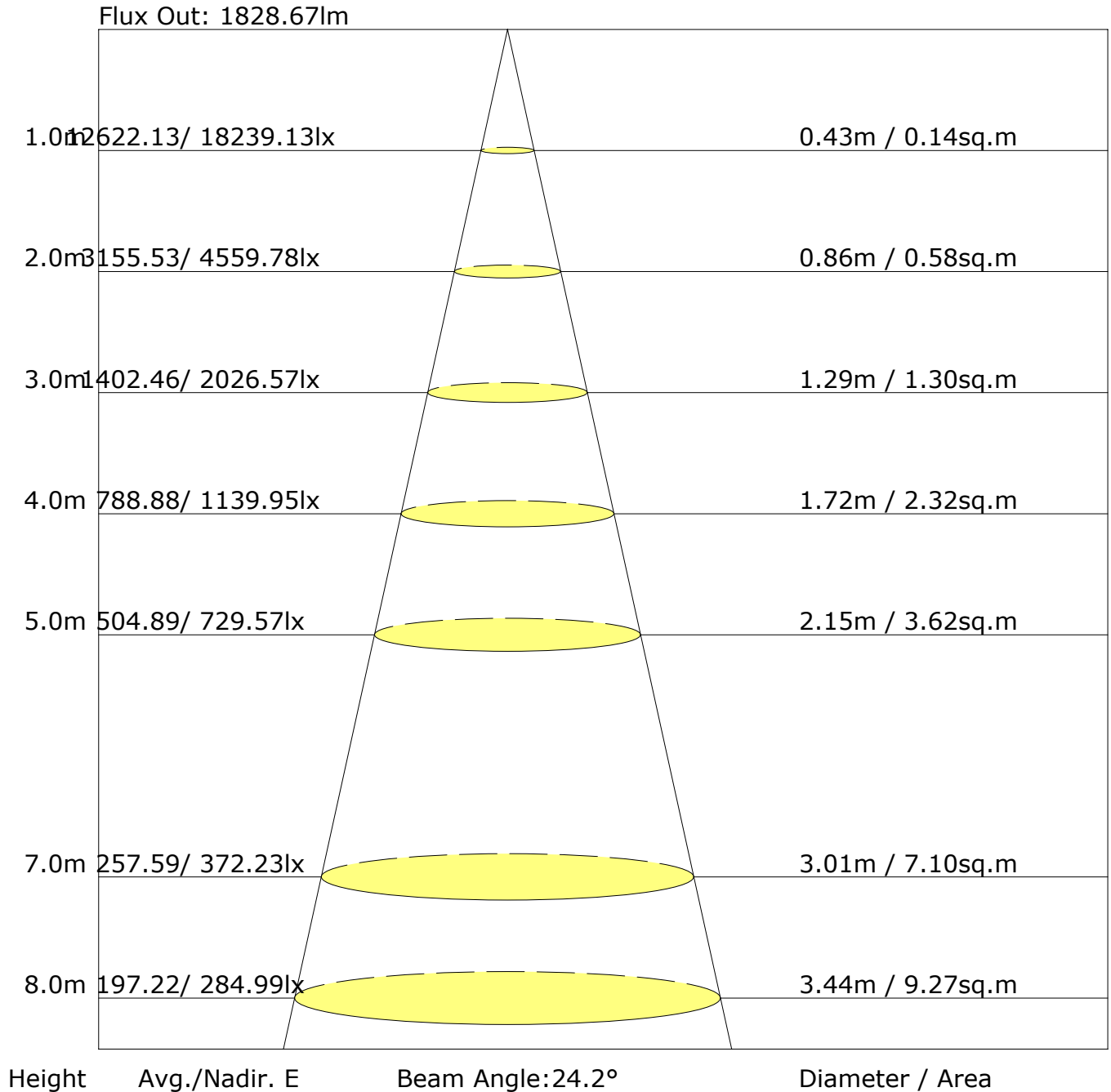
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 18239.1 lx

( 1%): 182.4 lx  
( 3%): 547.2 lx  
( 5%): 912.0 lx

( 2%): 364.8 lx  
( 4%): 729.6 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	-1.3	-0.3	-0.9	-0.0	0.3	-6.6	-5.7	-6.2	-5.4	-5.1	
3H	-1.5	-0.7	-1.1	-0.3	0.0	-6.8	-6.0	-6.4	-5.7	-5.3	
4H	-1.6	-0.8	-1.2	-0.5	-0.1	-6.9	-6.2	-6.5	-5.8	-5.5	
6H	-1.7	-1.0	-1.3	-0.6	-0.3	-7.1	-6.4	-6.6	-6.0	-5.6	
8H	-1.8	-1.1	-1.3	-0.7	-0.3	-7.1	-6.5	-6.7	-6.1	-5.7	
12H	-1.8	-1.2	-1.4	-0.8	-0.4	-7.2	-6.6	-6.7	-6.2	-5.8	
X=4H Y=2H	-1.6	-0.8	-1.2	-0.5	-0.1	-6.9	-6.2	-6.5	-5.8	-5.5	
3H	-1.8	-1.2	-1.4	-0.8	-0.4	-7.2	-6.6	-6.7	-6.2	-5.7	
4H	-1.9	-1.4	-1.5	-1.0	-0.5	-7.3	-6.8	-6.9	-6.3	-5.9	
6H	-2.1	-1.6	-1.6	-1.1	-0.7	-7.4	-7.0	-6.9	-6.5	-6.0	
8H	-2.1	-1.7	-1.6	-1.3	-0.8	-7.5	-7.1	-7.0	-6.6	-6.1	
12H	-2.2	-1.8	-1.7	-1.3	-0.9	-7.6	-7.2	-7.1	-6.7	-6.2	
X=8H Y=4H	-2.1	-1.7	-1.6	-1.3	-0.8	-7.5	-7.1	-7.0	-6.6	-6.1	
6H	-2.3	-1.9	-1.7	-1.4	-0.9	-7.6	-7.3	-7.1	-6.8	-6.3	
8H	-2.3	-2.0	-1.8	-1.5	-1.0	-7.7	-7.4	-7.2	-6.9	-6.4	
12H	-2.4	-2.1	-1.9	-1.6	-1.1	-7.8	-7.5	-7.2	-7.0	-6.4	
X=12H Y=4H	-2.2	-1.8	-1.7	-1.3	-0.9	-7.6	-7.2	-7.1	-6.7	-6.2	
6H	-2.3	-2.0	-1.8	-1.6	-1.0	-7.7	-7.4	-7.2	-6.9	-6.4	
8H	-2.4	-2.1	-1.9	-1.6	-1.1	-7.8	-7.5	-7.2	-7.0	-6.4	

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:  
Inspector:

Tel:  
Fax:

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	18120.2	17.3	17.3	0.33	0.33
1.0-2.0	17943.8	51.5	68.8	0.97	1.30
2.0-3.0	17586.9	84.1	153.0	1.59	2.89
3.0-4.0	17065.4	114.2	267.2	2.16	5.05
4.0-5.0	16408.8	141.2	408.4	2.67	7.73
5.0-6.0	15632.2	164.3	572.7	3.11	10.83
6.0-7.0	14750.1	183.1	755.8	3.46	14.30
7.0-8.0	13791.8	197.4	953.2	3.73	18.03
8.0-9.0	12789.5	207.3	1160.5	3.92	21.95
9.0-10.0	11773.4	213.1	1373.6	4.03	25.98
10.0-11.0	10764.5	215.1	1588.7	4.07	30.05
11.0-12.0	9793.2	214.1	1802.8	4.05	34.10
12.0-13.0	8865.4	210.4	2013.3	3.98	38.08
13.0-14.0	7996.4	204.7	2218.0	3.87	41.96
14.0-15.0	7206.4	197.9	2415.8	3.74	45.70
15.0-16.0	6502.3	190.6	2606.4	3.60	49.30
16.0-17.0	5887.3	183.4	2789.7	3.47	52.77
17.0-18.0	5351.4	176.5	2966.2	3.34	56.11
18.0-19.0	4892.0	170.2	3136.4	3.22	59.33
19.0-20.0	4503.7	164.9	3301.3	3.12	62.45
20.0-21.0	4179.4	160.5	3461.8	3.04	65.49
21.0-22.0	3899.0	156.7	3618.5	2.96	68.45
22.0-23.0	3650.8	153.2	3771.7	2.90	71.35
23.0-24.0	3433.0	150.1	3921.8	2.84	74.19
24.0-25.0	3237.4	147.2	4069.1	2.78	76.97
25.0-26.0	3051.3	144.1	4213.1	2.72	79.70
26.0-27.0	2865.4	140.2	4353.3	2.65	82.35
27.0-28.0	2668.6	135.1	4488.4	2.56	84.91
28.0-29.0	2446.9	128.0	4616.5	2.42	87.33
29.0-30.0	2186.0	118.0	4734.5	2.23	89.56
30.0-31.0	1886.5	105.0	4839.5	1.99	91.55
31.0-32.0	1556.8	89.2	4928.7	1.69	93.23
32.0-33.0	1213.6	71.5	5000.2	1.35	94.59
33.0-34.0	890.0	53.9	5054.1	1.02	95.61
34.0-35.0	621.7	38.6	5092.7	0.73	96.34
35.0-36.0	424.1	27.0	5119.7	0.51	96.85

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	296.4	19.3	5139.1	0.37	97.21
37.0-38.0	223.6	14.9	5154.0	0.28	97.50
38.0-39.0	184.0	12.6	5166.5	0.24	97.73
39.0-40.0	160.8	11.2	5177.8	0.21	97.95
40.0-41.0	145.0	10.3	5188.1	0.20	98.14
41.0-42.0	132.9	9.7	5197.7	0.18	98.32
42.0-43.0	122.2	9.1	5206.8	0.17	98.49
43.0-44.0	112.3	8.5	5215.3	0.16	98.65
44.0-45.0	103.9	8.0	5223.3	0.15	98.81
45.0-46.0	96.2	7.5	5230.8	0.14	98.95
46.0-47.0	88.7	7.1	5237.8	0.13	99.08
47.0-48.0	81.7	6.6	5244.4	0.12	99.21
48.0-49.0	74.8	6.1	5250.6	0.12	99.32
49.0-50.0	68.2	5.7	5256.3	0.11	99.43
50.0-51.0	61.6	5.2	5261.5	0.10	99.53
51.0-52.0	55.3	4.7	5266.2	0.09	99.62
52.0-53.0	49.1	4.3	5270.5	0.08	99.70
53.0-54.0	43.1	3.8	5274.3	0.07	99.77
54.0-55.0	37.5	3.3	5277.6	0.06	99.83
55.0-56.0	31.6	2.9	5280.5	0.05	99.89
56.0-57.0	25.7	2.3	5282.9	0.04	99.93
57.0-58.0	18.3	1.7	5284.5	0.03	99.97
58.0-59.0	11.2	1.0	5285.6	0.02	99.98
59.0-60.0	5.7	0.5	5286.1	0.01	100.00
60.0-61.0	1.8	0.2	5286.3	0.00	100.00
61.0-62.0	0.7	0.1	5286.4	0.00	100.00
62.0-63.0	0.2	0.0	5286.4	0.00	100.00
63.0-64.0	0.0	0.0	5286.4	0.00	100.00
64.0-65.0	0.0	0.0	5286.4	0.00	100.00
65.0-66.0	0.0	0.0	5286.4	0.00	100.00
66.0-67.0	0.0	0.0	5286.4	0.00	100.00
67.0-68.0	0.0	0.0	5286.4	0.00	100.00
68.0-69.0	0.0	0.0	5286.4	0.00	100.00
69.0-70.0	0.0	0.0	5286.4	0.00	100.00
70.0-71.0	0.0	0.0	5286.4	0.00	100.00
71.0-72.0	0.0	0.0	5286.4	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	18239.1	18089.3	18239.1	18089.3	18239.1					
G1.0	18385.6	17967.6	17911.8	18040.1	18385.6					
G2.0	18361.3	17665.5	17399.2	17819.2	18361.3					
G3.0	18133.7	17196.4	16721.1	17399.2	18133.7					
G4.0	17725.6	16569.3	15929.8	16848.0	17725.6					
G5.0	17172.1	15827.2	15055.1	16143.2	17172.1					
G6.0	16473.4	14971.6	14064.3	15350.5	16473.4					
G7.0	15655.9	14026.2	13004.0	14454.7	15655.9					
G8.0	14733.4	13009.2	11942.6	13508.4	14733.4					
G9.0	13720.3	11981.3	10945.2	12475.7	13720.3					
G10.0	12682.8	10956.7	9900.5	11524.5	12682.8					
G11.0	11599.5	9982.6	8955.6	10513.8	11599.5					
G12.0	10600.6	9047.7	8056.5	9588.9	10600.6					
G13.0	9581.8	8140.1	7245.7	8661.7	9581.8					
G14.0	8641.2	7352.6	6523.2	7825.1	8641.2					
G15.0	7754.9	6595.8	5911.9	7046.3	7754.9					
G16.0	6984.7	5958.2	5379.3	6387.2	6984.7					
G17.0	6270.3	5403.2	4922.1	5793.5	6270.3					
G18.0	5680.4	4932.1	4534.6	5274.8	5680.4					
G19.0	5157.9	4514.1	4217.3	4824.8	5157.9					
G20.0	4737.9	4179.5	3942.4	4455.9	4737.9					
G21.0	4386.7	3900.4	3703.8	4128.5	4386.7					
G22.0	4074.1	3660.3	3488.5	3849.8	4074.1					
G23.0	3799.2	3434.6	3292.9	3606.9	3799.2					
G24.0	3574.9	3241.3	3116.3	3398.3	3574.9					
G25.0	3378.3	3043.8	2928.3	3218.4	3378.3					
G26.0	3191.7	2864.3	2739.8	3046.1	3191.7					
G27.0	3027.5	2661.0	2523.1	2869.6	3027.5					
G28.0	2870.0	2441.5	2264.4	2691.6	2870.0					
G29.0	2703.0	2167.1	1951.4	2486.4	2703.0					
G30.0	2499.2	1854.0	1581.1	2245.8	2499.2					
G31.0	2261.1	1500.4	1201.7	1949.0	2261.1					
G32.0	1935.6	1147.3	849.0	1610.6	1935.6					
G33.0	1577.2	797.0	554.5	1237.4	1577.2					
G34.0	1173.0	540.2	361.3	879.5	1173.0					
G35.0	809.8	358.9	255.3	595.6	809.8					
G36.0	522.6	257.7	203.8	389.4	522.6					

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 15 of 16 Pages

## Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G37.0	350.3	207.1	174.2	266.3	350.3					
G38.0	254.8	177.1	154.1	205.2	254.8					
G39.0	208.1	158.9	140.8	173.2	208.1					
G40.0	178.0	144.6	129.8	153.2	178.0					
G41.0	160.8	133.6	120.3	139.4	160.8					
G42.0	147.5	123.1	110.7	127.9	147.5					
G43.0	135.1	113.6	101.7	117.9	135.1					
G44.0	125.0	104.0	93.5	107.8	125.0					
G45.0	116.9	96.9	86.4	100.2	116.9					
G46.0	108.3	88.8	79.2	92.6	108.3					
G47.0	100.7	81.6	73.5	84.9	100.7					
G48.0	93.1	74.9	66.3	78.3	93.1					
G49.0	85.9	67.8	60.1	72.1	85.9					
G50.0	78.7	62.0	53.0	65.9	78.7					
G51.0	71.6	54.9	47.7	59.2	71.6					
G52.0	64.9	49.2	42.5	52.5	64.9					
G53.0	57.3	43.0	35.8	47.7	57.3					
G54.0	51.1	36.8	31.5	42.0	51.1					
G55.0	45.3	31.5	25.3	36.8	45.3					
G56.0	38.7	25.3	19.6	30.5	38.7					
G57.0	33.4	18.6	13.4	25.8	33.4					
G58.0	26.3	6.7	2.4	19.6	26.3					
G59.0	19.6	3.3	0.9	11.0	19.6					
G60.0	6.7	0.9	0.0	2.9	6.7					
G61.0	3.8	0.0	0.0	0.5	3.8					
G62.0	1.4	0.0	0.0	0.0	1.4					
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

[illegible]

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