

Tel:
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Report No.:

Test Time: 2017-07-28 11:30

Luminaire Property

Luminaire Manufacturer:
Luminaire Category: LED DownLight
Lamp Catalog: 3000k
Luminous Length (mm): 130
Voltage: 219.8 V
Power: 25.20 W

Luminaire Description: DLC0525-B830 15D
Lamp Description: T1204C430M2
Luminous Width (mm): 130
Current: 0.118 A
Power Factor: 0.968

Photometric Results

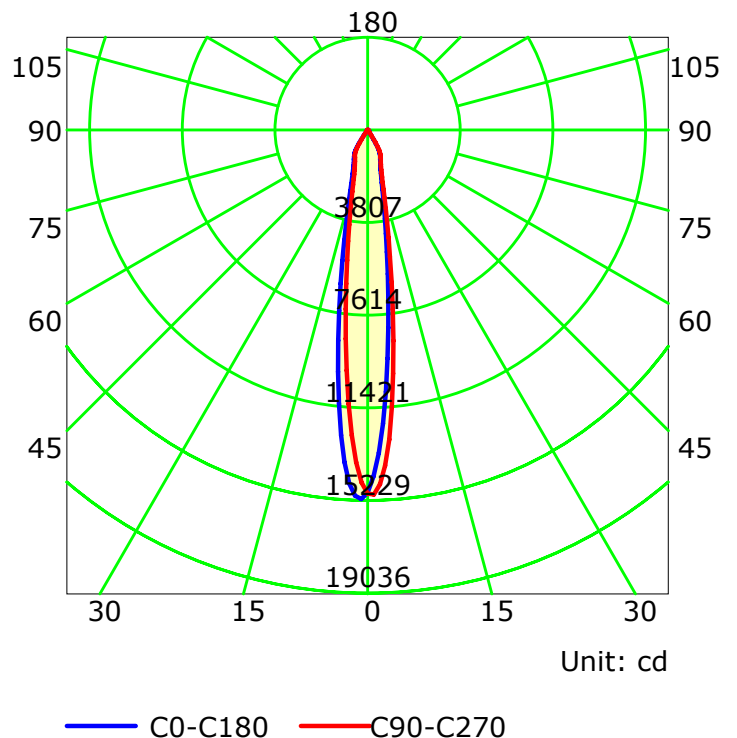
CIE Class: Direct
Measurement Flux: 2407.4 lm
Downward Ratio: 100%
Field Angle: H42.9 V42.1
Luminaire Efficacy Rating (LER): 96
Max. Intensity: 15167.71 cd

Total Rated Lamp Lumens: 2407.4 lm
Efficiency: 100%
Upward Ratio: 0%
Beam Angle: H15.5 V14.9
Central Intensity: 14900.93 cd
Pos of Max. Intensity: H180 V1

Picture Of Luminaire



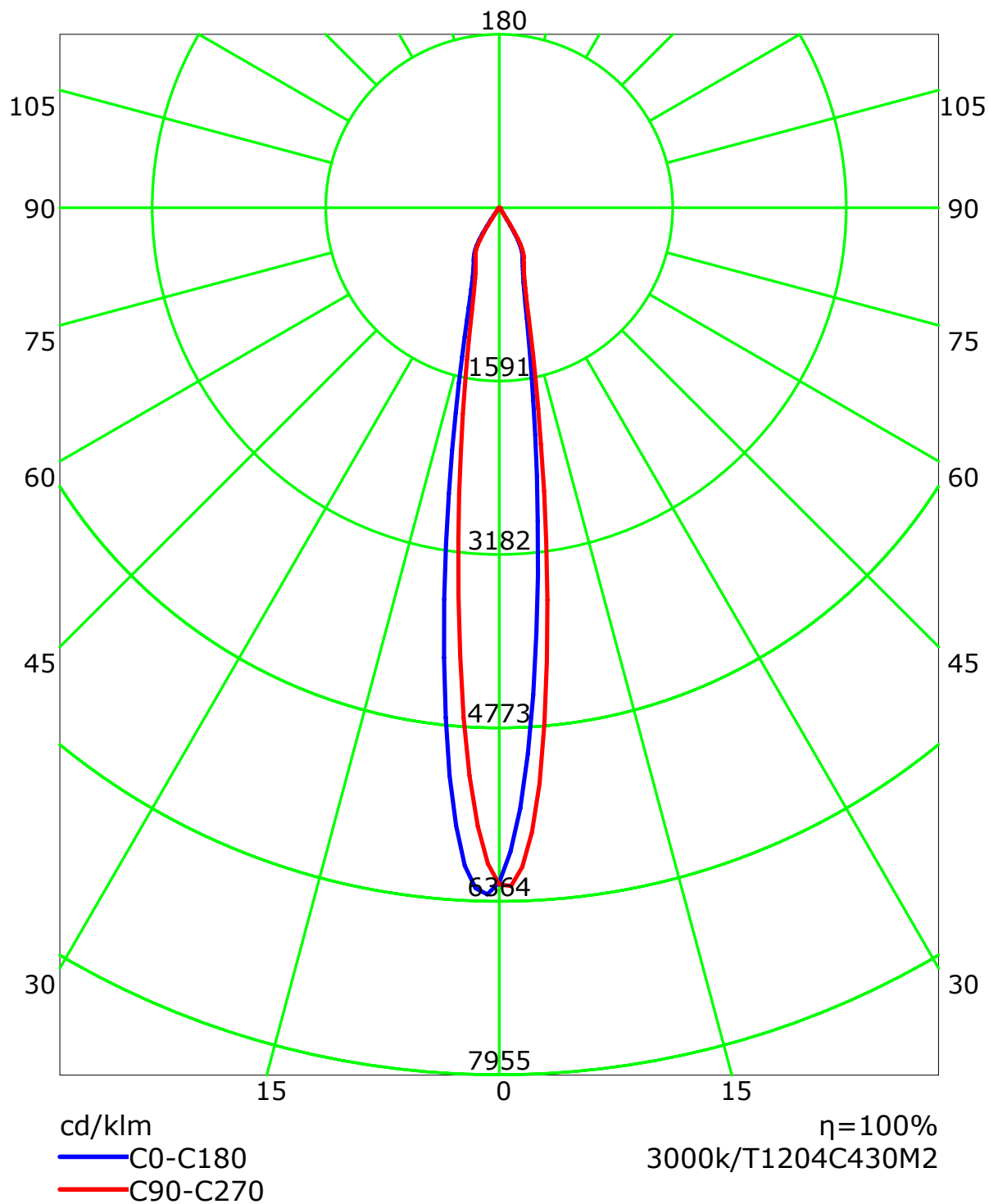
Luminous Intensity Distribution Curve



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:

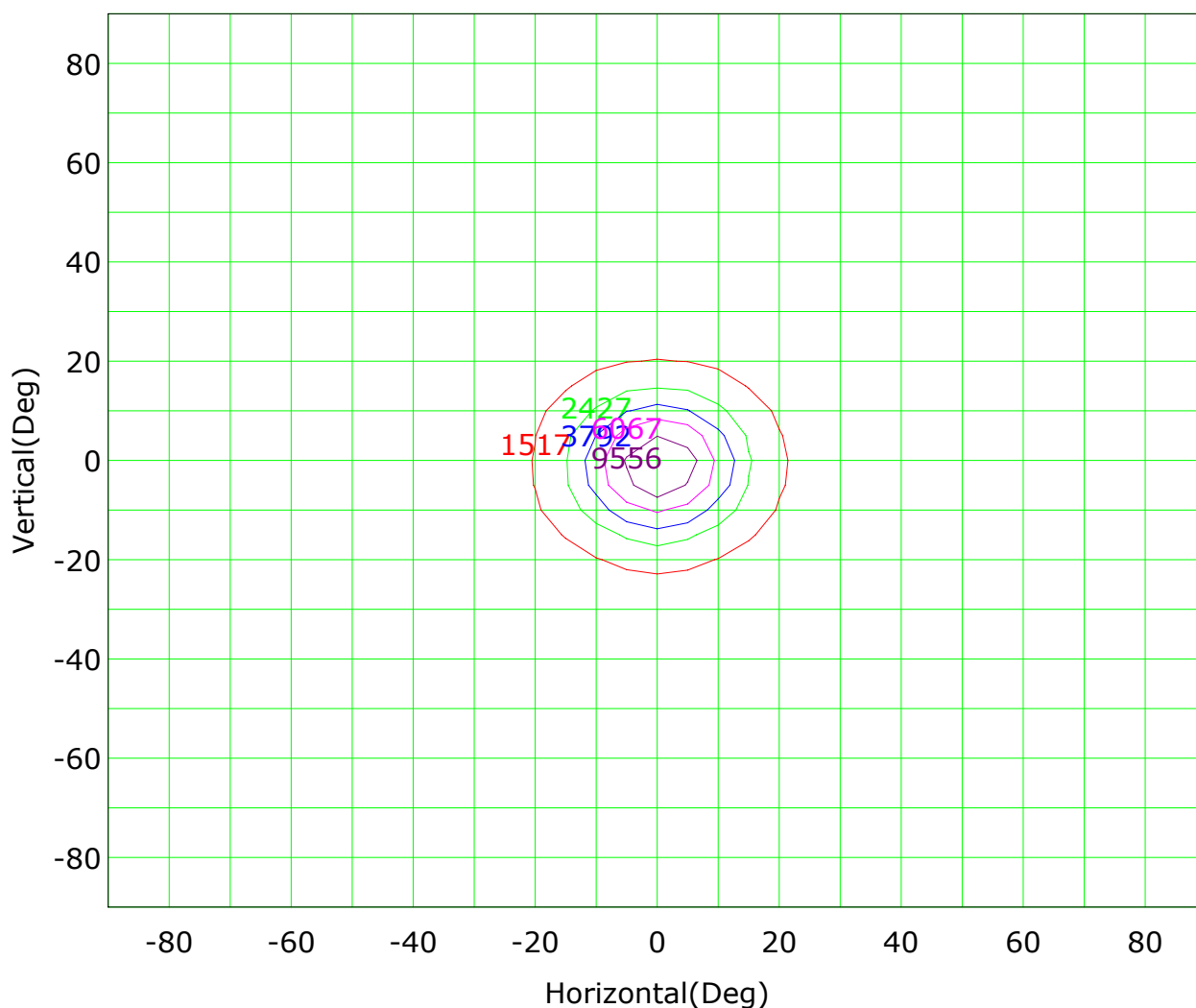
Luminous Intensity Distribution Curve(cd/klm)



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:

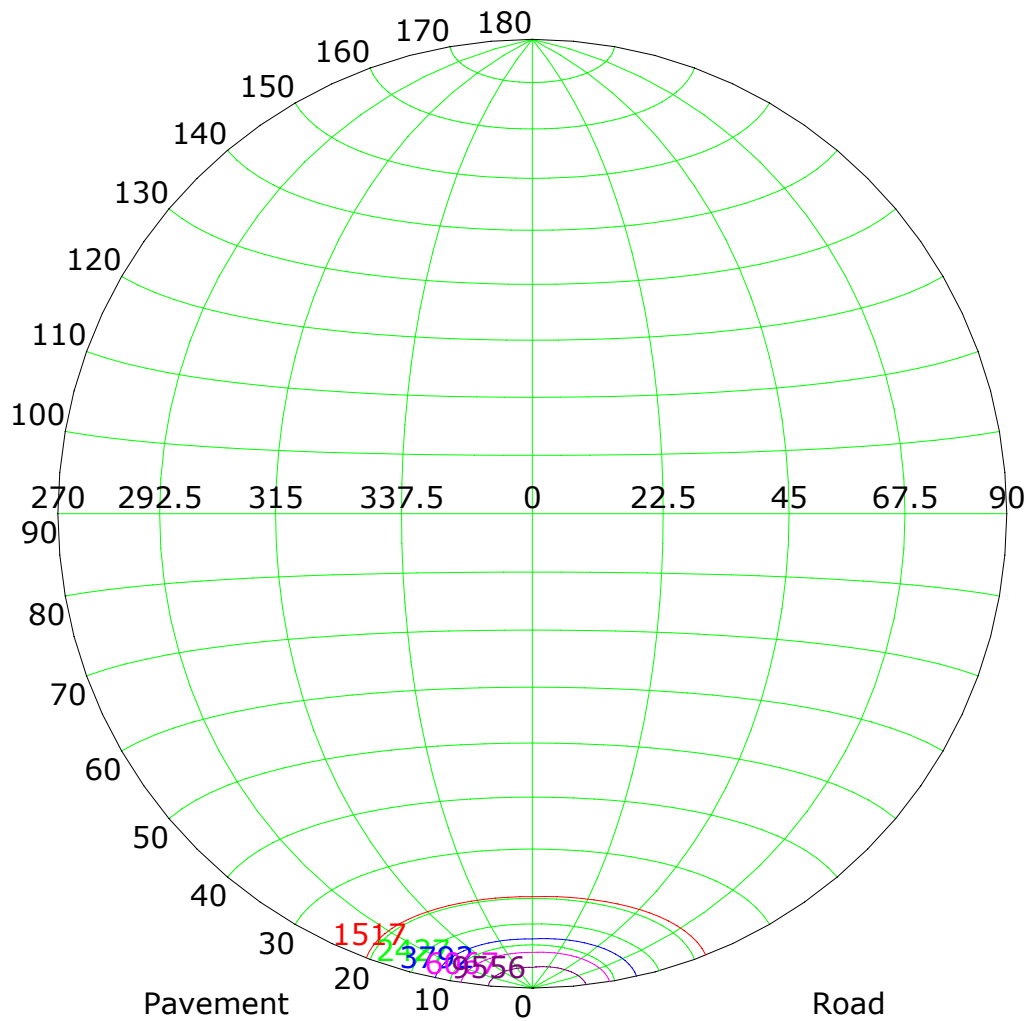
Isocandela (rectangle)



Imax (100%): 15168 cd

(10%): 1517 cd	(16%): 2427 cd
(25%): 3792 cd	(40%): 6067 cd
(63%): 9556 cd	(100%): 15168 cd

Isocandela (sphere)



Imax (100%): 15168 cd

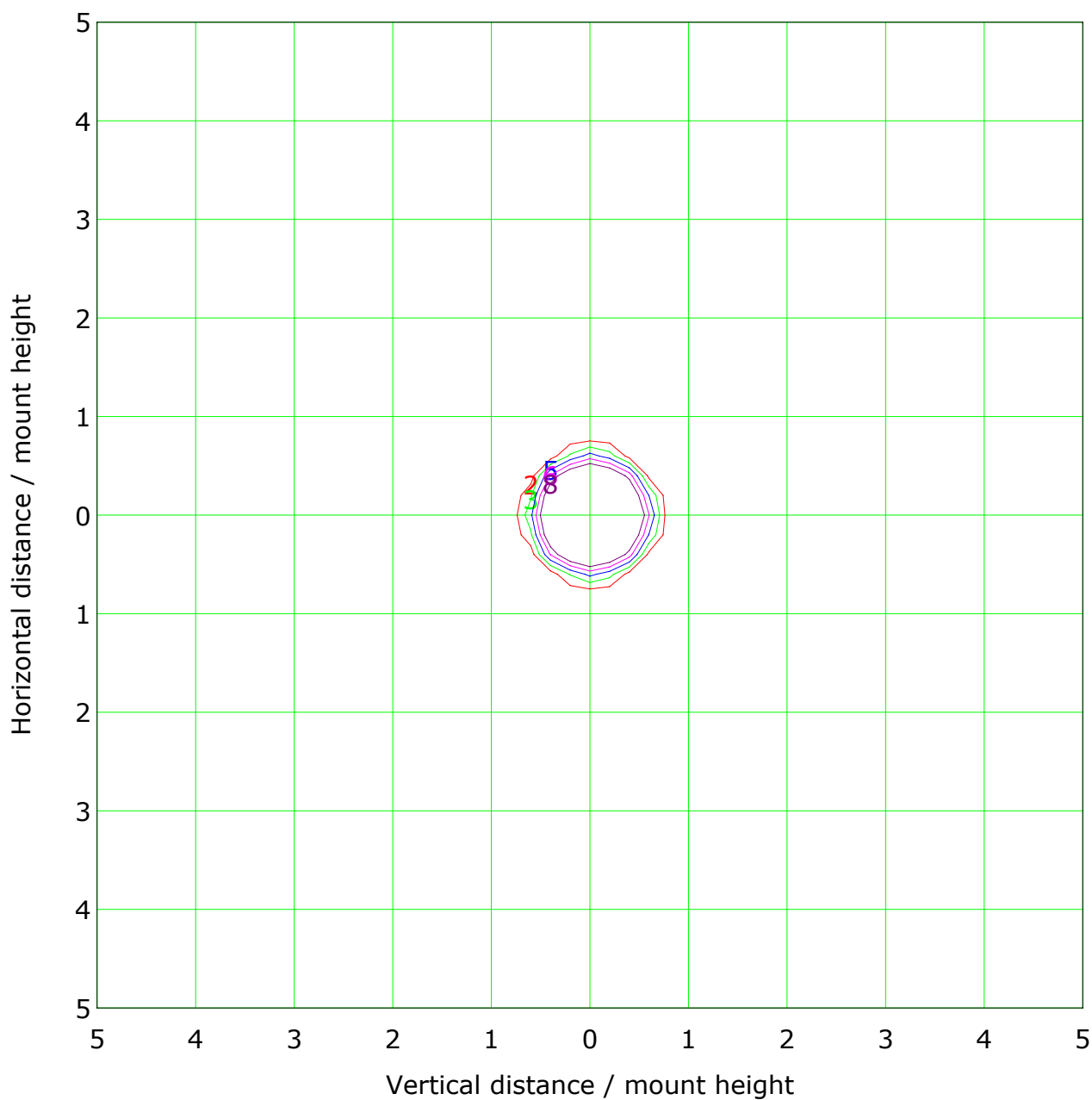
— (10%): 1517 cd
— (25%): 3792 cd
— (63%): 9556 cd

— (16%): 2427 cd
— (40%): 6067 cd
— (100%): 15168 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:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 151.6 lx

— (1%): 1.5 lx	— (2%): 3.0 lx
— (3%): 4.5 lx	— (4%): 6.1 lx
— (5%): 7.6 lx	

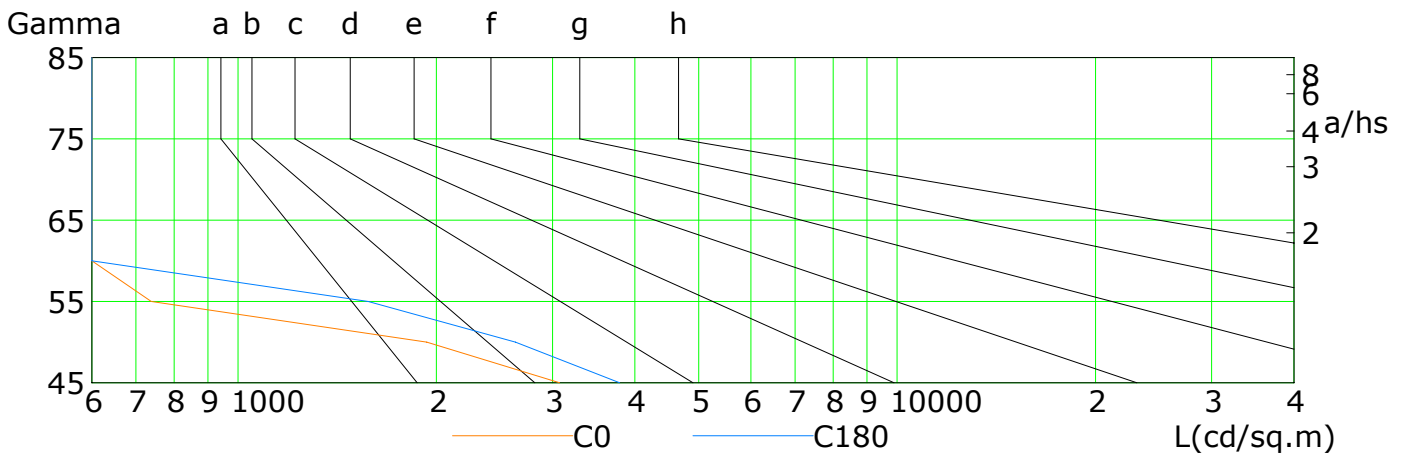
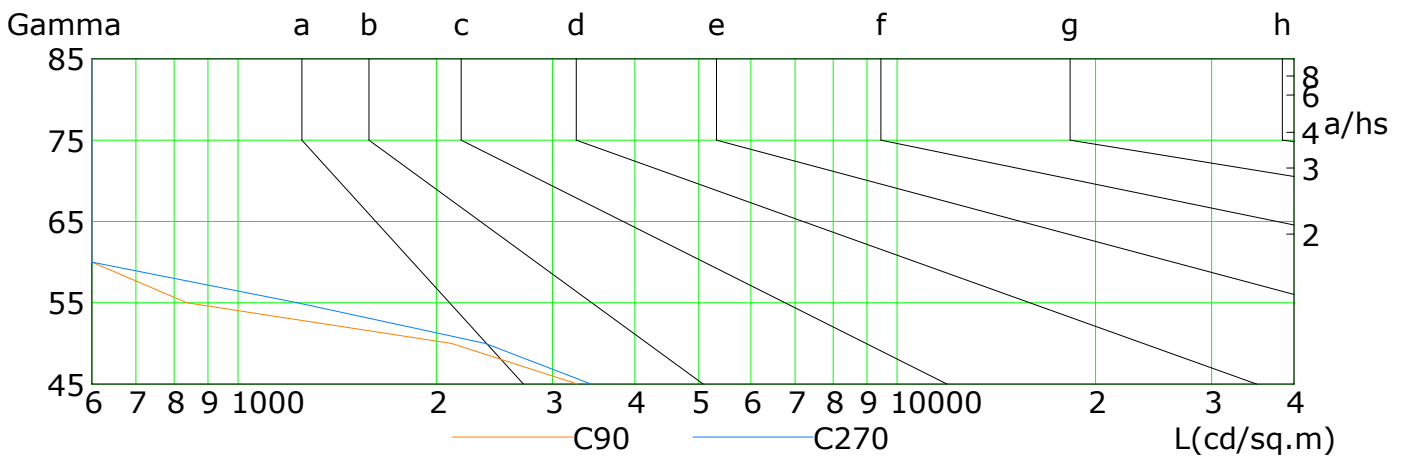
C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	3075	1933	739	0	0	0	0	0	0
C90	3274	2109	837	0	0	0	0	0	0
C180	3794	2636	1575	0	0	0	0	0	0
C270	3434	2372	1231	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

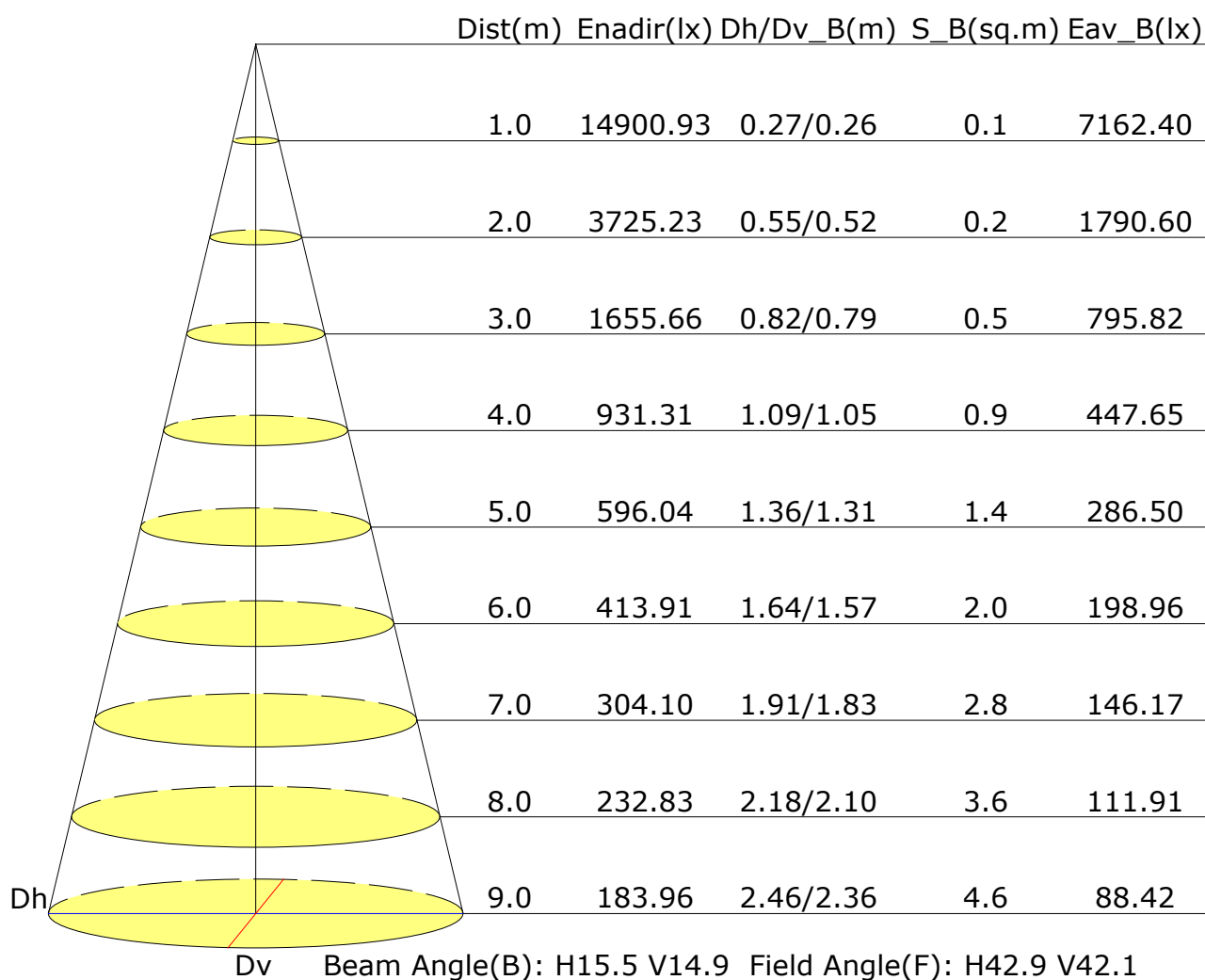
Test Device: GPM-1600L

Distance: 7.990 m

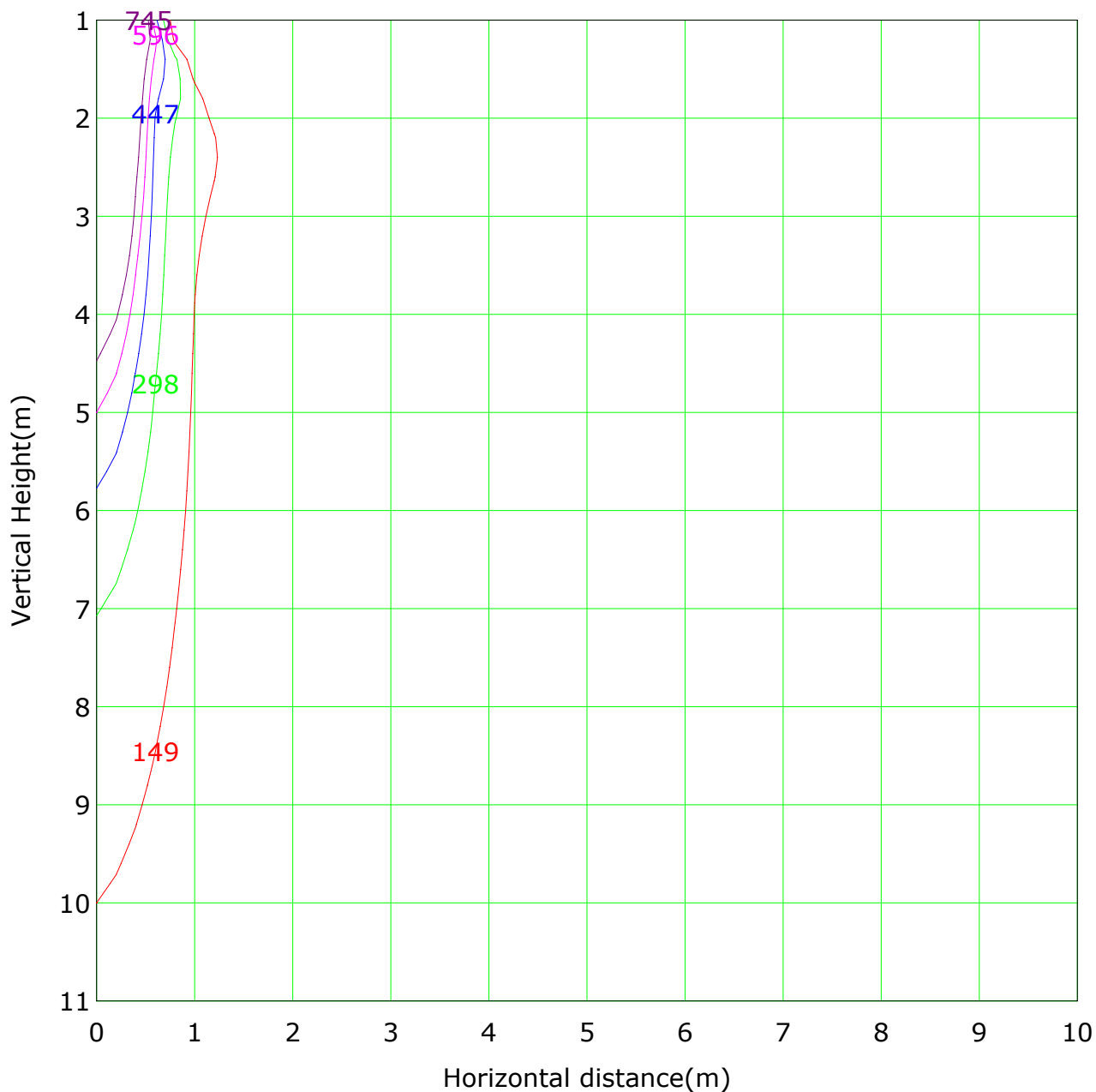
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot

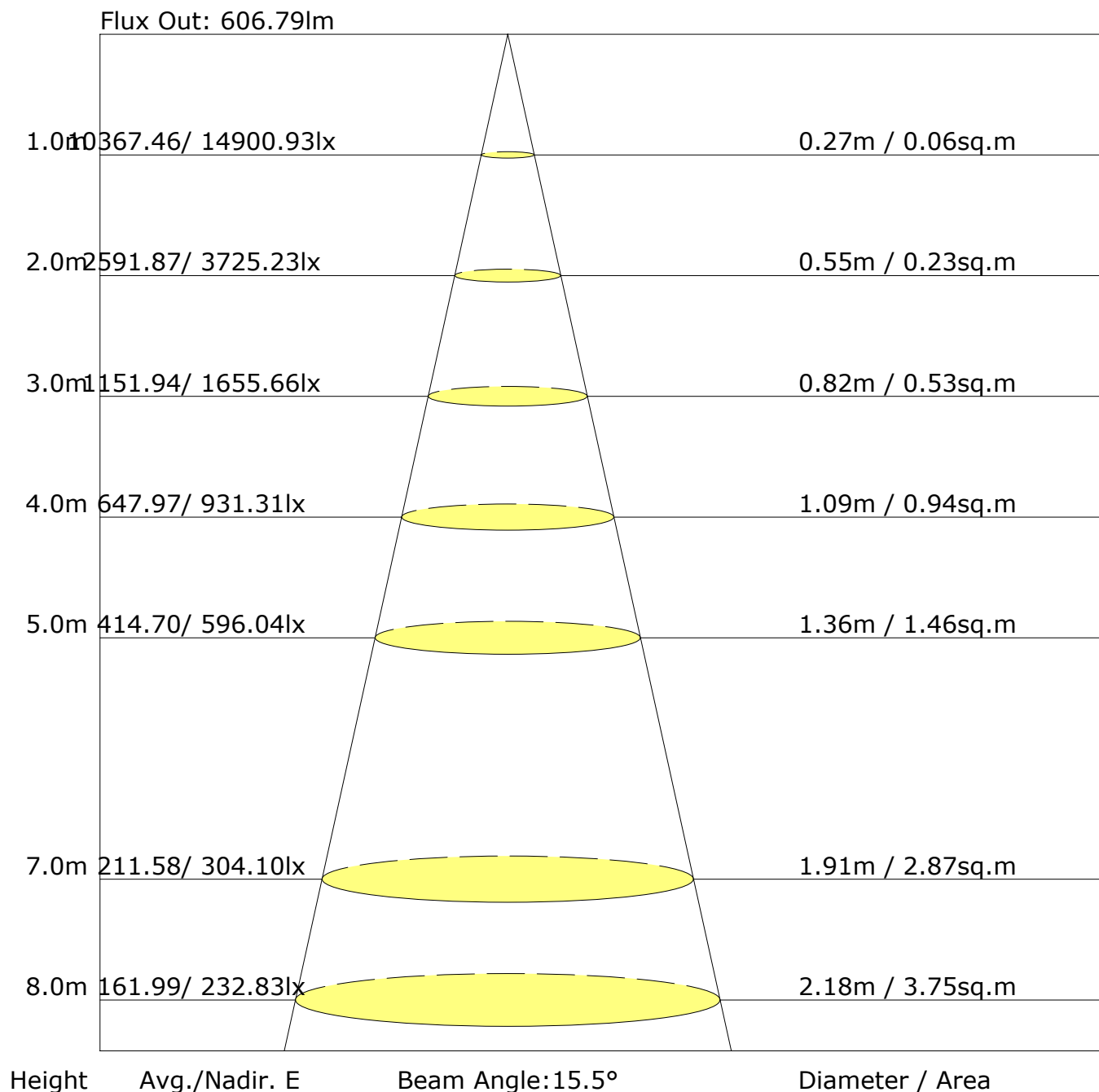


Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 14900.9 lx

(1%): 149.0 lx
(3%): 447.0 lx
(5%): 745.0 lx

(2%): 298.0 lx
(4%): 596.0 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	-23.1	-22.2	-22.8	-21.9	-21.6	-14.7	-13.8	-14.3	-13.4	-13.1	
3H	-23.4	-22.6	-23.0	-22.2	-21.9	-14.9	-14.1	-14.5	-13.7	-13.4	
4H	-23.5	-22.7	-23.1	-22.4	-22.0	-15.0	-14.3	-14.6	-13.9	-13.5	
6H	-23.6	-22.9	-23.2	-22.5	-22.1	-15.1	-14.4	-14.7	-14.1	-13.7	
8H	-23.6	-23.0	-23.2	-22.6	-22.2	-15.2	-14.5	-14.7	-14.1	-13.7	
12H	-23.7	-23.1	-23.3	-22.7	-22.3	-15.2	-14.6	-14.8	-14.2	-13.8	
X=4H Y=2H	-23.5	-22.7	-23.1	-22.4	-22.0	-15.0	-14.3	-14.6	-13.9	-13.5	
3H	-23.7	-23.1	-23.3	-22.7	-22.3	-15.2	-14.6	-14.8	-14.2	-13.8	
4H	-23.8	-23.3	-23.4	-22.9	-22.4	-15.3	-14.8	-14.9	-14.4	-13.9	
6H	-23.9	-23.5	-23.5	-23.0	-22.6	-15.5	-15.0	-15.0	-14.6	-14.1	
8H	-24.0	-23.6	-23.5	-23.1	-22.7	-15.5	-15.1	-15.1	-14.7	-14.2	
12H	-24.1	-23.7	-23.6	-23.2	-22.8	-15.6	-15.2	-15.1	-14.8	-14.3	
X=8H Y=4H	-24.0	-23.6	-23.5	-23.1	-22.7	-15.5	-15.1	-15.1	-14.7	-14.2	
6H	-24.2	-23.8	-23.6	-23.3	-22.8	-15.7	-15.3	-15.2	-14.8	-14.3	
8H	-24.2	-23.9	-23.7	-23.4	-22.9	-15.7	-15.5	-15.2	-14.9	-14.4	
12H	-24.3	-24.0	-23.8	-23.5	-23.0	-15.8	-15.6	-15.3	-15.1	-14.5	
X=12H Y=4H	-24.1	-23.7	-23.6	-23.2	-22.8	-15.6	-15.2	-15.1	-14.8	-14.3	
6H	-24.2	-23.9	-23.7	-23.5	-22.9	-15.7	-15.5	-15.2	-15.0	-14.4	
8H	-24.3	-24.0	-23.8	-23.5	-23.0	-15.8	-15.6	-15.3	-15.1	-14.5	

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:

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	14820.5	14.2	14.2	0.59	0.59
1.0-2.0	14428.1	41.4	55.6	1.72	2.31
2.0-3.0	13695.2	65.5	121.1	2.72	5.03
3.0-4.0	12689.9	85.0	206.1	3.53	8.56
4.0-5.0	11486.1	98.8	304.9	4.10	12.66
5.0-6.0	10195.8	107.2	412.1	4.45	17.12
6.0-7.0	8915.1	110.7	522.7	4.60	21.71
7.0-8.0	7709.1	110.3	633.1	4.58	26.30
8.0-9.0	6613.1	107.2	740.3	4.45	30.75
9.0-10.0	5629.7	101.9	842.2	4.23	34.98
10.0-11.0	4794.2	95.8	938.0	3.98	38.96
11.0-12.0	4104.2	89.7	1027.7	3.73	42.69
12.0-13.0	3530.4	83.8	1111.5	3.48	46.17
13.0-14.0	3059.8	78.3	1189.8	3.25	49.42
14.0-15.0	2680.7	73.6	1263.4	3.06	52.48
15.0-16.0	2378.3	69.7	1333.1	2.90	55.37
16.0-17.0	2135.8	66.5	1399.6	2.76	58.14
17.0-18.0	1944.1	64.1	1463.7	2.66	60.80
18.0-19.0	1793.2	62.4	1526.1	2.59	63.39
19.0-20.0	1671.2	61.2	1587.3	2.54	65.93
20.0-21.0	1569.9	60.3	1647.6	2.50	68.44
21.0-22.0	1485.4	59.7	1707.3	2.48	70.92
22.0-23.0	1413.1	59.3	1766.6	2.46	73.38
23.0-24.0	1350.7	59.1	1825.7	2.45	75.83
24.0-25.0	1296.5	59.0	1884.6	2.45	78.28
25.0-26.0	1247.4	58.9	1943.5	2.45	80.73
26.0-27.0	1199.2	58.7	2002.2	2.44	83.17
27.0-28.0	1145.8	58.0	2060.2	2.41	85.58
28.0-29.0	1079.2	56.5	2116.7	2.35	87.92
29.0-30.0	991.8	53.6	2170.2	2.22	90.15
30.0-31.0	874.3	48.7	2218.9	2.02	92.17
31.0-32.0	723.2	41.4	2260.3	1.72	93.89
32.0-33.0	551.1	32.5	2292.8	1.35	95.24
33.0-34.0	385.3	23.3	2316.1	0.97	96.21
34.0-35.0	252.4	15.7	2331.8	0.65	96.86
35.0-36.0	164.9	10.5	2342.3	0.44	97.29

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	116.0	7.6	2349.9	0.31	97.61
37.0-38.0	90.5	6.0	2355.9	0.25	97.86
38.0-39.0	77.0	5.3	2361.2	0.22	98.08
39.0-40.0	68.0	4.7	2365.9	0.20	98.28
40.0-41.0	61.3	4.4	2370.3	0.18	98.46
41.0-42.0	55.5	4.0	2374.3	0.17	98.62
42.0-43.0	50.7	3.8	2378.1	0.16	98.78
43.0-44.0	46.4	3.5	2381.6	0.15	98.93
44.0-45.0	42.4	3.3	2384.8	0.14	99.06
45.0-46.0	39.0	3.0	2387.9	0.13	99.19
46.0-47.0	35.7	2.8	2390.7	0.12	99.31
47.0-48.0	32.4	2.6	2393.3	0.11	99.41
48.0-49.0	29.2	2.4	2395.7	0.10	99.51
49.0-50.0	26.1	2.2	2397.9	0.09	99.60
50.0-51.0	23.2	2.0	2399.9	0.08	99.69
51.0-52.0	20.4	1.8	2401.6	0.07	99.76
52.0-53.0	17.6	1.5	2403.1	0.06	99.82
53.0-54.0	14.6	1.3	2404.4	0.05	99.88
54.0-55.0	11.8	1.1	2405.5	0.04	99.92
55.0-56.0	9.3	0.8	2406.3	0.03	99.95
56.0-57.0	6.3	0.6	2406.9	0.02	99.98
57.0-58.0	3.5	0.3	2407.2	0.01	99.99
58.0-59.0	1.7	0.2	2407.4	0.01	100.00
59.0-60.0	0.5	0.0	2407.4	0.00	100.00
60.0-61.0	0.0	0.0	2407.4	0.00	100.00
61.0-62.0	0.0	0.0	2407.4	0.00	100.00
62.0-63.0	0.0	0.0	2407.4	0.00	100.00
63.0-64.0	0.0	0.0	2407.4	0.00	100.00
64.0-65.0	0.0	0.0	2407.4	0.00	100.00
65.0-66.0	0.0	0.0	2407.4	0.00	100.00
66.0-67.0	0.0	0.0	2407.4	0.00	100.00
67.0-68.0	0.0	0.0	2407.4	0.00	100.00
68.0-69.0	0.0	0.0	2407.4	0.00	100.00
69.0-70.0	0.0	0.0	2407.4	0.00	100.00
70.0-71.0	0.0	0.0	2407.4	0.00	100.00
71.0-72.0	0.0	0.0	2407.4	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:

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	14900.9	14945.3	14900.9	14945.3	14900.9					
G1.0	14229.5	14984.5	15167.7	14489.6	14229.5					
G2.0	13275.0	14573.5	15040.3	13664.9	13275.0					
G3.0	12078.1	13813.8	14551.6	12564.0	12078.1					
G4.0	10786.8	12753.4	13681.1	11290.2	10786.8					
G5.0	9420.0	11442.0	12591.2	9923.9	9420.0					
G6.0	8171.1	10062.3	11322.7	8633.5	8171.1					
G7.0	6968.0	8728.0	10015.1	7419.9	6968.0					
G8.0	5979.2	7448.6	8738.5	6375.3	5979.2					
G9.0	5085.3	6340.4	7517.8	5419.4	5085.3					
G10.0	4330.8	5298.2	6410.6	4635.3	4330.8					
G11.0	3722.9	4520.8	5468.5	3966.7	3722.9					
G12.0	3234.2	3856.5	4635.3	3428.9	3234.2					
G13.0	2835.7	3307.7	3971.5	2973.6	2835.7					
G14.0	2517.4	2867.7	3389.7	2615.2	2517.4					
G15.0	2248.2	2521.2	2961.2	2325.1	2248.2					
G16.0	2039.7	2234.9	2597.6	2098.4	2039.7					
G17.0	1871.7	2024.9	2308.8	1910.3	1871.7					
G18.0	1737.1	1863.1	2075.5	1761.4	1737.1					
G19.0	1630.2	1727.6	1906.0	1644.5	1630.2					
G20.0	1540.5	1614.5	1758.1	1548.1	1540.5					
G21.0	1459.4	1526.2	1640.7	1471.8	1459.4					
G22.0	1390.6	1451.7	1542.4	1400.7	1390.6					
G23.0	1326.7	1388.3	1461.8	1342.4	1326.7					
G24.0	1273.7	1331.0	1394.0	1288.0	1273.7					
G25.0	1224.6	1279.4	1339.1	1242.2	1224.6					
G26.0	1172.6	1229.8	1288.0	1203.1	1172.6					
G27.0	1115.3	1181.1	1238.4	1164.9	1115.3					
G28.0	1041.8	1120.1	1186.4	1118.6	1041.8					
G29.0	943.0	1042.7	1126.3	1054.7	943.0					
G30.0	816.5	938.7	1057.1	955.4	816.5					
G31.0	650.9	790.3	965.4	820.3	650.9					
G32.0	468.2	611.8	839.0	640.0	468.2					
G33.0	307.8	416.6	671.5	454.3	307.8					
G34.0	194.7	262.5	491.1	284.0	194.7					
G35.0	126.9	160.4	324.0	175.6	126.9					
G36.0	96.9	113.1	204.7	117.9	96.9					

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	82.1	89.2	130.8	93.1	82.1					
G38.0	72.5	77.3	99.7	79.2	72.5					
G39.0	64.4	68.7	82.1	71.6	64.4					
G40.0	58.7	62.0	72.5	64.0	58.7					
G41.0	53.0	56.3	65.9	57.7	53.0					
G42.0	48.2	51.1	59.2	53.0	48.2					
G43.0	44.4	46.3	54.4	49.2	44.4					
G44.0	39.6	42.5	50.1	44.9	39.6					
G45.0	36.8	39.1	45.3	41.0	36.8					
G46.0	33.4	35.8	42.0	38.2	33.4					
G47.0	30.1	32.0	39.1	34.8	30.1					
G48.0	26.7	29.1	35.8	31.5	26.7					
G49.0	23.4	26.3	32.5	28.2	23.4					
G50.0	21.0	22.9	28.6	25.8	21.0					
G51.0	17.7	20.0	26.3	23.4	17.7					
G52.0	14.8	17.2	23.9	20.0	14.8					
G53.0	12.4	14.3	21.0	17.2	12.4					
G54.0	9.1	11.0	17.7	14.3	9.1					
G55.0	7.2	8.1	15.3	11.9	7.2					
G56.0	4.3	5.7	12.4	9.5	4.3					
G57.0	0.0	2.9	10.0	5.7	0.0					
G58.0	0.0	0.0	7.2	2.4	0.0					
G59.0	0.0	0.0	3.8	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:

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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: