

Report No.:

Test Time: 2025-08-23 16:51

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 32.04530 24D

Luminous Width (mm): -93

Current: 0.180 A

Power Factor: 0.979

Luminous Length (mm): -93

Voltage: 229.4 V

Power: 40.50 W

Photometric Results

CIE Class: Direct

Measurement Flux: 5129.1 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H15.7

Vertical Diffuse Angle(50%): V15.7

Luminaire Efficacy Rating (LER): 126.69

Max. Intensity: 38107.18 cd

S/MH(C0/C180): 0.27

Total Rated Lamp Lumens: 5129.1 lm

Efficiency: 100%

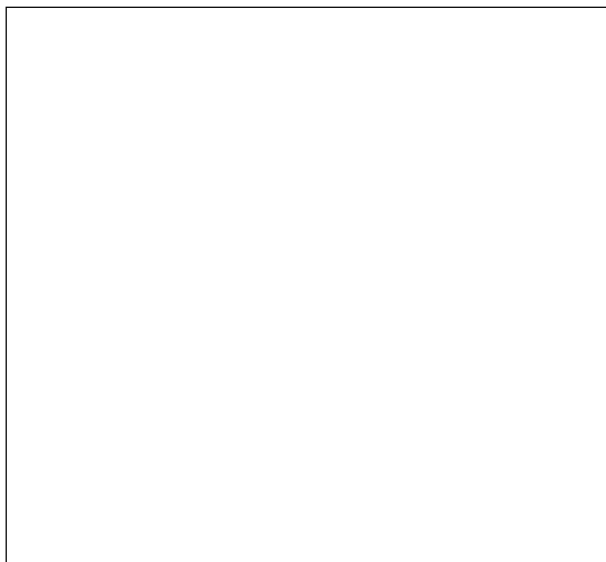
Upward Ratio: 0%

Central Intensity: 38000.45 cd

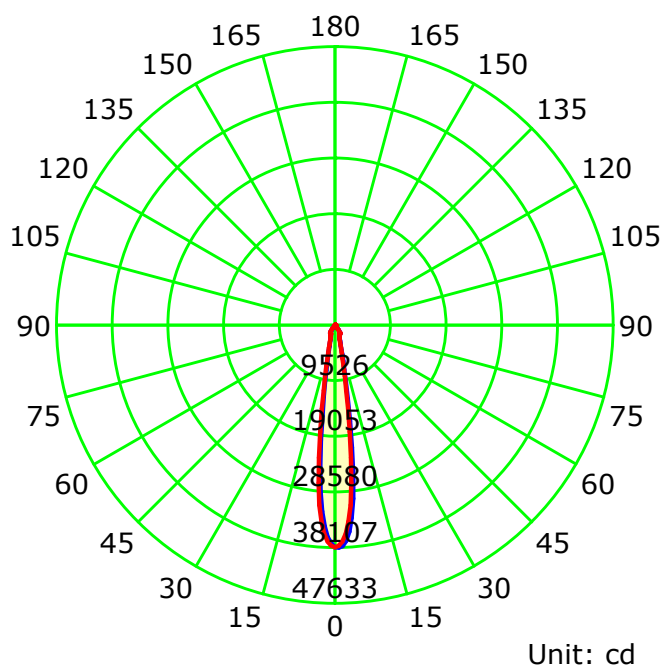
Pos of Max. Intensity: H0 V1

S/MH(C90/C270): 0.27

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

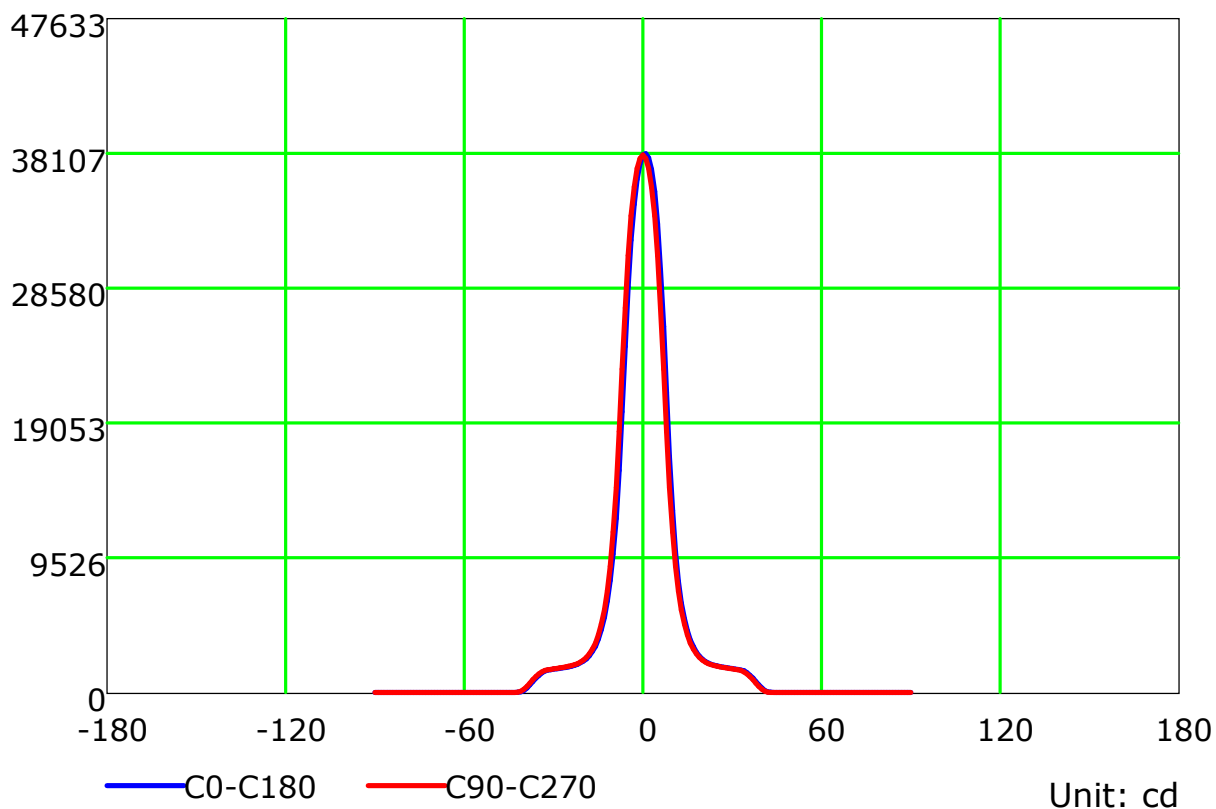
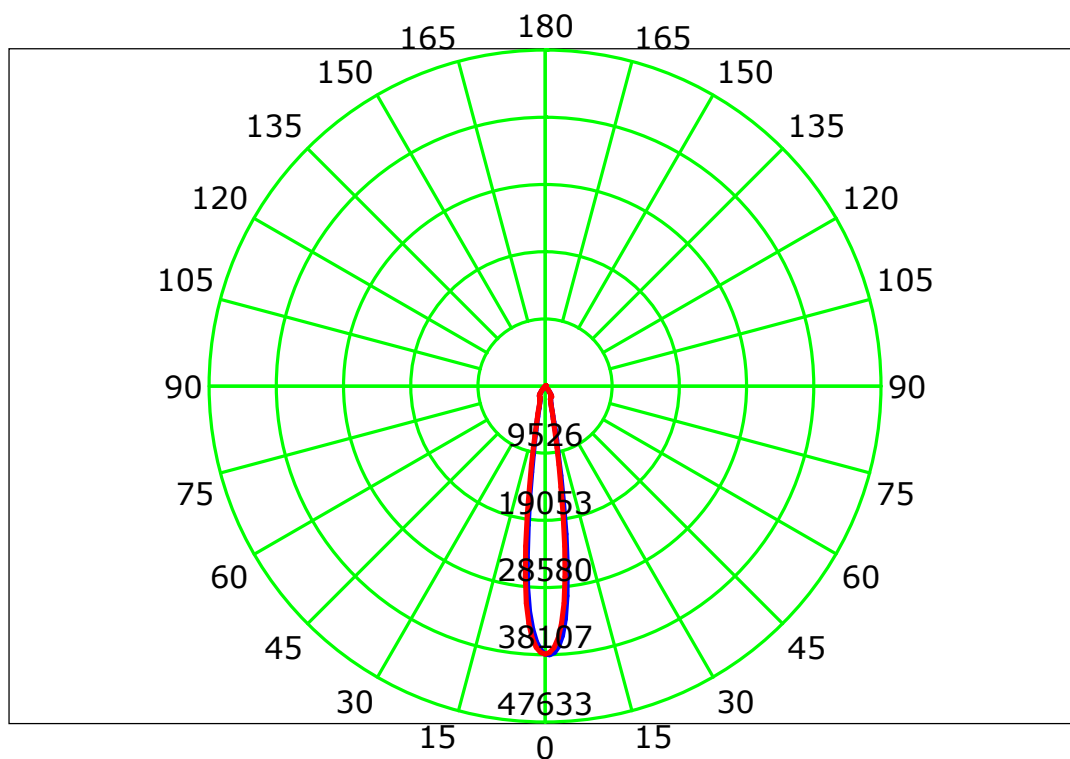
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

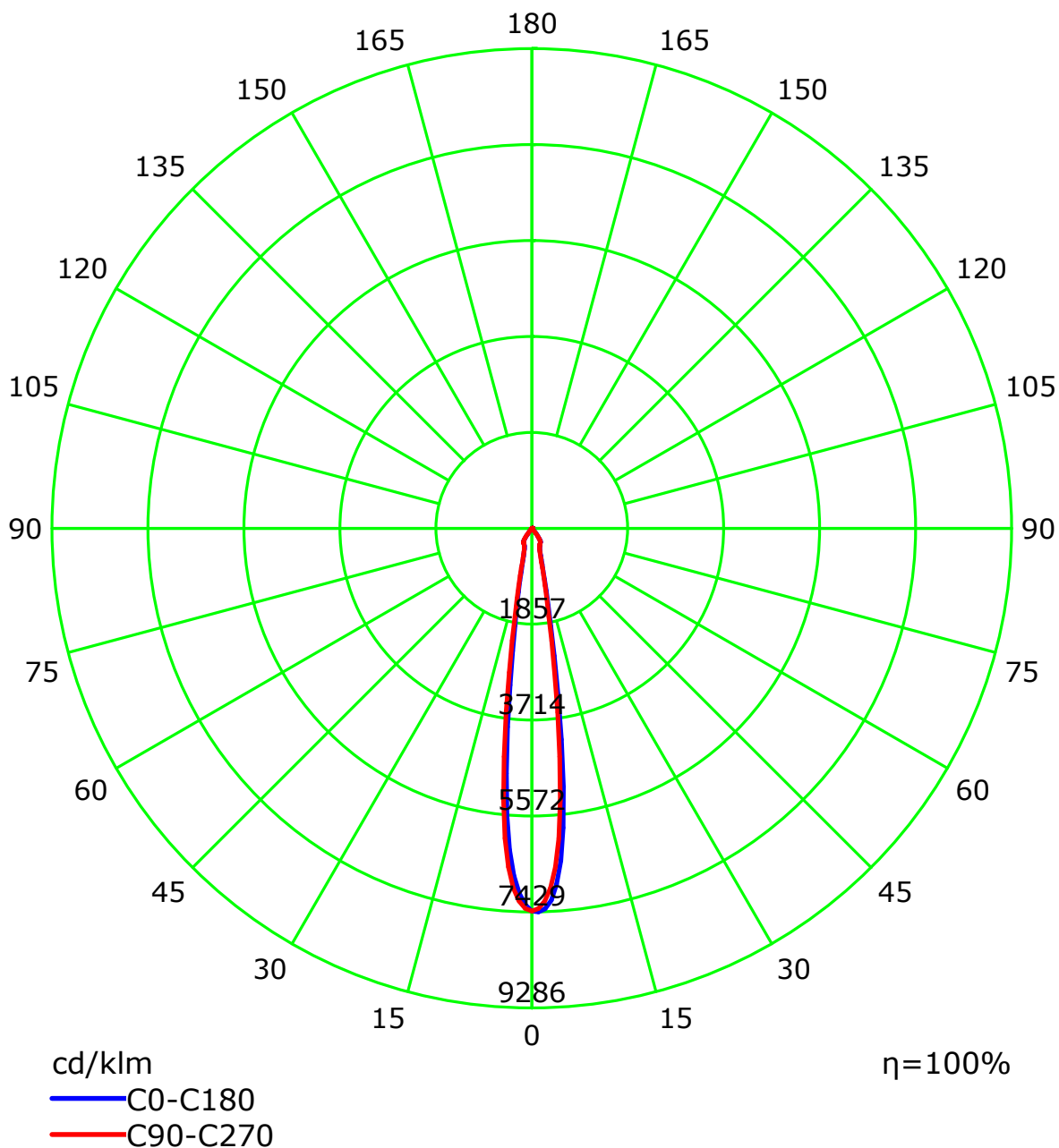
Luminous Intensity Distribution Curve



C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

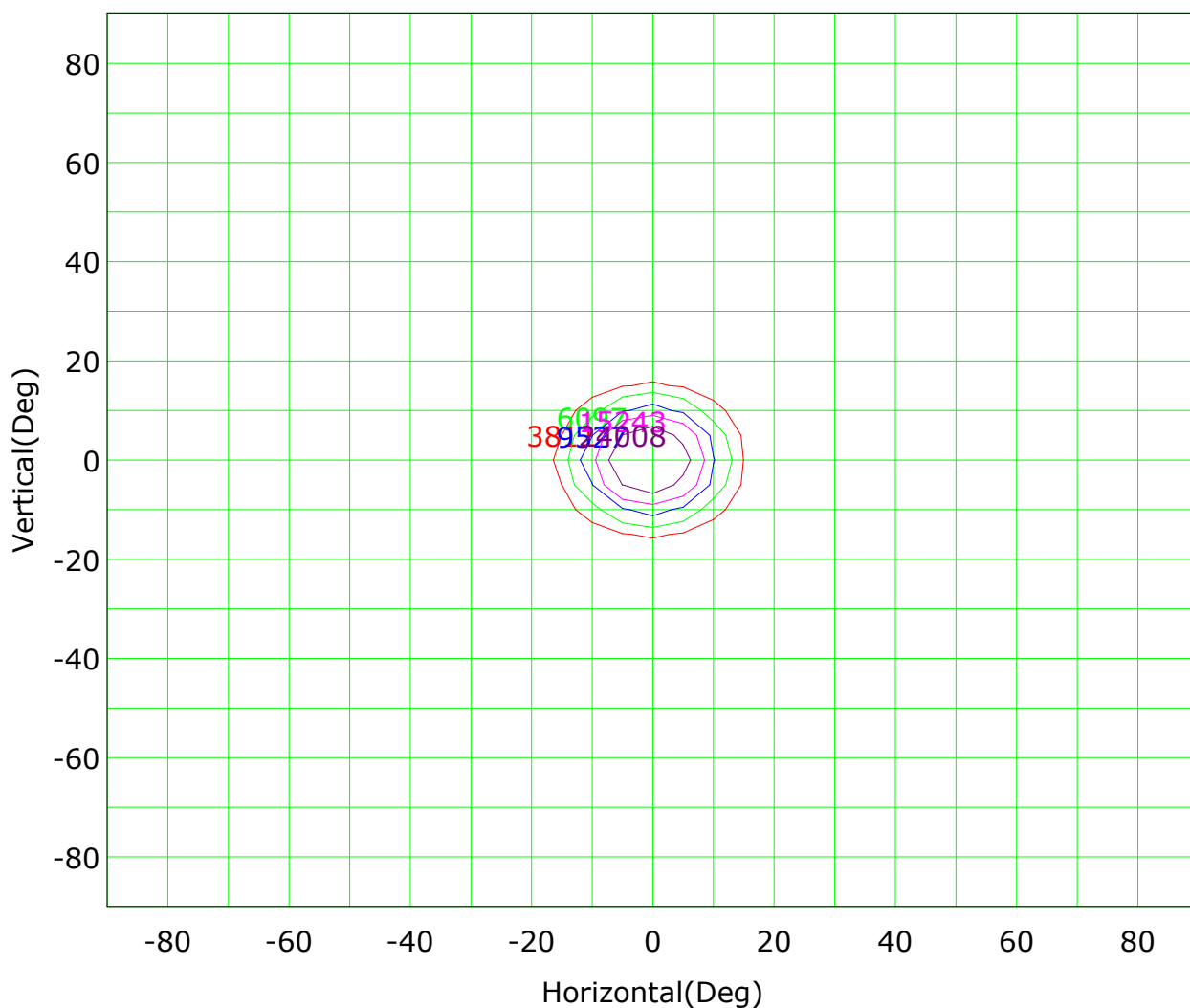
Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

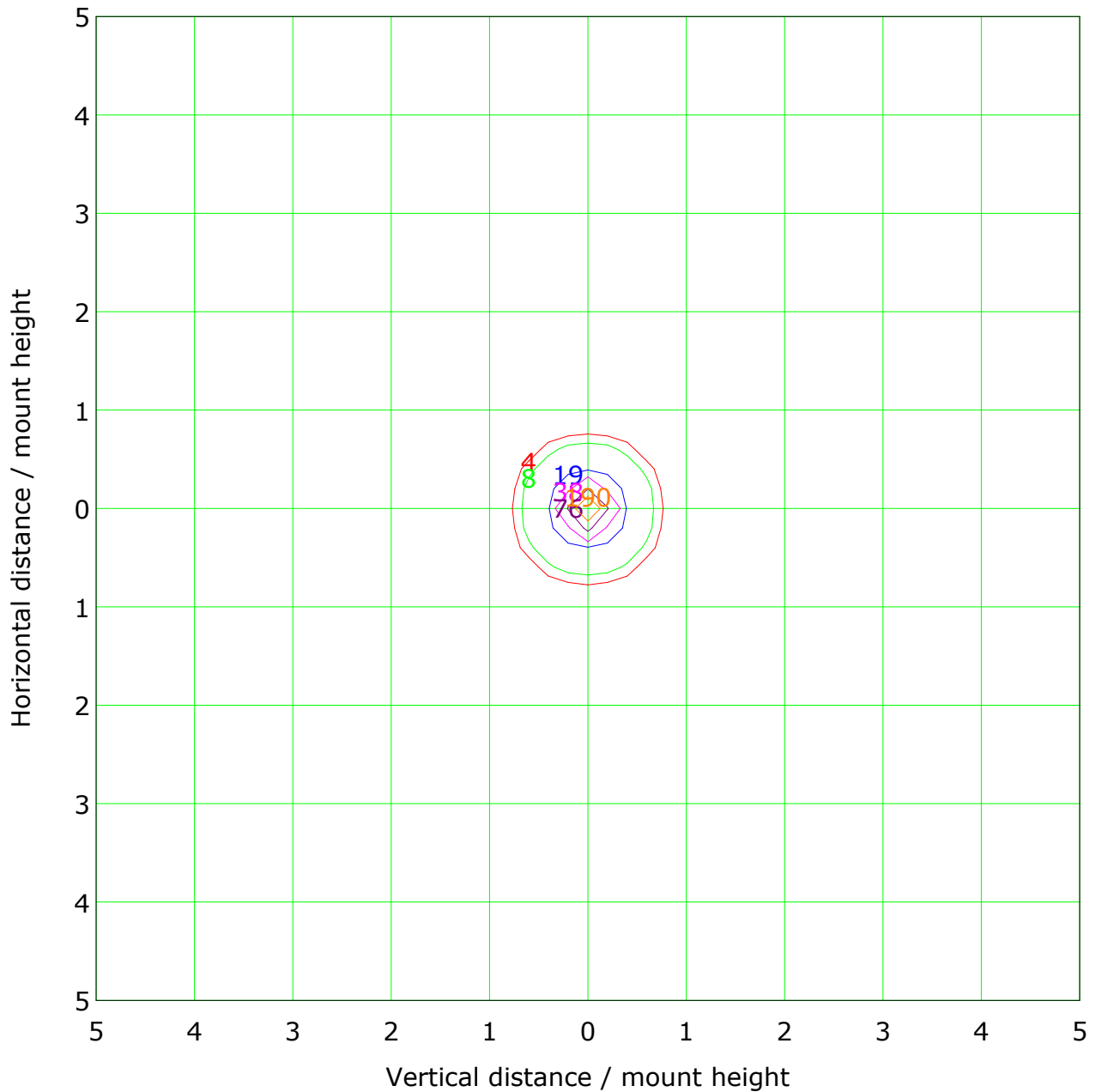
Isocandela (rectangle)



(10%): 3811 cd
(25%): 9527 cd
(63%): 24008 cd

(16%): 6097 cd
(40%): 15243 cd
(100%): 38107 cd

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 380.9 lx

(1%): 3.8 lx	(2%): 7.6 lx
(5%): 19.0 lx	(10%): 38.1 lx
(20%): 76.2 lx	(50%): 190.4 lx
(100%): 380.9 lx	

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

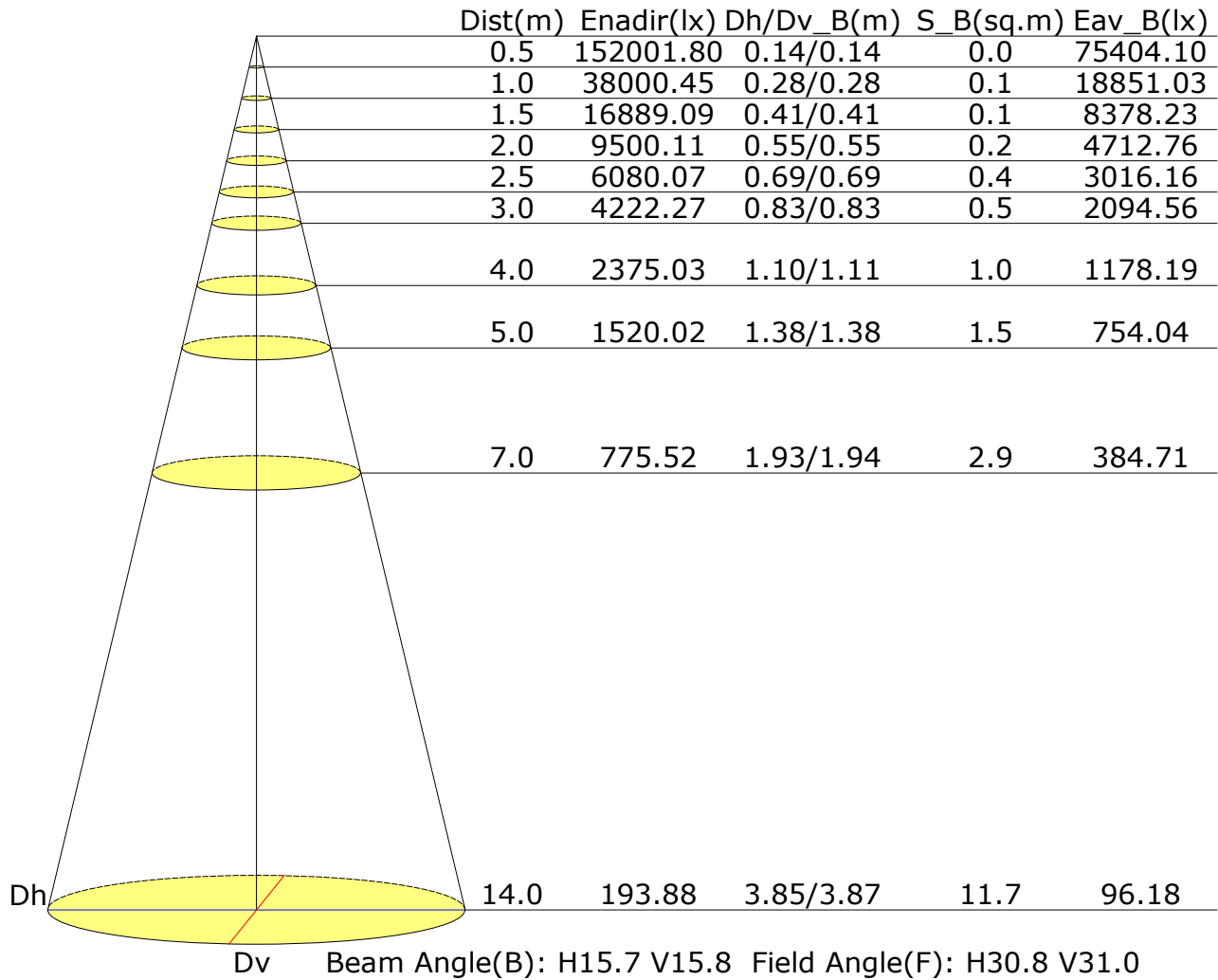
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

Illuminance at a Distance



C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

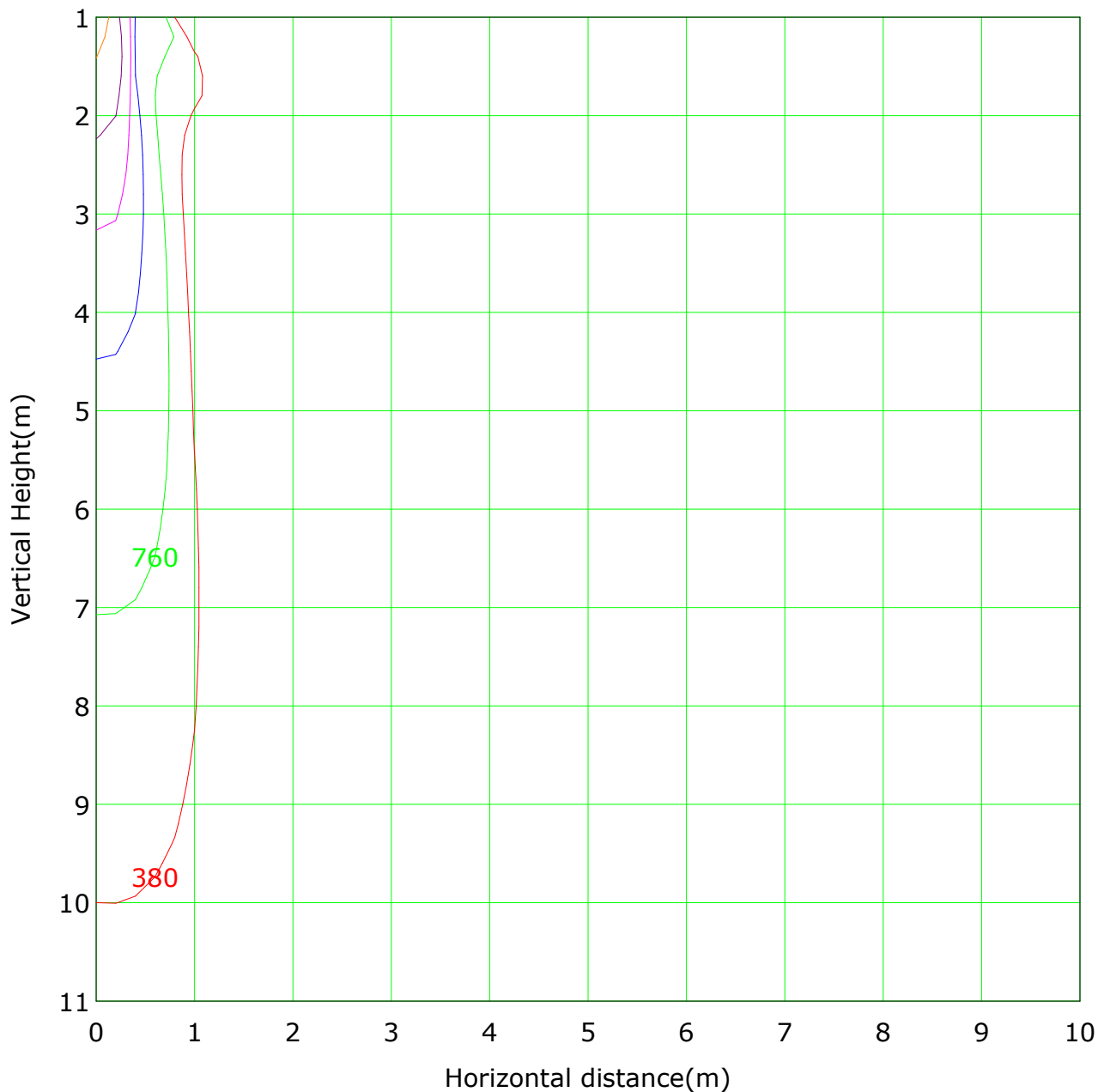
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 38000.4 lx

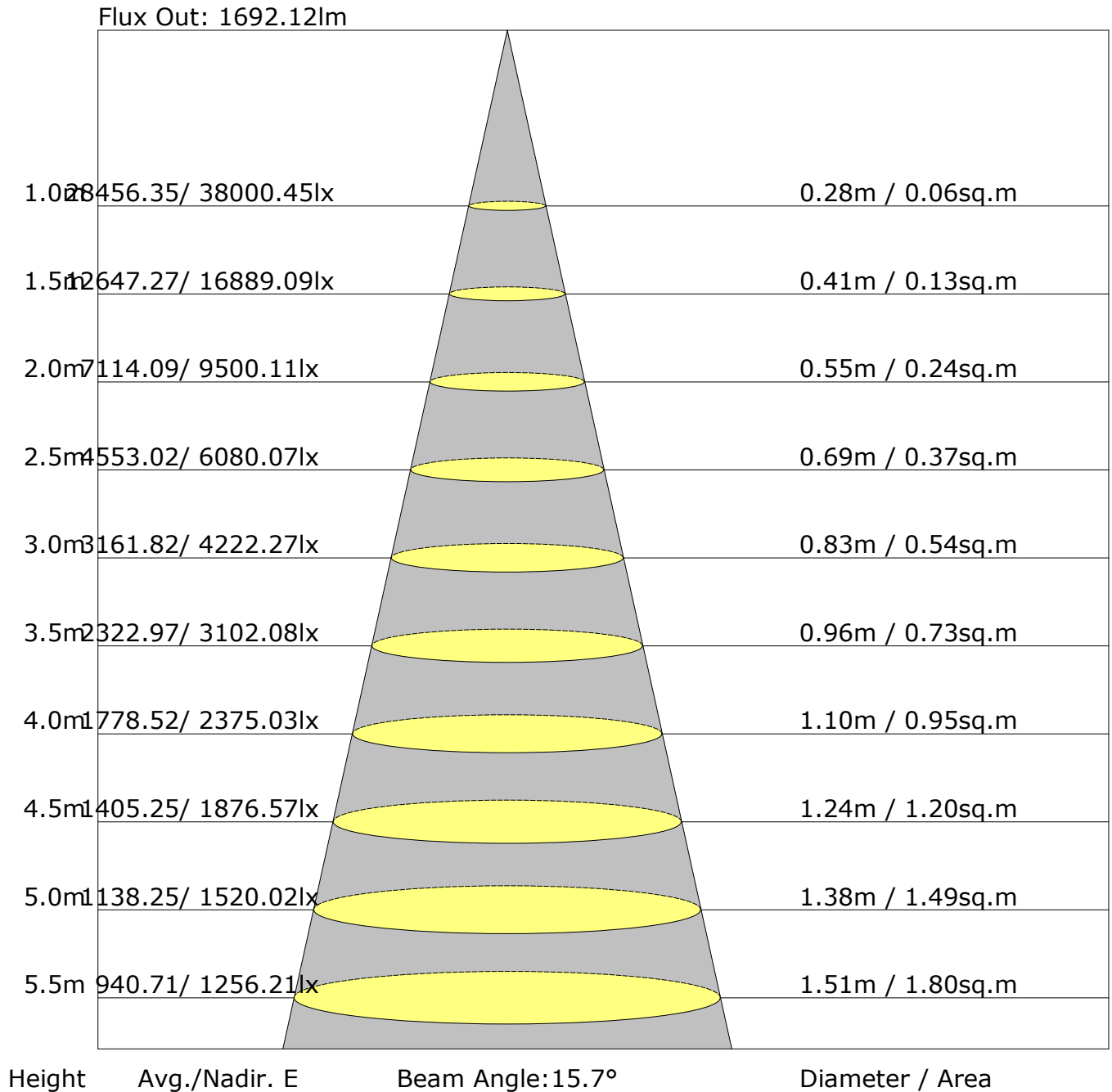
(1%): 380.0 lx	(2%): 760.0 lx
(5%): 1900.0 lx	(10%): 3800.0 lx
(20%): 7600.1 lx	(50%): 19000.2 lx
(100%): 38000.4 lx	

C Plane (°): 0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°): 0.0-90.0: 1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

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	20.4	21.0	20.6	21.2	21.4	20.2	20.9	20.5	21.1	21.2
3H	20.3	20.8	20.5	21.1	21.3	20.1	20.7	20.4	20.9	21.1
4H	20.2	20.7	20.5	21.0	21.2	20.0	20.6	20.3	20.8	21.1
6H	20.1	20.6	20.4	20.9	21.2	20.0	20.5	20.3	20.7	21.0
8H	20.1	20.6	20.4	20.8	21.1	19.9	20.4	20.3	20.7	21.0
12H	20.0	20.5	20.4	20.8	21.1	19.9	20.3	20.2	20.6	21.0
X=4H Y=2H	20.2	20.7	20.5	21.0	21.2	20.0	20.6	20.3	20.8	21.1
3H	20.0	20.5	20.4	20.8	21.1	19.9	20.3	20.2	20.6	21.0
4H	19.9	20.4	20.3	20.7	21.0	19.8	20.2	20.2	20.5	20.9
6H	19.9	20.2	20.3	20.6	21.0	19.7	20.1	20.1	20.4	20.8
8H	19.8	20.1	20.2	20.5	20.9	19.7	20.0	20.1	20.4	20.8
12H	19.8	20.1	20.2	20.5	20.9	19.6	19.9	20.0	20.3	20.7
X=8H Y=4H	19.8	20.1	20.2	20.5	20.9	19.7	20.0	20.1	20.4	20.8
6H	19.7	20.0	20.2	20.4	20.9	19.6	19.8	20.0	20.2	20.7
8H	19.7	19.9	20.1	20.3	20.8	19.5	19.7	20.0	20.2	20.7
12H	19.6	19.8	20.1	20.3	20.8	19.5	19.7	19.9	20.1	20.6
X=12H Y=4H	19.8	20.1	20.2	20.5	20.9	19.6	19.9	20.0	20.3	20.7
6H	19.7	19.9	20.1	20.3	20.8	19.5	19.7	20.0	20.2	20.7
8H	19.6	19.8	20.1	20.3	20.8	19.5	19.7	19.9	20.1	20.6
Variations with the observer position at spacings:										
S=1.0H	+5.6/-1.\$					+5.6/-1.\$				
S=1.5H	+8.4/-1.\$					+8.4/-1.\$				
S=2.0H	+10.4/-1.\$					+10.4/-1.\$				

Calculate in accordance with CIE Pub.117. The table is revised with 5129lm ($8\log(F/F_0) = 5.7$).

C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	2662	51.9
	FL (0°-30°)	2278	44.4
	FM (30°-60°)	383	7.5
	FH (60°-80°)	0	0.0
	FVH (80°-90°)	0	0.0
	BACK LIGHT	2468	48.1
	BL (0°-30°)	2114	41.2
	BM (30°-60°)	354	6.9
	BH (60°-80°)	0	0.0
	BVH (80°-90°)	0	0.0
	UP LIGHT	0	0.0
	UL (90°-100°)	0	0.0
	UH (100°-180°)	0	0.0
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B3 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B3 U0 G0

C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 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	37877.6	36.2	36.2	0.71	0.71
1.0-2.0	37399.4	107.4	143.6	2.09	2.80
2.0-3.0	36395.3	174.1	317.7	3.39	6.19
3.0-4.0	34729.8	232.5	550.2	4.53	10.73
4.0-5.0	32307.8	278.0	828.2	5.42	16.15
5.0-6.0	29042.7	305.3	1133.4	5.95	22.10
6.0-7.0	25022.9	310.6	1444.1	6.06	28.15
7.0-8.0	20657.0	295.7	1739.7	5.76	33.92
8.0-9.0	16473.9	267.0	2006.8	5.21	39.12
9.0-10.0	12919.6	233.8	2240.6	4.56	43.68
10.0-11.0	10138.4	202.6	2443.2	3.95	47.63
11.0-12.0	8055.4	176.1	2619.3	3.43	51.07
12.0-13.0	6508.2	154.5	2773.8	3.01	54.08
13.0-14.0	5339.9	136.7	2910.5	2.67	56.74
14.0-15.0	4460.1	122.5	3032.9	2.39	59.13
15.0-16.0	3792.0	111.1	3144.1	2.17	61.30
16.0-17.0	3287.8	102.4	3246.5	2.00	63.30
17.0-18.0	2905.5	95.8	3342.3	1.87	65.16
18.0-19.0	2615.2	91.0	3433.3	1.77	66.94
19.0-20.0	2397.8	87.8	3521.1	1.71	68.65
20.0-21.0	2233.9	85.8	3606.8	1.67	70.32
21.0-22.0	2108.6	84.7	3691.6	1.65	71.97
22.0-23.0	2013.1	84.5	3776.1	1.65	73.62
23.0-24.0	1940.4	84.8	3860.9	1.65	75.27
24.0-25.0	1882.8	85.6	3946.5	1.67	76.94
25.0-26.0	1835.8	86.7	4033.2	1.69	78.63
26.0-27.0	1795.1	87.8	4121.0	1.71	80.35
27.0-28.0	1759.2	89.1	4210.1	1.74	82.08
28.0-29.0	1727.3	90.4	4300.5	1.76	83.85
29.0-30.0	1697.1	91.6	4392.1	1.79	85.63
30.0-31.0	1666.6	92.8	4484.9	1.81	87.44
31.0-32.0	1633.2	93.6	4578.5	1.82	89.26
32.0-33.0	1588.6	93.6	4672.1	1.82	91.09
33.0-34.0	1513.5	91.6	4763.7	1.79	92.88
34.0-35.0	1391.0	86.4	4850.1	1.68	94.56
35.0-36.0	1224.6	78.0	4928.1	1.52	96.08

C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

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	1019.5	66.5	4994.6	1.30	97.38
37.0-38.0	786.4	52.5	5047.1	1.02	98.40
38.0-39.0	549.8	37.5	5084.6	0.73	99.13
39.0-40.0	333.2	23.2	5107.8	0.45	99.59
40.0-41.0	165.0	11.8	5119.6	0.23	99.81
41.0-42.0	67.4	4.9	5124.5	0.10	99.91
42.0-43.0	28.8	2.1	5126.6	0.04	99.95
43.0-44.0	14.7	1.1	5127.7	0.02	99.97
44.0-45.0	7.7	0.6	5128.3	0.01	99.98
45.0-46.0	3.5	0.3	5128.6	0.01	99.99
46.0-47.0	1.8	0.1	5128.7	0.00	99.99
47.0-48.0	2.1	0.2	5128.9	0.00	100.00
48.0-49.0	1.8	0.1	5129.1	0.00	100.00
49.0-50.0	0.7	0.1	5129.1	0.00	100.00
50.0-51.0	0.0	0.0	5129.1	0.00	100.00
51.0-52.0	0.0	0.0	5129.1	0.00	100.00
52.0-53.0	0.0	0.0	5129.1	0.00	100.00
53.0-54.0	0.0	0.0	5129.1	0.00	100.00
54.0-55.0	0.0	0.0	5129.1	0.00	100.00
55.0-56.0	0.0	0.0	5129.1	0.00	100.00
56.0-57.0	0.0	0.0	5129.1	0.00	100.00
57.0-58.0	0.0	0.0	5129.1	0.00	100.00
58.0-59.0	0.0	0.0	5129.1	0.00	100.00
59.0-60.0	0.0	0.0	5129.1	0.00	100.00
60.0-61.0	0.0	0.0	5129.1	0.00	100.00
61.0-62.0	0.0	0.0	5129.1	0.00	100.00
62.0-63.0	0.0	0.0	5129.1	0.00	100.00
63.0-64.0	0.0	0.0	5129.1	0.00	100.00
64.0-65.0	0.0	0.0	5129.1	0.00	100.00
65.0-66.0	0.0	0.0	5129.1	0.00	100.00
66.0-67.0	0.0	0.0	5129.1	0.00	100.00
67.0-68.0	0.0	0.0	5129.1	0.00	100.00
68.0-69.0	0.0	0.0	5129.1	0.00	100.00
69.0-70.0	0.0	0.0	5129.1	0.00	100.00
70.0-71.0	0.0	0.0	5129.1	0.00	100.00
71.0-72.0	0.0	0.0	5129.1	0.00	100.00

C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C180.0								
G0.0	38000.4	38000.4								
G1.0	38107.2	37402.2								
G2.0	37812.3	36276.0								
G3.0	36976.7	34516.4								
G4.0	35432.0	31994.2								
G5.0	33126.1	28678.7								
G6.0	29890.6	24475.6								
G7.0	25867.3	19858.3								
G8.0	21190.9	15711.3								
G9.0	16671.9	12321.4								
G10.0	12867.6	9817.5								
G11.0	9936.8	7931.5								
G12.0	7873.9	6479.5								
G13.0	6348.9	5330.7								
G14.0	5225.4	4454.5								
G15.0	4371.6	3788.8								
G16.0	3731.2	3276.2								
G17.0	3242.5	2901.3								
G18.0	2864.8	2613.4								
G19.0	2585.3	2397.1								
G20.0	2373.3	2235.6								
G21.0	2217.4	2109.3								
G22.0	2099.4	2008.2								
G23.0	2009.6	1935.1								
G24.0	1939.3	1877.6								
G25.0	1884.6	1829.8								
G26.0	1841.0	1787.7								
G27.0	1800.3	1751.2								
G28.0	1766.6	1718.9								
G29.0	1735.7	1688.0								
G30.0	1704.8	1659.9								
G31.0	1672.5	1629.0								
G32.0	1641.6	1589.7								
G33.0	1603.7	1519.5								
G34.0	1539.1	1391.7								
G35.0	1414.1	1218.9								
G36.0	1242.8	1022.3								

C Plane (°):0.0-180.0: 180.0
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Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	1026.6	786.4								
G38.0	786.4	546.3								
G39.0	544.9	321.6								
G40.0	321.6	144.6								
G41.0	146.1	47.8								
G42.0	50.5	25.3								
G43.0	28.1	11.2								
G44.0	12.6	7.0								
G45.0	7.0	4.2								
G46.0	1.4	1.4								
G47.0	2.8	1.4								
G48.0	2.8	1.4								
G49.0	1.4	1.4								
G50.0	0.0	0.0								
G51.0	0.0	0.0								
G52.0	0.0	0.0								
G53.0	0.0	0.0								
G54.0	0.0	0.0								
G55.0	0.0	0.0								
G56.0	0.0	0.0								
G57.0	0.0	0.0								
G58.0	0.0	0.0								
G59.0	0.0	0.0								
G60.0	0.0	0.0								
G61.0	0.0	0.0								
G62.0	0.0	0.0								
G63.0	0.0	0.0								
G64.0	0.0	0.0								
G65.0	0.0	0.0								
G66.0	0.0	0.0								
G67.0	0.0	0.0								
G68.0	0.0	0.0								
G69.0	0.0	0.0								
G70.0	0.0	0.0								
G71.0	0.0	0.0								
G72.0	0.0	0.0								
G73.0	0.0	0.0								

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

Unit: cd

Inspector: