

Report No.:

Test Time: 2025-10-07 11:23

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 24D

Luminous Width (mm): -90

Current: 0.124 A

Power Factor: 0.967

Luminous Length (mm): -90

Voltage: 220.0 V

Power: 26.50 W

Photometric Results

CIE Class: Direct

Measurement Flux: 3081.5 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H31.2

Vertical Diffuse Angle(50%): V31.2

Luminaire Efficacy Rating (LER): 116.33

Max. Intensity: 10511.21 cd

S/MH(C0/C180): 0.52

Total Rated Lamp Lumens: 3081.5 lm

Efficiency: 100%

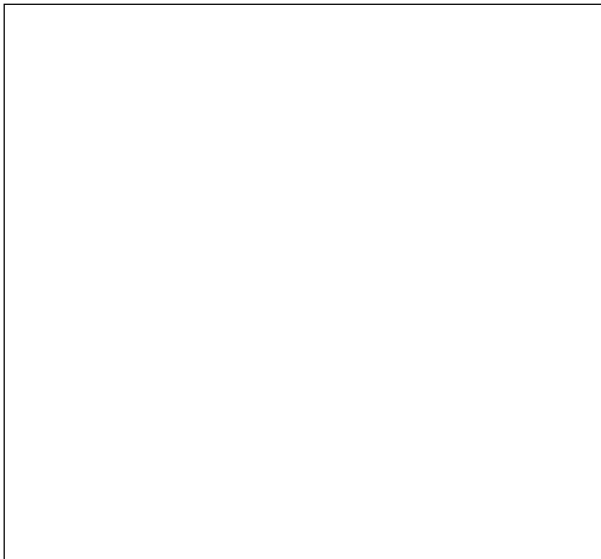
Upward Ratio: 0%

Central Intensity: 10505.59 cd

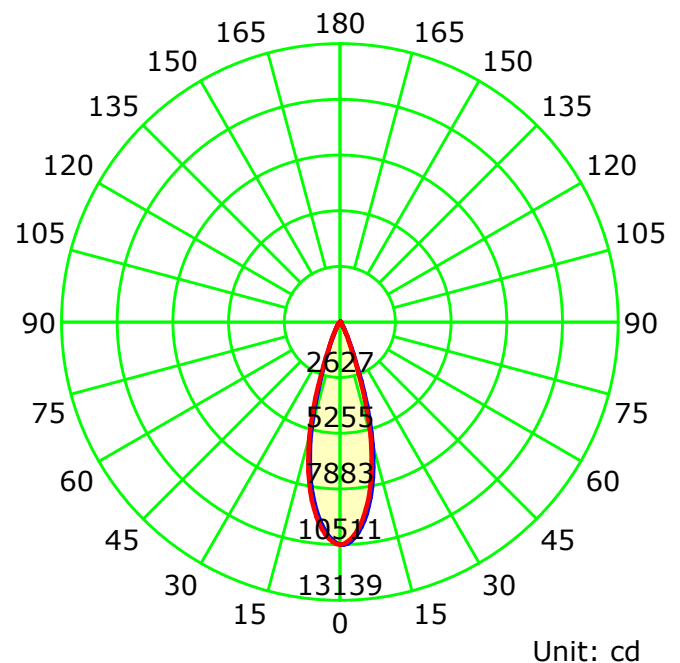
Pos of Max. Intensity: H0 V1

S/MH(C90/C270): 0.52

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

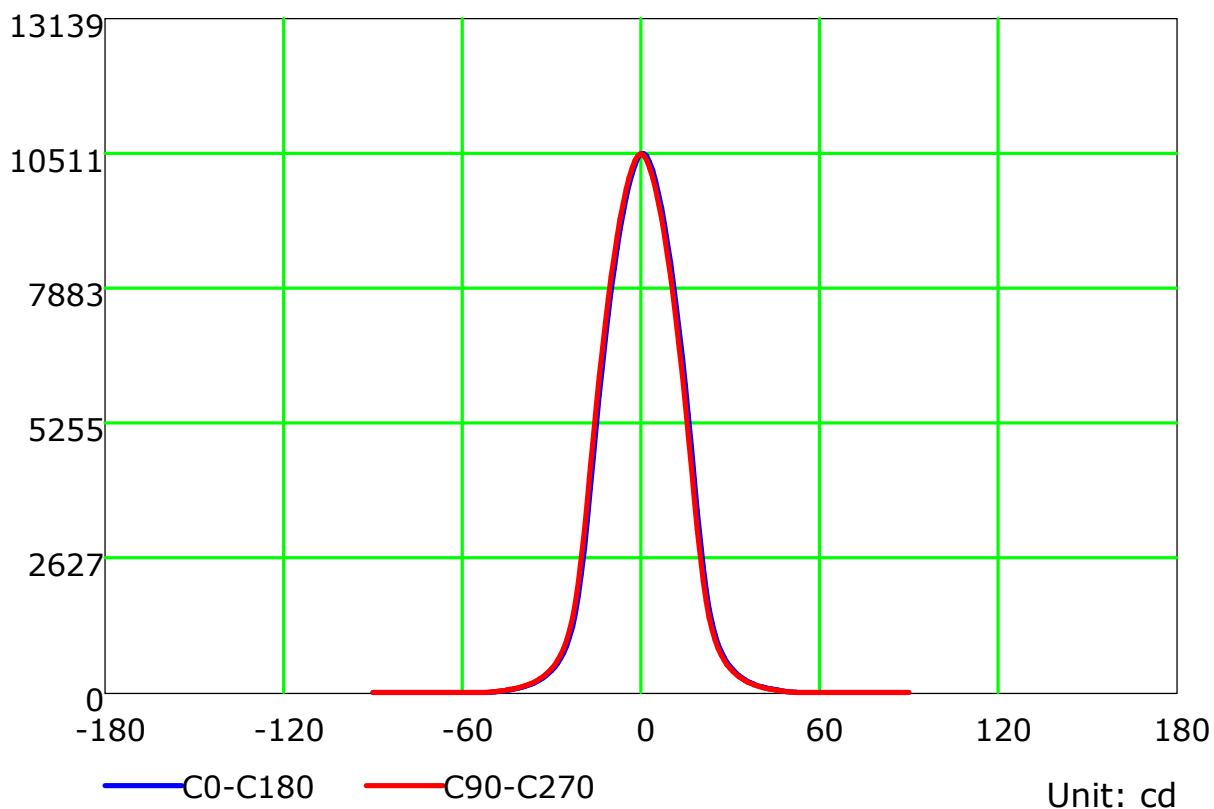
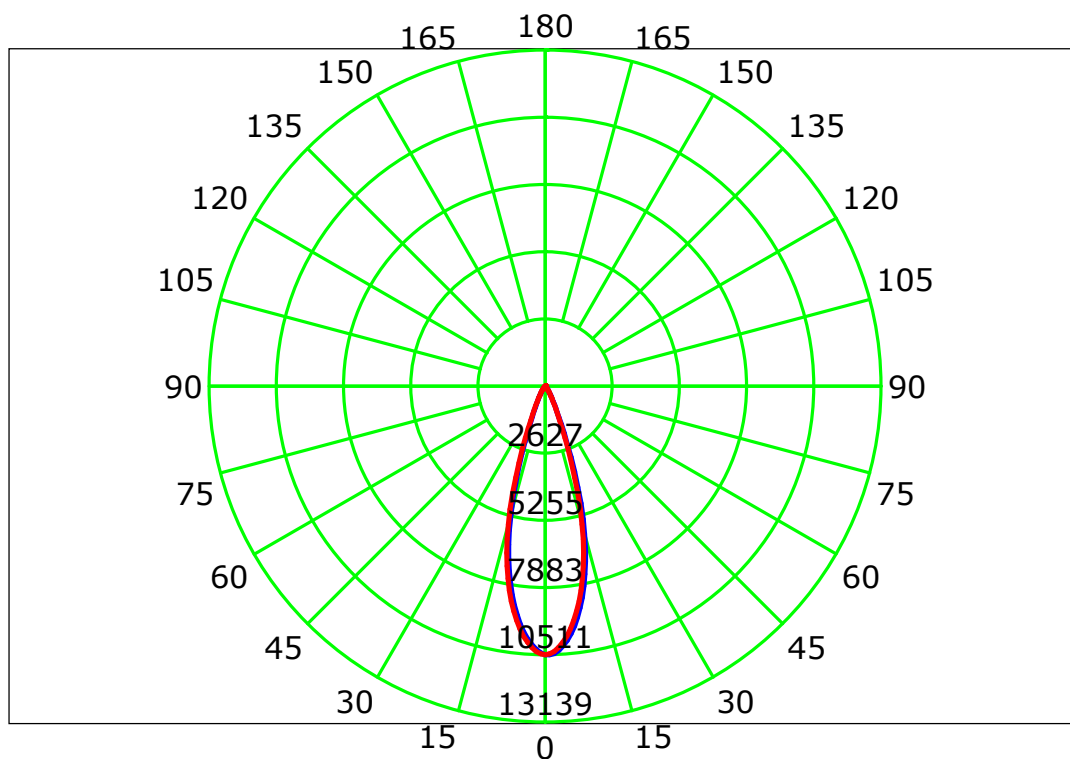
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

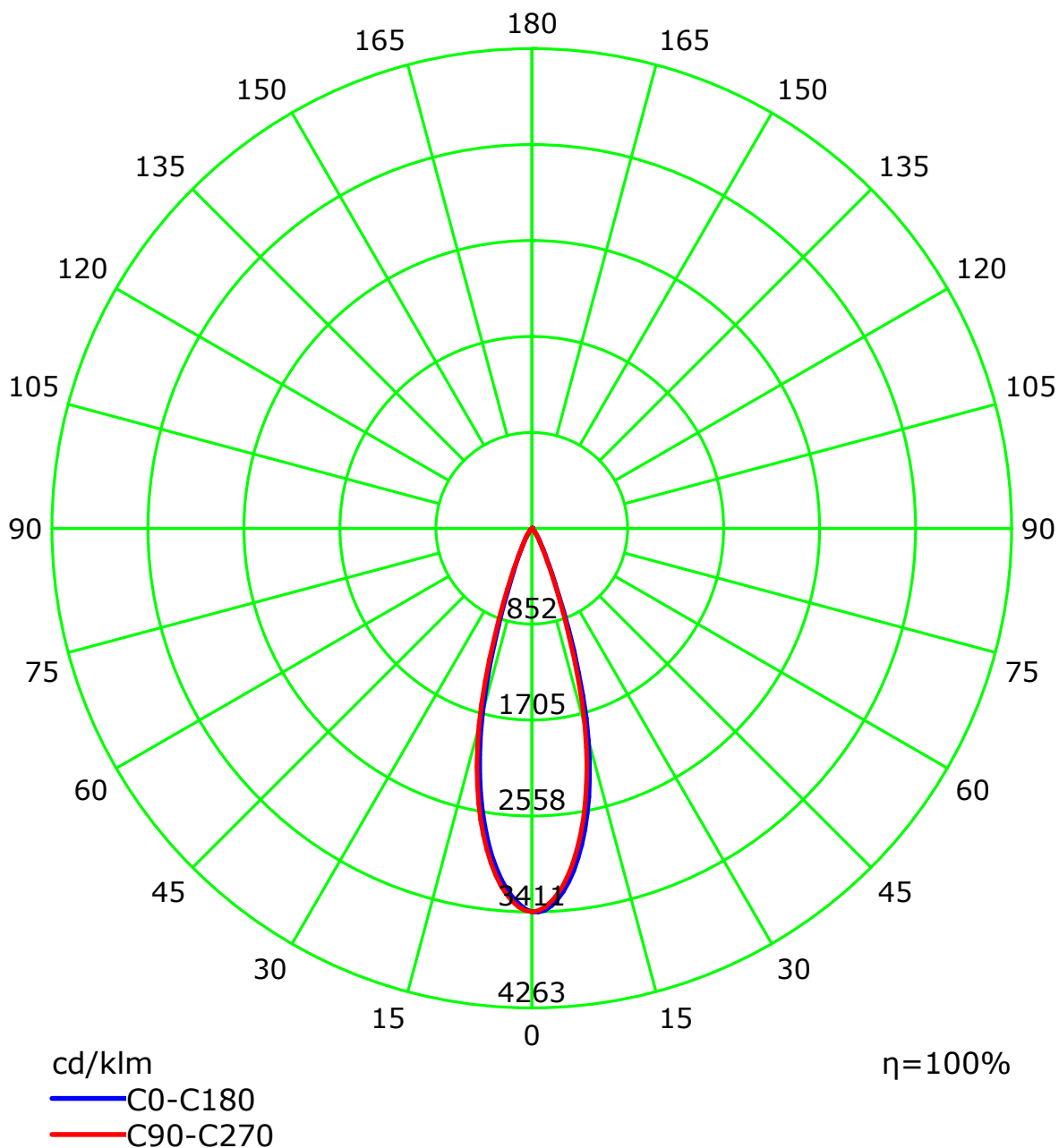
Luminous Intensity Distribution Curve



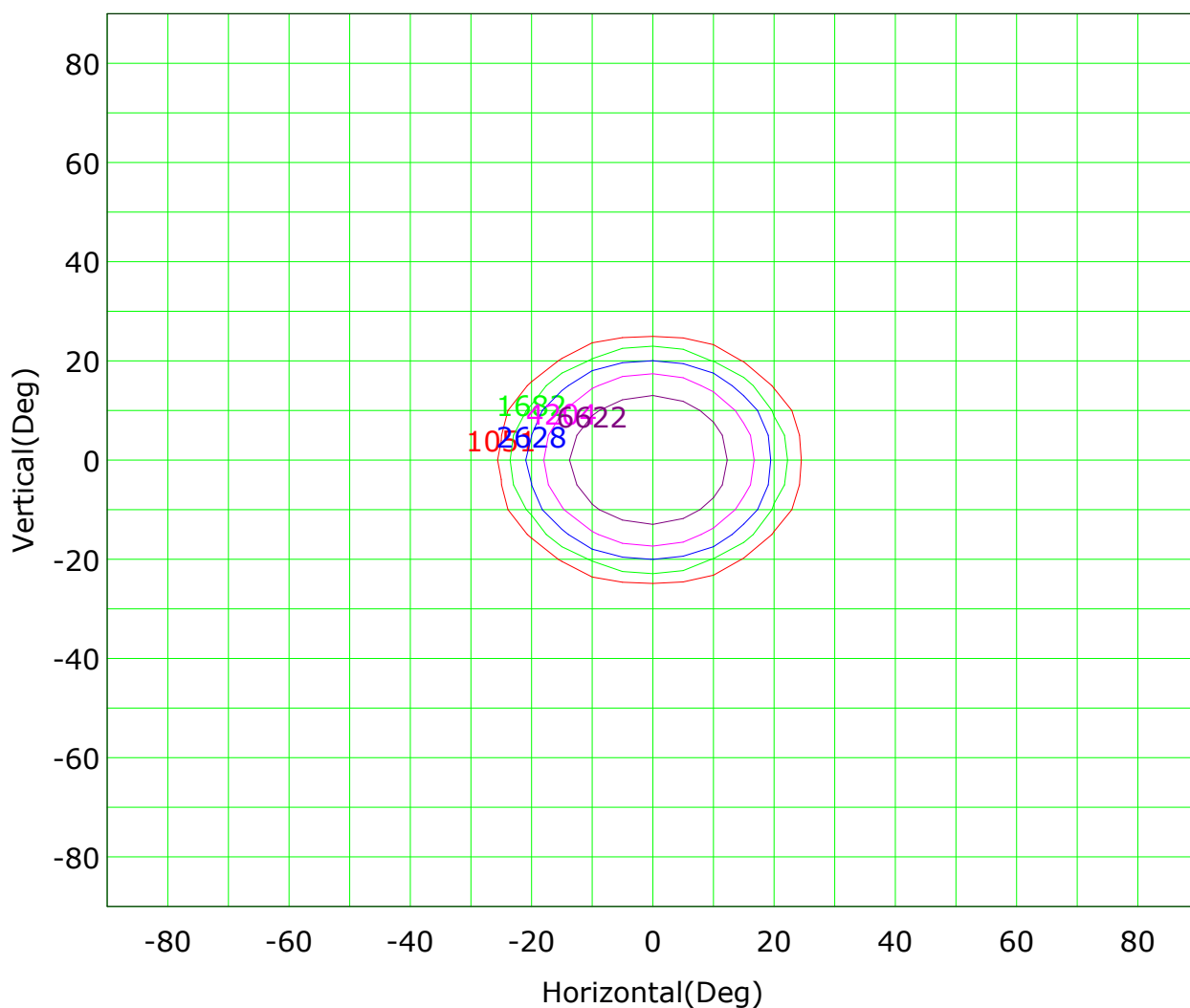
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

Luminous Intensity Distribution Curve(cd/klm)



Isocandela (rectangle)



Imax (100%): 10511 cd

(10%): 1051 cd	(16%): 1682 cd
(25%): 2628 cd	(40%): 4204 cd
(63%): 6622 cd	(100%): 10511 cd

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

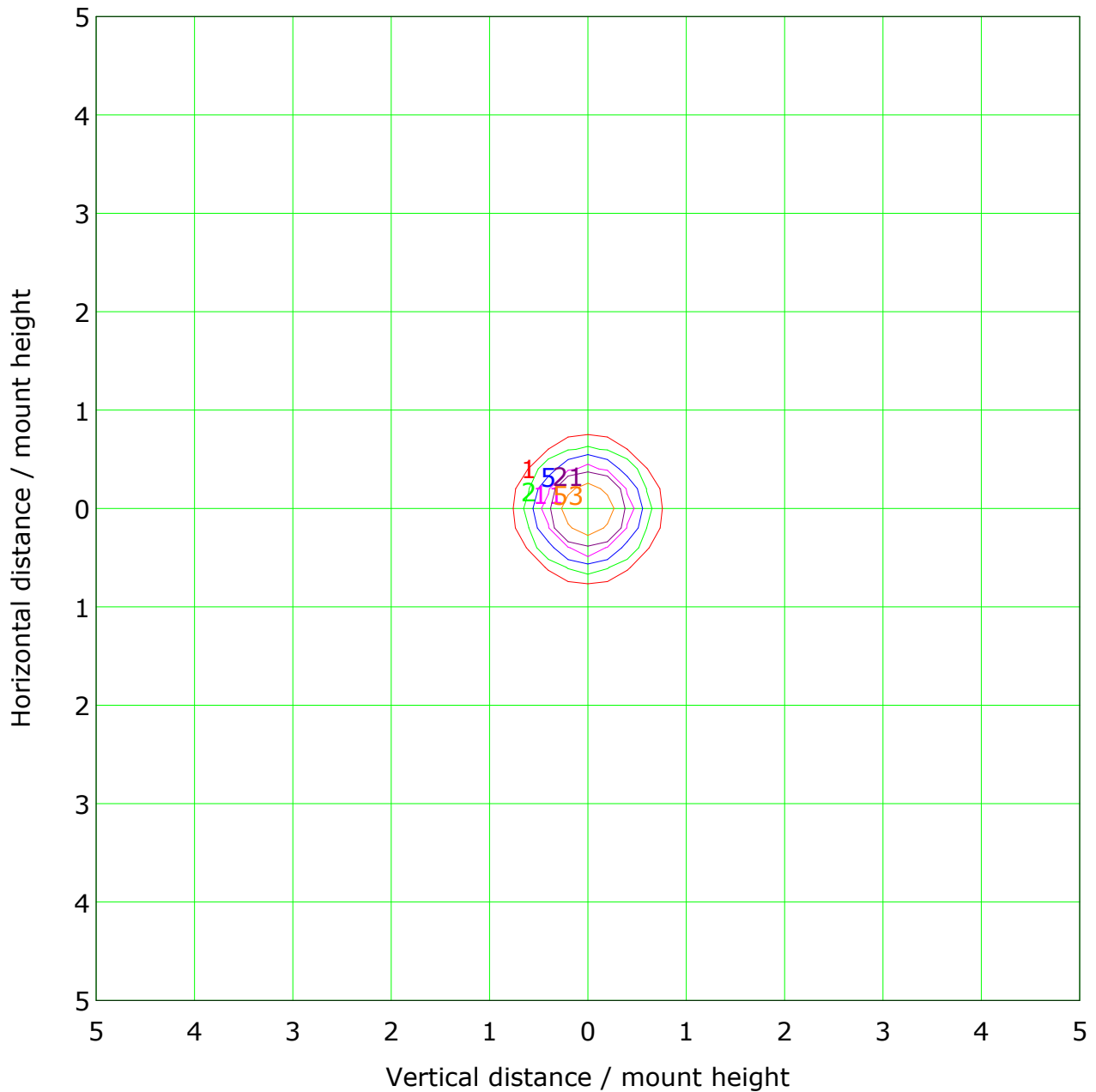
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 105.1 lx

— (1%): 1.1 lx	— (2%): 2.1 lx
— (5%): 5.3 lx	— (10%): 10.5 lx
— (20%): 21.0 lx	— (50%): 52.5 lx
— (100%): 105.1 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

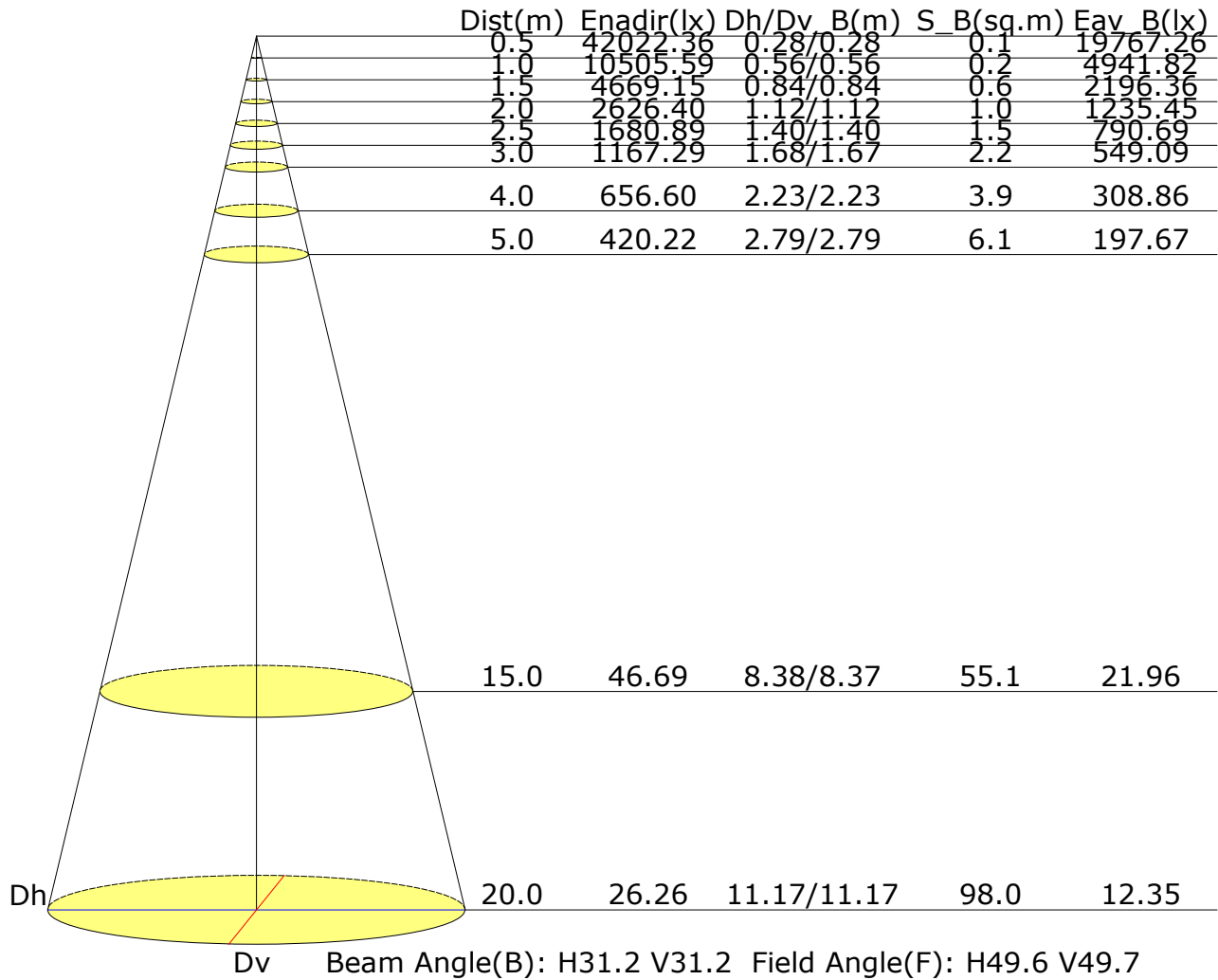
Test Device: CHL-6E

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

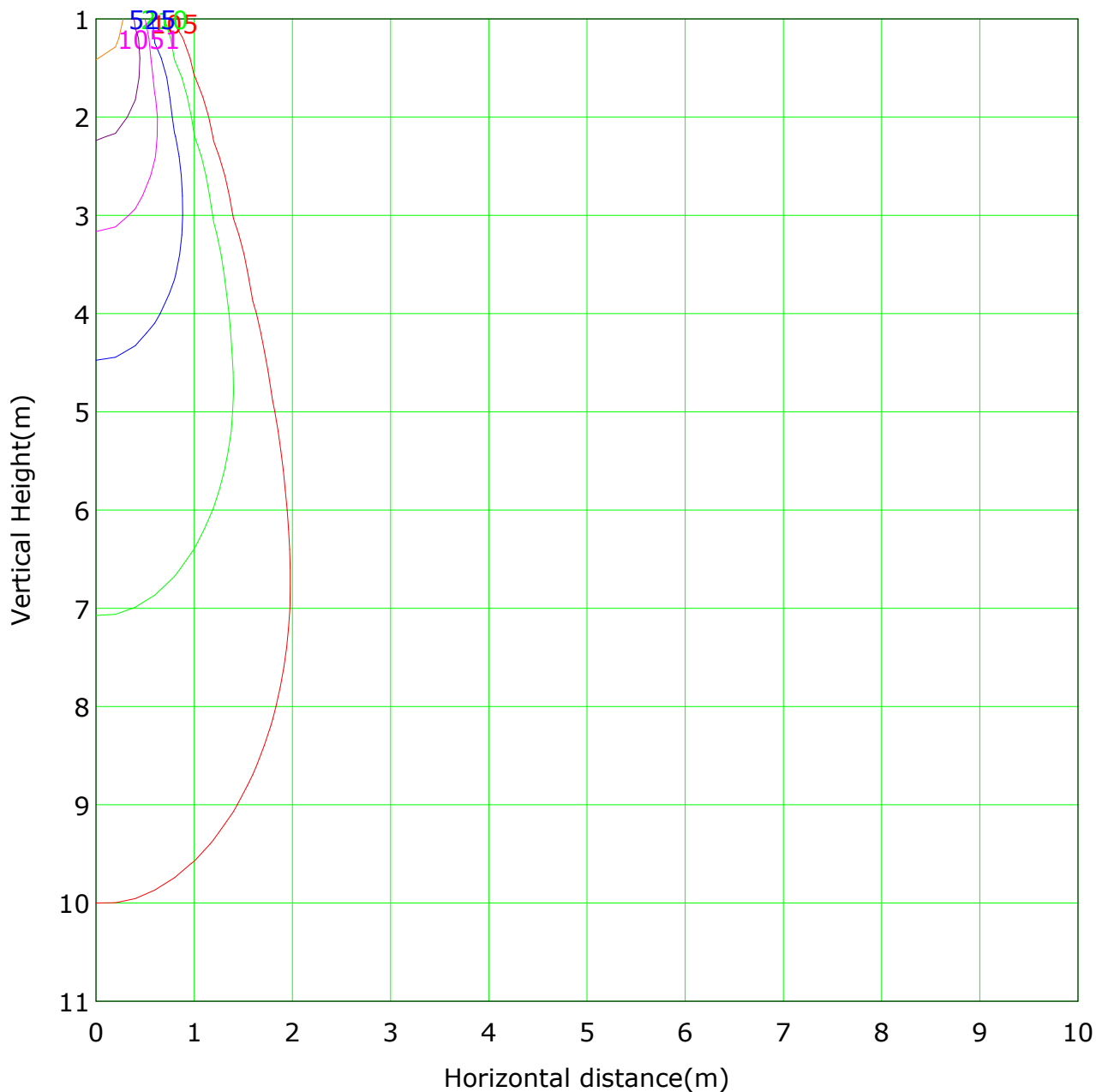
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

Vertical IsoLux Plot



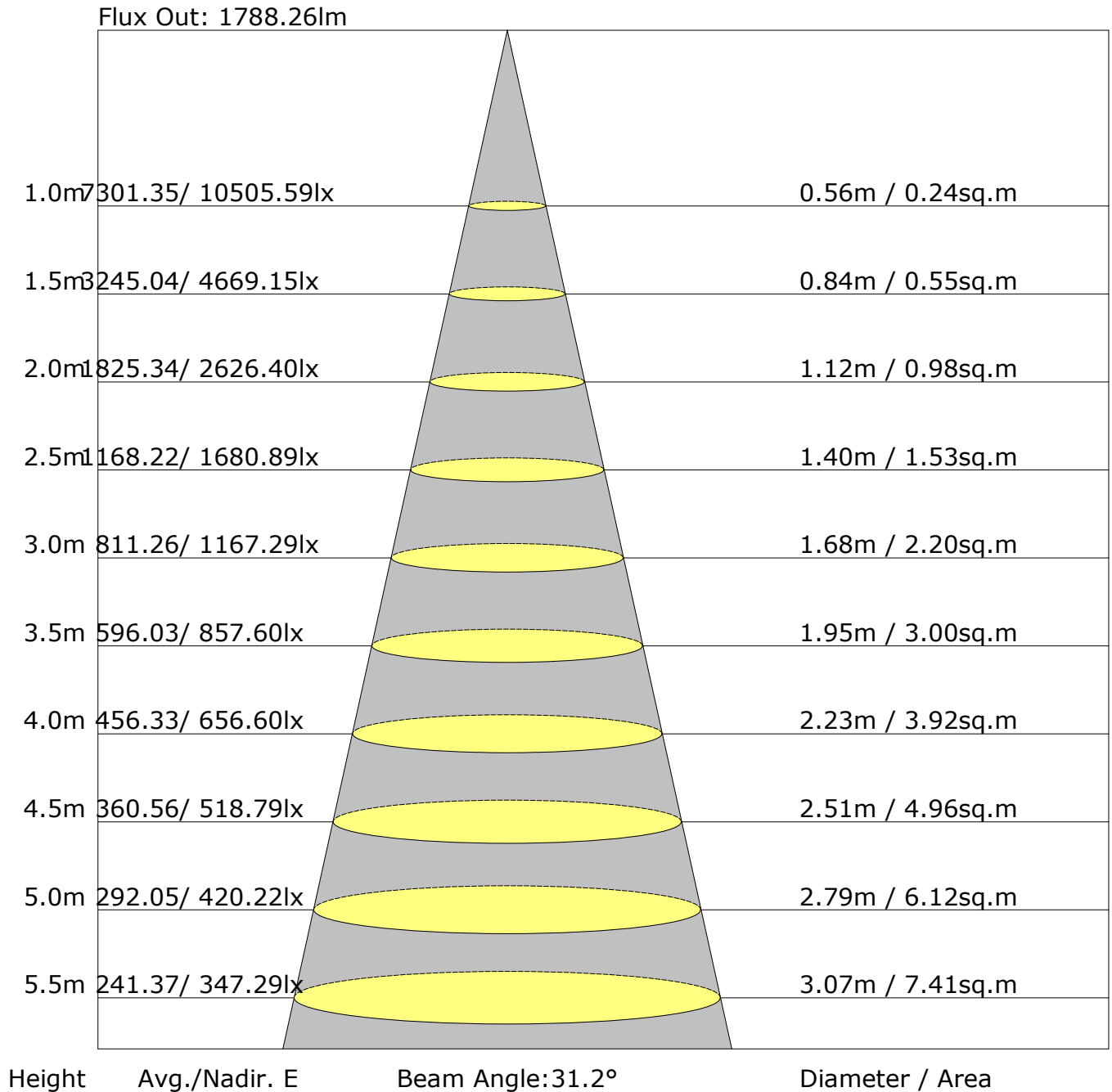
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 10505.6 lx
— (1%): 105.1 lx — (2%): 210.1 lx
— (5%): 525.3 lx — (10%): 1050.6 lx
— (20%): 2101.1 lx — (50%): 5252.8 lx
— (100%): 10505.6 lx

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



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:

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	12.4	13.0	12.6	13.2	13.4	12.0	12.7	12.3	12.8	13.0
3H	12.2	12.8	12.5	13.0	13.3	11.9	12.5	12.2	12.7	12.9
4H	12.2	12.7	12.5	13.0	13.2	11.8	12.4	12.1	12.6	12.9
6H	12.1	12.6	12.4	12.9	13.2	11.7	12.2	12.1	12.5	12.8
8H	12.0	12.5	12.4	12.8	13.1	11.7	12.2	12.0	12.5	12.8
12H	12.0	12.5	12.4	12.8	13.1	11.7	12.1	12.0	12.4	12.7
X=4H Y=2H	12.2	12.7	12.5	13.0	13.2	11.8	12.4	12.1	12.6	12.9
3H	12.0	12.5	12.4	12.8	13.1	11.7	12.1	12.0	12.4	12.7
4H	11.9	12.3	12.3	12.7	13.0	11.6	12.0	11.9	12.3	12.7
6H	11.8	12.2	12.2	12.6	13.0	11.5	11.9	11.9	12.2	12.6
8H	11.8	12.1	12.2	12.5	12.9	11.4	11.8	11.9	12.2	12.6
12H	11.7	12.0	12.2	12.4	12.9	11.4	11.7	11.8	12.1	12.5
X=8H Y=4H	11.8	12.1	12.2	12.5	12.9	11.4	11.8	11.9	12.2	12.6
6H	11.7	12.0	12.1	12.4	12.8	11.3	11.6	11.8	12.0	12.5
8H	11.6	11.9	12.1	12.3	12.8	11.3	11.5	11.8	12.0	12.4
12H	11.6	11.8	12.1	12.3	12.8	11.2	11.4	11.7	11.9	12.4
X=12H Y=4H	11.7	12.0	12.2	12.4	12.9	11.4	11.7	11.8	12.1	12.5
6H	11.6	11.9	12.1	12.3	12.8	11.3	11.5	11.8	12.0	12.4
8H	11.6	11.8	12.1	12.3	12.8	11.2	11.4	11.7	11.9	12.4
Variations with the observer position at spacings:										
S=1.0H	+5.1/-1.\$					+5.0/-1.\$				
S=1.5H	+7.9/-1.\$					+7.8/-1.\$				
S=2.0H	+9.9/-1.\$					+9.8/-1.\$				

Calculate in accordance with CIE Pub.117. The table is revised with 3081lm ($8\log(F/F_0) = 3.9$).

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	1591	51.6
	FL (0°-30°)	1487	48.2
	FM (30°-60°)	104	3.4
	FH (60°-80°)	0	0.0
	FVH (80°-90°)	0	0.0
	BACK LIGHT	1491	48.4
	BL (0°-30°)	1396	45.3
	BM (30°-60°)	94	3.1
	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	10488.4	10.0	10.0	0.33	0.33
1.0-2.0	10425.9	29.9	40.0	0.97	1.30
2.0-3.0	10307.2	49.3	89.3	1.60	2.90
3.0-4.0	10138.4	67.9	157.1	2.20	5.10
4.0-5.0	9929.1	85.4	242.6	2.77	7.87
5.0-6.0	9679.2	101.7	344.3	3.30	11.17
6.0-7.0	9390.6	116.6	460.9	3.78	14.96
7.0-8.0	9066.9	129.8	590.7	4.21	19.17
8.0-9.0	8706.7	141.1	731.8	4.58	23.75
9.0-10.0	8314.9	150.5	882.3	4.88	28.63
10.0-11.0	7889.0	157.7	1039.9	5.12	33.75
11.0-12.0	7433.3	162.5	1202.4	5.27	39.02
12.0-13.0	6950.6	165.0	1367.4	5.35	44.38
13.0-14.0	6436.6	164.8	1532.2	5.35	49.72
14.0-15.0	5890.0	161.7	1693.9	5.25	54.97
15.0-16.0	5310.4	155.6	1849.5	5.05	60.02
16.0-17.0	4699.5	146.4	1995.9	4.75	64.77
17.0-18.0	4075.3	134.4	2130.3	4.36	69.13
18.0-19.0	3471.8	120.8	2251.1	3.92	73.05
19.0-20.0	2910.1	106.5	2357.6	3.46	76.51
20.0-21.0	2406.6	92.4	2450.0	3.00	79.51
21.0-22.0	1978.0	79.5	2529.5	2.58	82.09
22.0-23.0	1625.1	68.2	2597.7	2.21	84.30
23.0-24.0	1341.5	58.7	2656.4	1.90	86.21
24.0-25.0	1117.1	50.8	2707.2	1.65	87.85
25.0-26.0	939.5	44.4	2751.6	1.44	89.29
26.0-27.0	798.0	39.0	2790.6	1.27	90.56
27.0-28.0	682.8	34.6	2825.2	1.12	91.68
28.0-29.0	587.0	30.7	2855.9	1.00	92.68
29.0-30.0	506.3	27.3	2883.2	0.89	93.57
30.0-31.0	439.5	24.5	2907.7	0.79	94.36
31.0-32.0	382.7	21.9	2929.6	0.71	95.07
32.0-33.0	331.8	19.5	2949.2	0.63	95.71
33.0-34.0	288.2	17.4	2966.6	0.57	96.27
34.0-35.0	251.0	15.6	2982.2	0.51	96.78
35.0-36.0	217.7	13.9	2996.1	0.45	97.23

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	189.2	12.3	3008.4	0.40	97.63
37.0-38.0	164.3	11.0	3019.4	0.36	97.98
38.0-39.0	142.2	9.7	3029.1	0.31	98.30
39.0-40.0	123.2	8.6	3037.7	0.28	98.58
40.0-41.0	107.1	7.6	3045.3	0.25	98.83
41.0-42.0	93.0	6.8	3052.1	0.22	99.05
42.0-43.0	80.0	5.9	3058.0	0.19	99.24
43.0-44.0	68.1	5.1	3063.1	0.17	99.40
44.0-45.0	57.2	4.4	3067.5	0.14	99.55
45.0-46.0	47.7	3.7	3071.3	0.12	99.67
46.0-47.0	39.0	3.1	3074.4	0.10	99.77
47.0-48.0	29.8	2.4	3076.8	0.08	99.85
48.0-49.0	21.8	1.8	3078.6	0.06	99.91
49.0-50.0	15.8	1.3	3079.9	0.04	99.95
50.0-51.0	10.5	0.9	3080.8	0.03	99.98
51.0-52.0	5.6	0.5	3081.3	0.02	99.99
52.0-53.0	2.1	0.2	3081.4	0.01	100.00
53.0-54.0	0.3	0.0	3081.5	0.00	100.00
54.0-55.0	0.0	0.0	3081.5	0.00	100.00
55.0-56.0	0.0	0.0	3081.5	0.00	100.00
56.0-57.0	0.0	0.0	3081.5	0.00	100.00
57.0-58.0	0.0	0.0	3081.5	0.00	100.00
58.0-59.0	0.0	0.0	3081.5	0.00	100.00
59.0-60.0	0.0	0.0	3081.5	0.00	100.00
60.0-61.0	0.0	0.0	3081.5	0.00	100.00
61.0-62.0	0.0	0.0	3081.5	0.00	100.00
62.0-63.0	0.0	0.0	3081.5	0.00	100.00
63.0-64.0	0.0	0.0	3081.5	0.00	100.00
64.0-65.0	0.0	0.0	3081.5	0.00	100.00
65.0-66.0	0.0	0.0	3081.5	0.00	100.00
66.0-67.0	0.0	0.0	3081.5	0.00	100.00
67.0-68.0	0.0	0.0	3081.5	0.00	100.00
68.0-69.0	0.0	0.0	3081.5	0.00	100.00
69.0-70.0	0.0	0.0	3081.5	0.00	100.00
70.0-71.0	0.0	0.0	3081.5	0.00	100.00
71.0-72.0	0.0	0.0	3081.5	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	10505.6	10505.6								
G1.0	10511.2	10431.2								
G2.0	10463.5	10297.8								
G3.0	10346.9	10120.8								
G4.0	10182.6	9903.2								
G5.0	9980.4	9650.4								
G6.0	9727.6	9358.3								
G7.0	9448.2	9028.3								
G8.0	9123.8	8667.4								
G9.0	8768.5	8267.1								
G10.0	8386.5	7837.4								
G11.0	7958.2	7374.0								
G12.0	7514.4	6886.7								
G13.0	7041.2	6360.1								
G14.0	6537.0	5808.2								
G15.0	5995.0	5219.8								
G16.0	5417.8	4608.9								
G17.0	4798.5	3972.8								
G18.0	4158.1	3371.7								
G19.0	3545.9	2811.4								
G20.0	2965.9	2317.1								
G21.0	2440.7	1902.8								
G22.0	2006.8	1561.6								
G23.0	1640.2	1292.0								
G24.0	1352.3	1081.3								
G25.0	1124.8	910.0								
G26.0	947.9	775.2								
G27.0	804.7	664.2								
G28.0	690.9	571.5								
G29.0	591.2	494.3								
G30.0	509.8	429.7								
G31.0	443.8	375.0								
G32.0	386.2	325.8								
G33.0	332.8	282.3								
G34.0	290.7	247.2								
G35.0	252.8	213.4								
G36.0	217.7	186.8								

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:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	191.0	161.5								
G38.0	165.7	139.0								
G39.0	141.8	122.2								
G40.0	123.6	105.3								
G41.0	108.1	91.3								
G42.0	94.1	78.6								
G43.0	80.1	67.4								
G44.0	70.2	54.8								
G45.0	59.0	44.9								
G46.0	50.5	36.5								
G47.0	42.1	26.7								
G48.0	29.5	21.1								
G49.0	22.5	14.0								
G50.0	18.3	8.4								
G51.0	11.2	4.2								
G52.0	7.0	0.0								
G53.0	1.4	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

[illegible]

Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector: