

Report No.:AX-MG-FL-AC-F-27W-220

Test Time: 2025-09-20 15:51

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 24D

Luminous Width (mm): -20

Current: 0.121 A

Power Factor: 0.962

Luminous Length (mm): -650

Voltage: 232.4 V

Power: 27.20 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 2655.5 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H29.1

Vertical Diffuse Angle(50%): V29.1

Luminaire Efficacy Rating (LER): 97.68

Max. Intensity: 8939.8 cd

S/MH(C0/C180): 0.48

Total Rated Lamp Lumens: 2655.5 lm

Efficiency: 100%

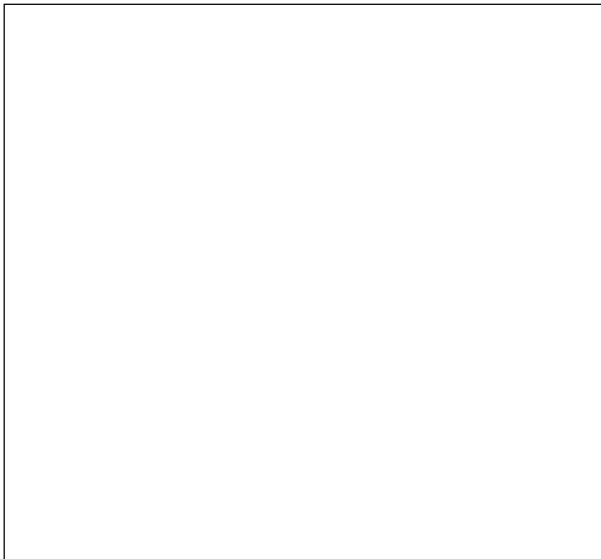
Upward Ratio: 0%

Central Intensity: 8939.79 cd

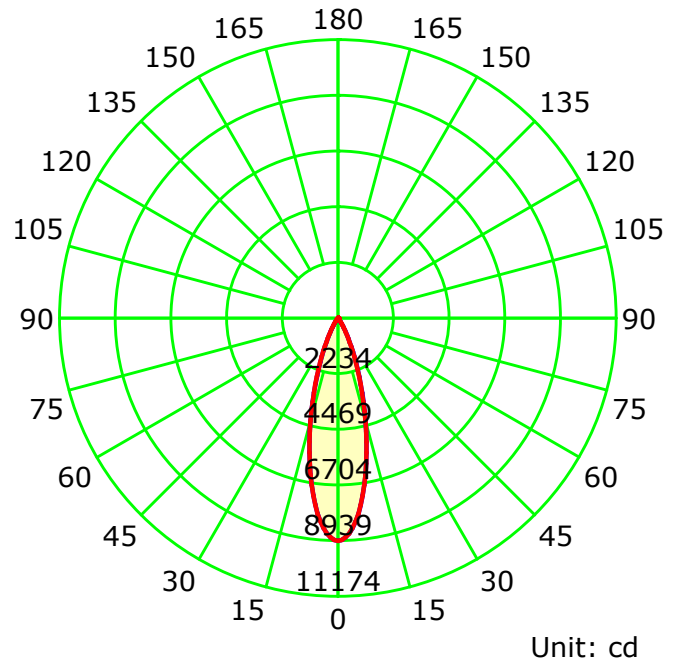
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 0.48

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

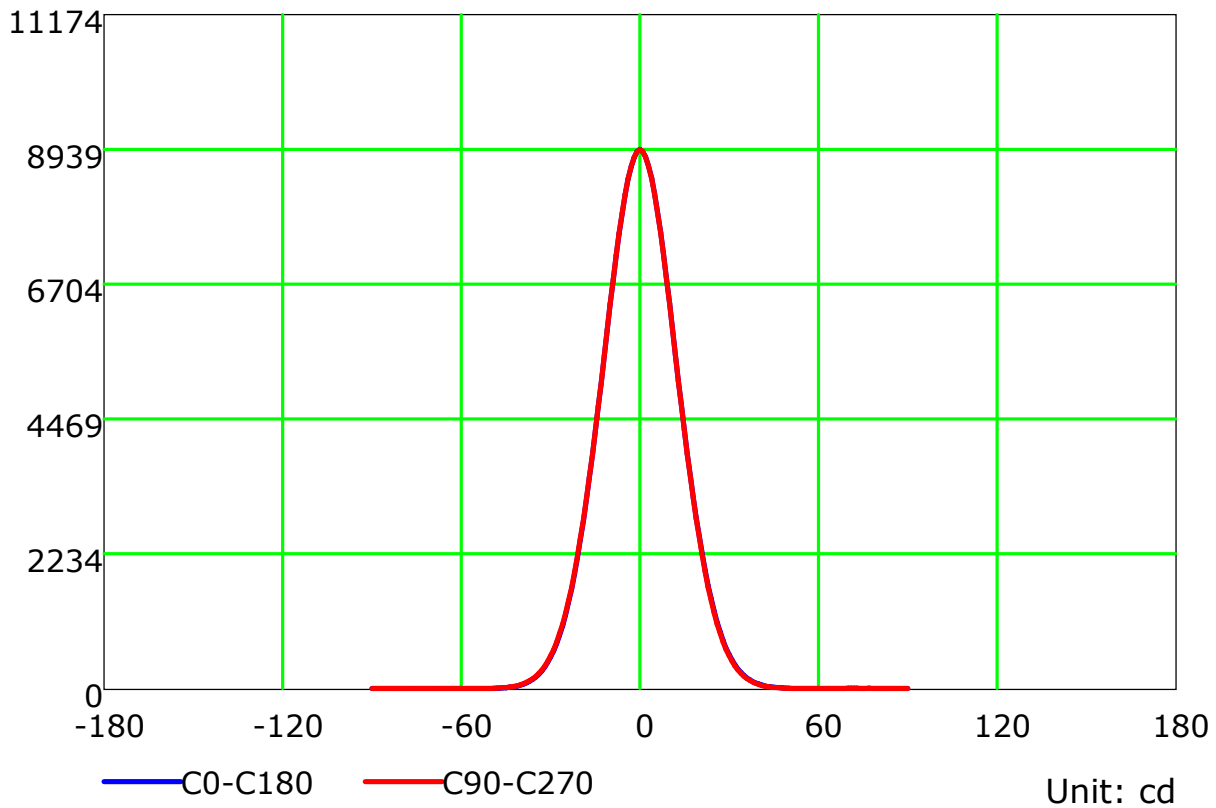
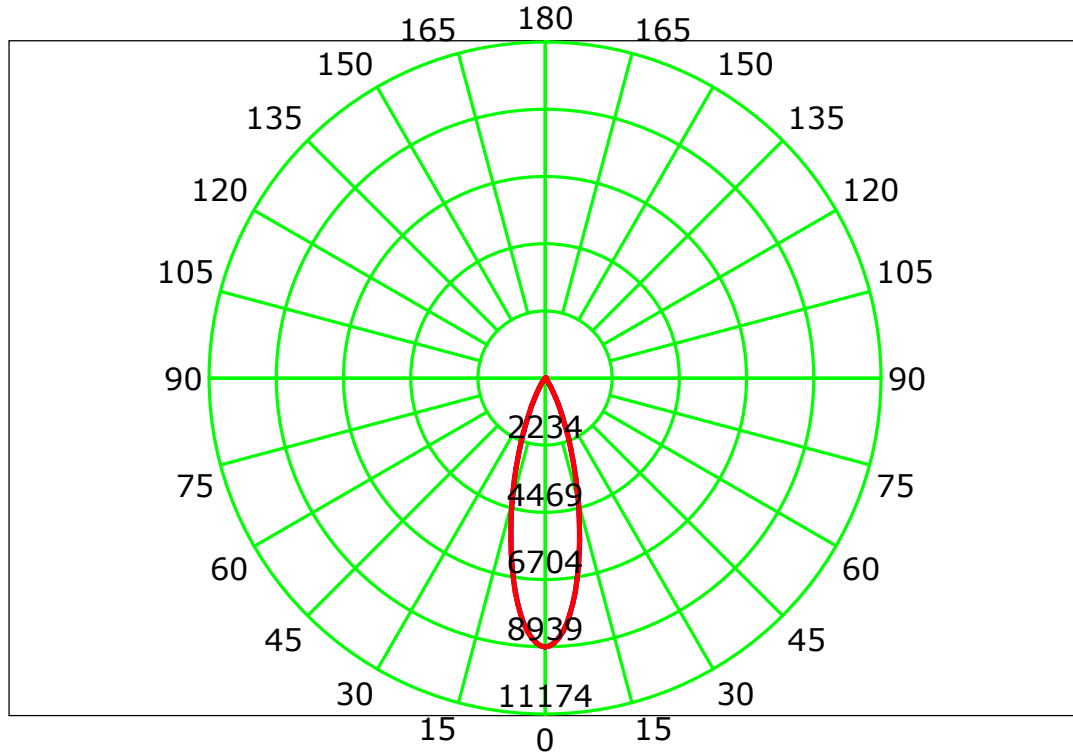
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

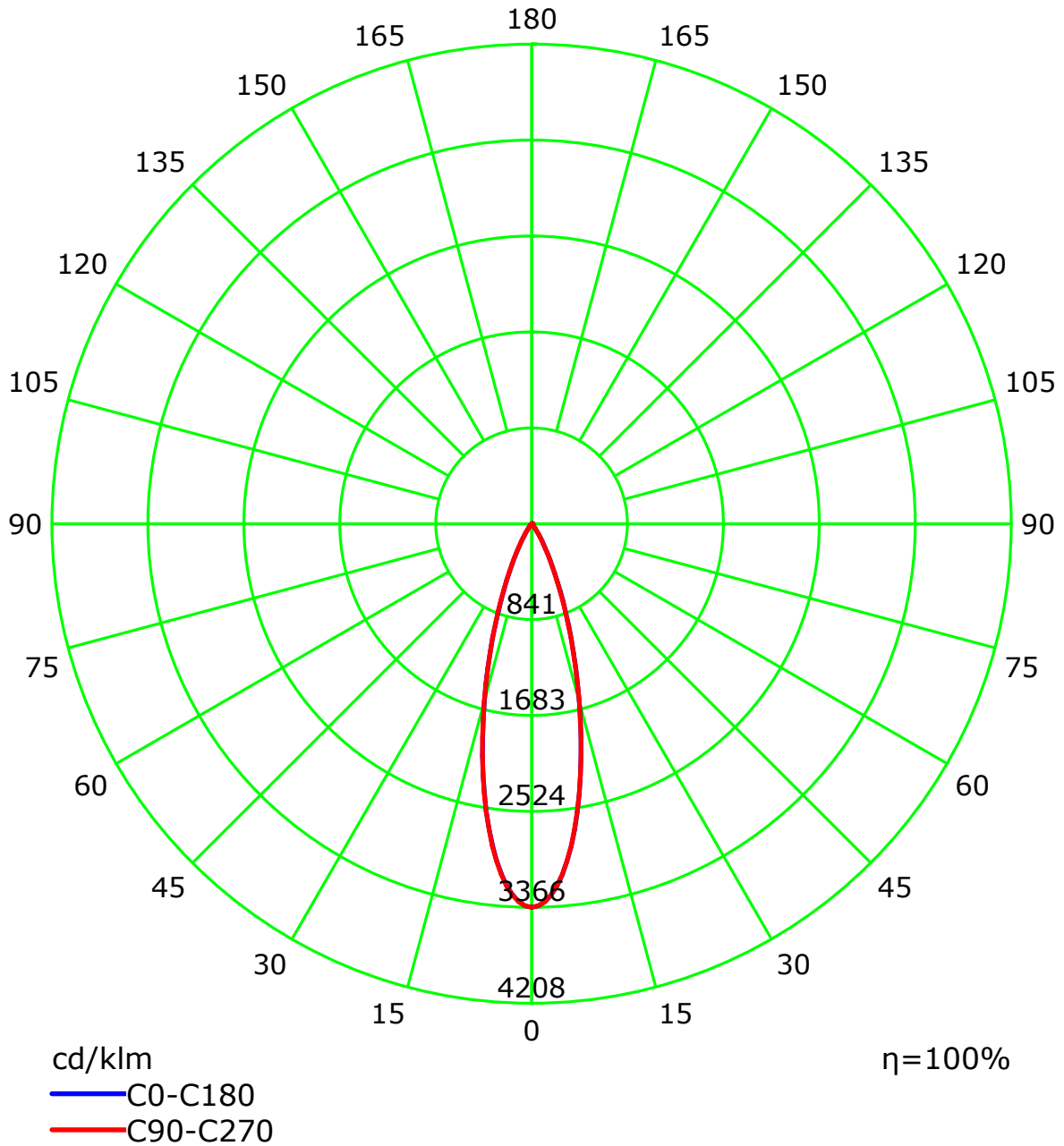
## Luminous Intensity Distribution Curve



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:

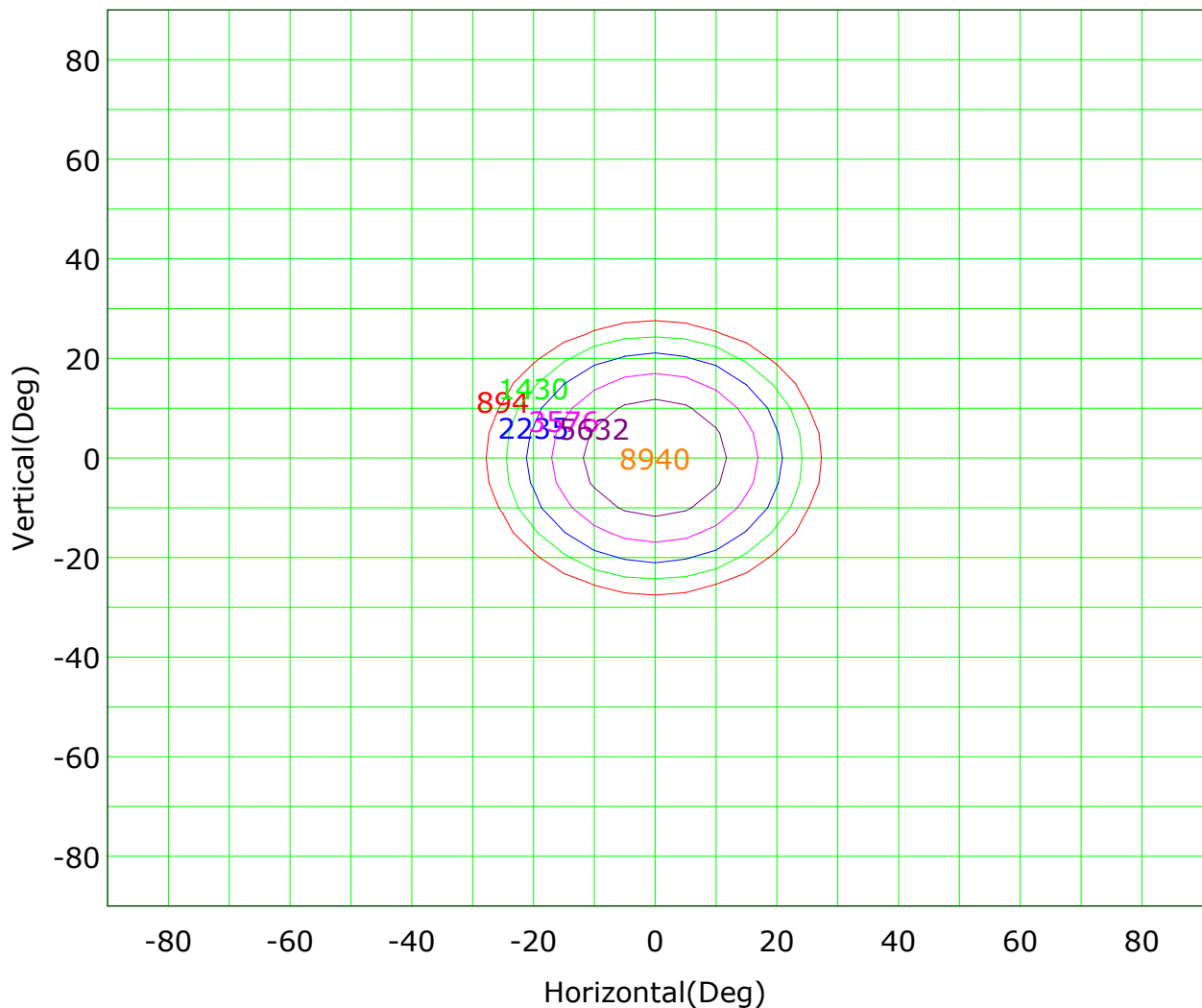
## Luminous Intensity Distribution Curve(cd/klm)



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)



Imax (100%): 8940 cd

( 10%): 894 cd	( 16%): 1430 cd
( 25%): 2235 cd	( 40%): 3576 cd
( 63%): 5632 cd	(100%): 8940 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

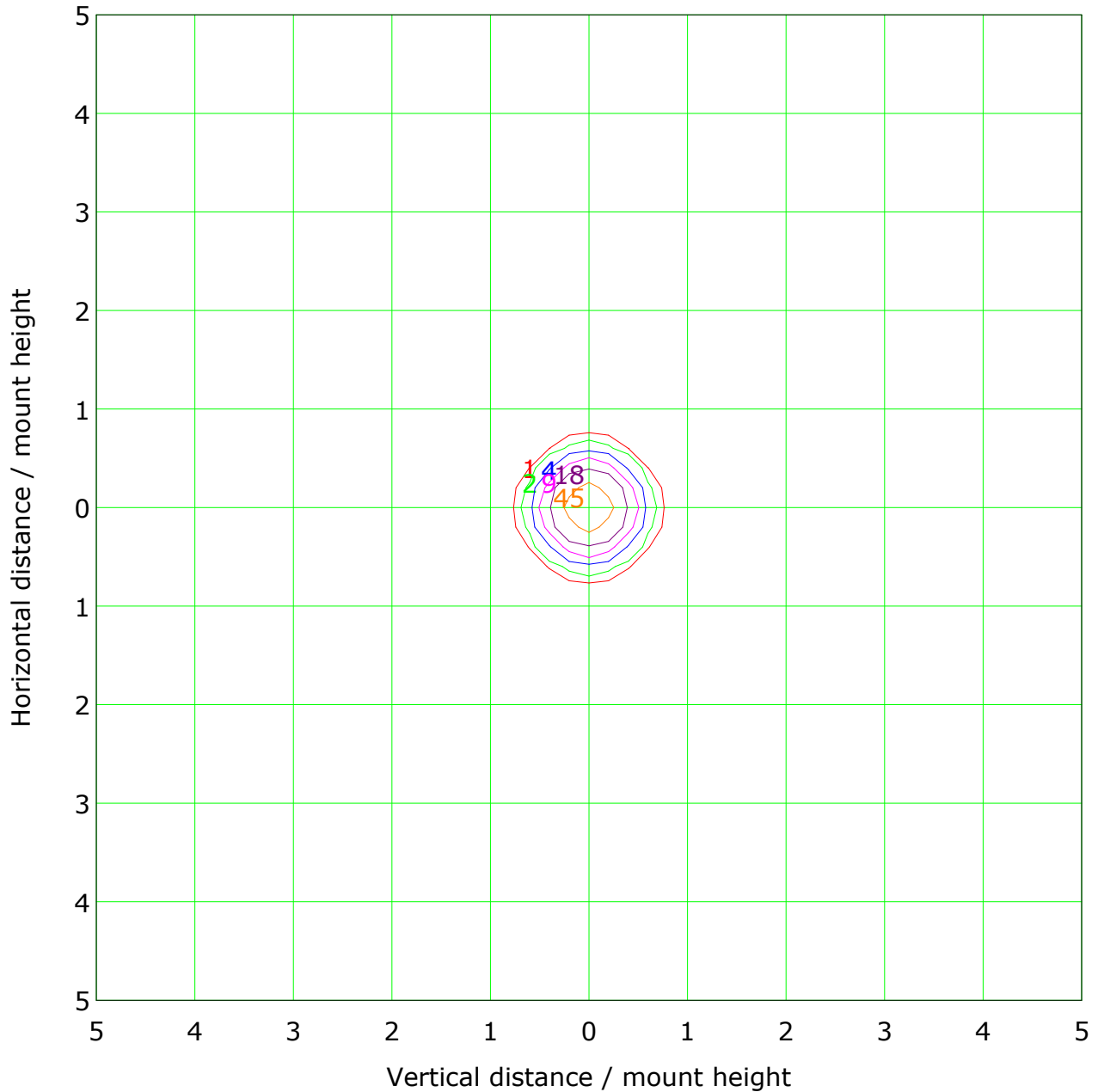
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

## IsoLux Plot



Mounting Height: 10.0m    Max Lux(100%): 89.4 lx

( 1%): 0.9 lx	( 2%): 1.8 lx
( 5%): 4.5 lx	( 10%): 8.9 lx
( 20%): 17.9 lx	( 50%): 44.7 lx
(100%): 89.4 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

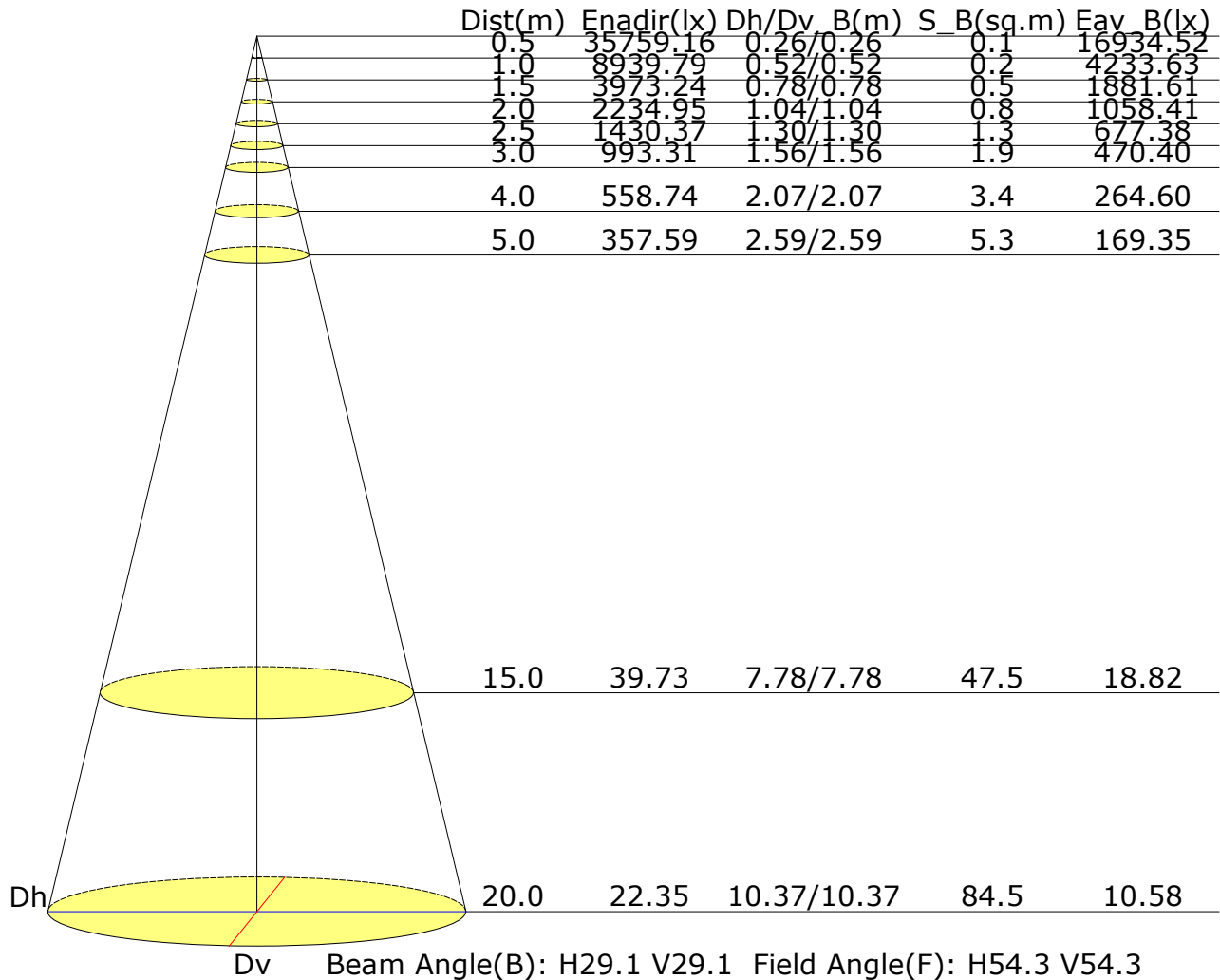
Test Device: CHL-6E

Distance: 2.905 m

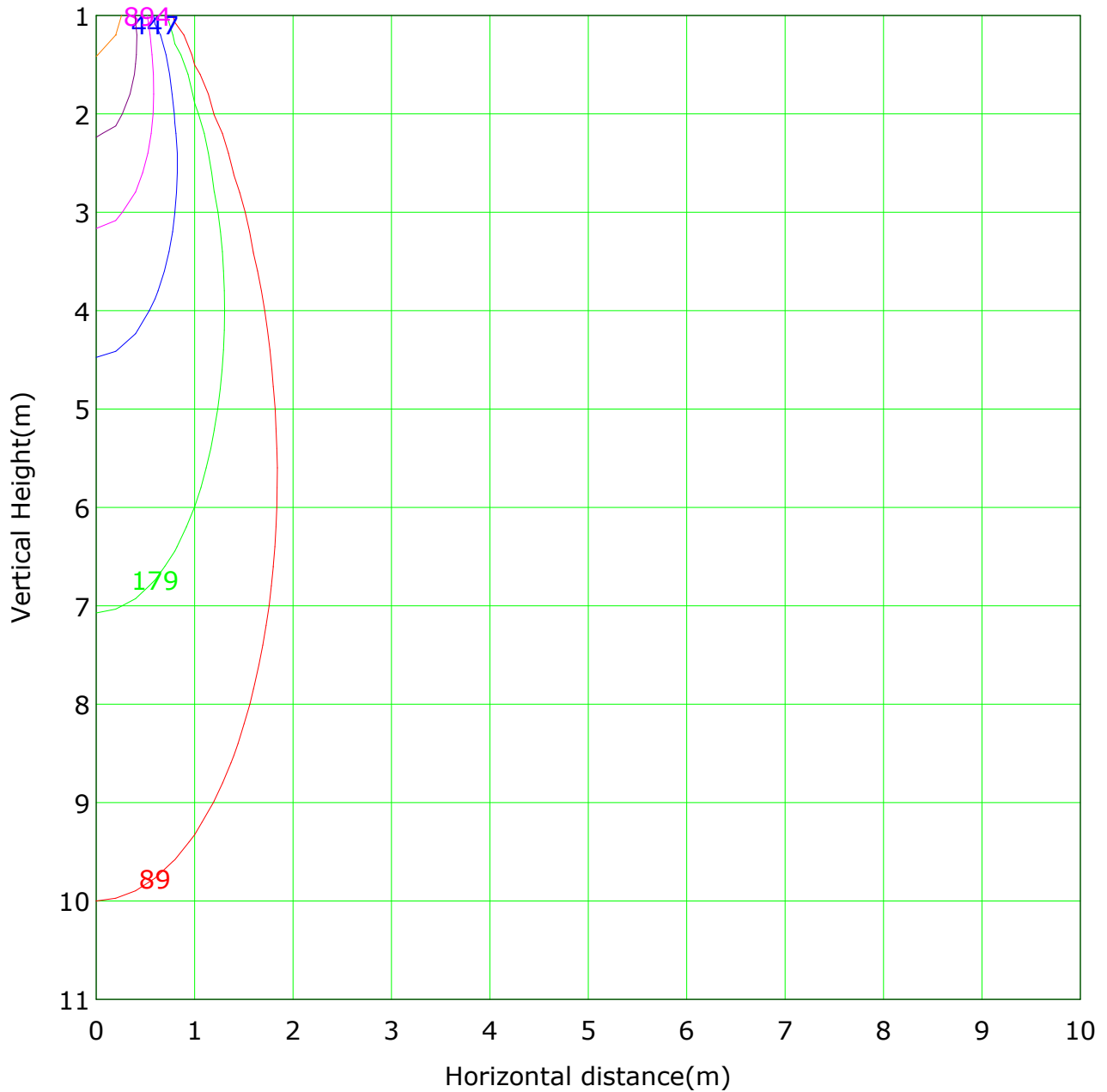
Humidity:

Inspector:

## Illuminance at a Distance



## Vertical IsoLux Plot



Lowest(m): 1.0m    Highest(m): 11.0m    Max Lux: 8939.8 lx

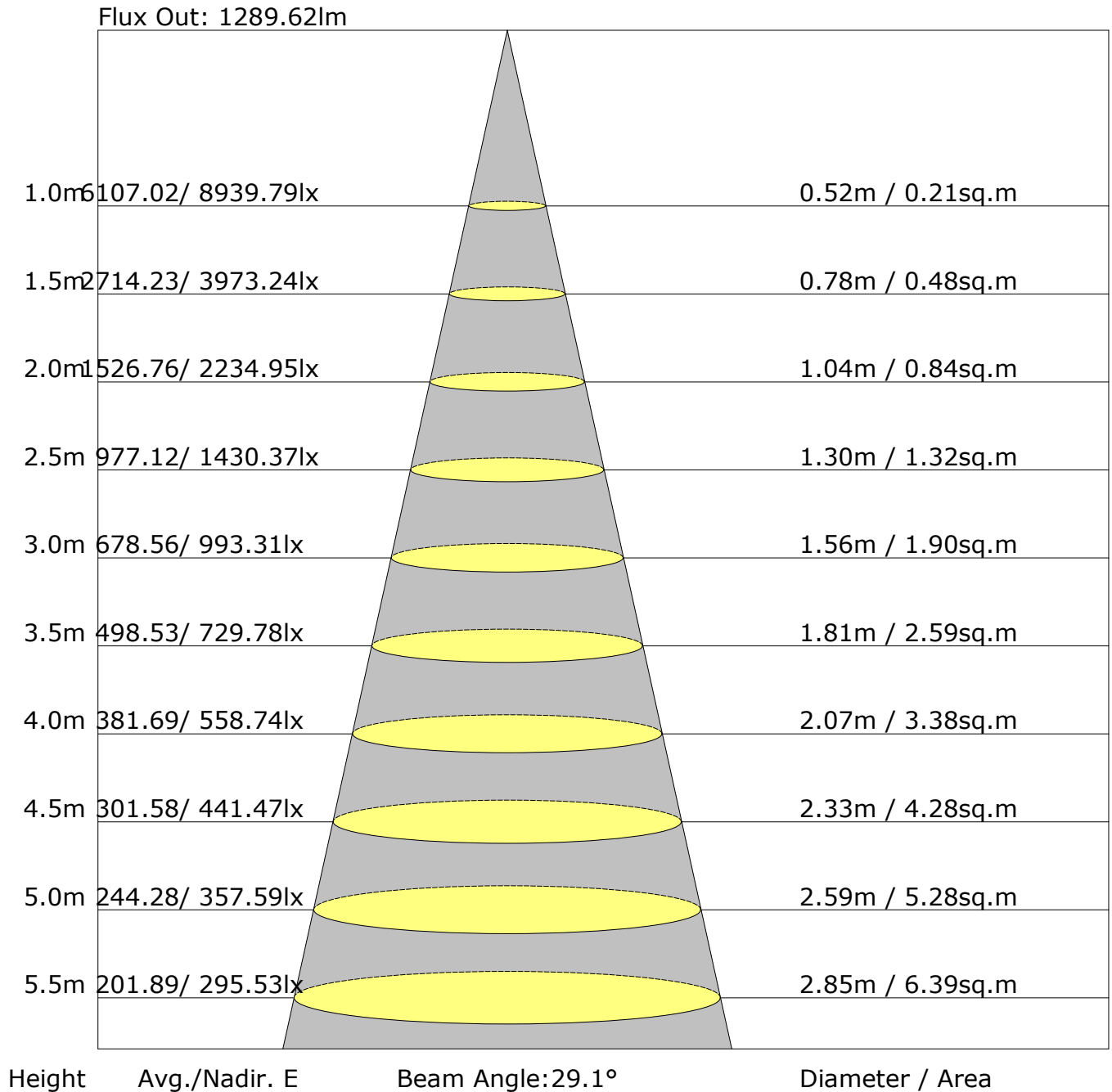
( 1%): 89.4 lx	( 2%): 178.8 lx
( 5%): 447.0 lx	( 10%): 894.0 lx
( 20%): 1788.0 lx	( 50%): 4469.9 lx
(100%): 8939.8 lx	

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:



## 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

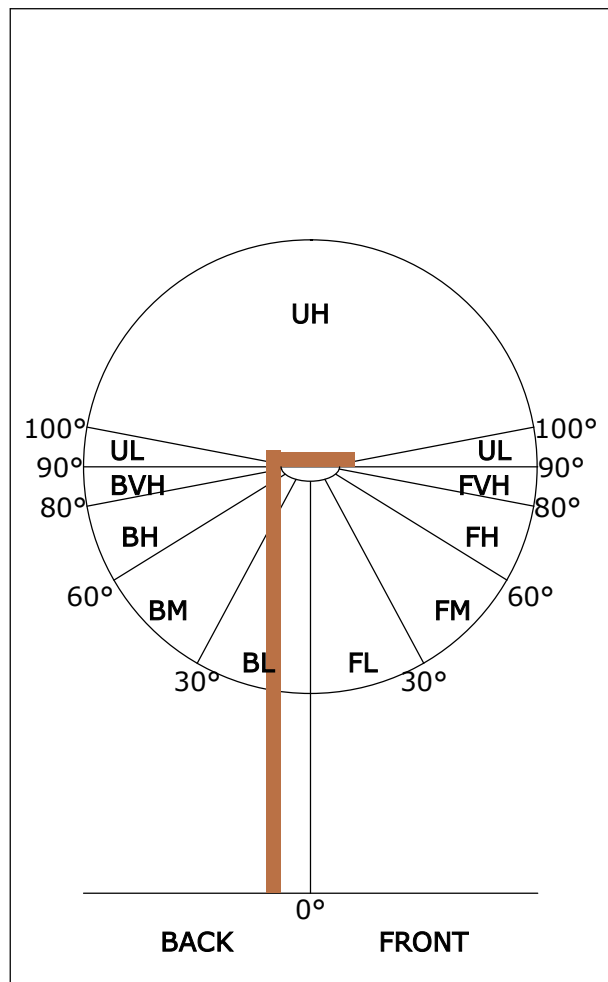
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	10.2	10.8	10.4	11.0	11.2	9.9	10.6	10.2	10.8	11.0
3H	10.2	10.8	10.5	11.0	11.2	9.9	10.5	10.1	10.7	10.9
4H	10.3	10.8	10.6	11.1	11.3	9.8	10.4	10.1	10.6	10.9
6H	10.3	10.8	10.6	11.1	11.4	9.8	10.3	10.1	10.6	10.9
8H	10.2	10.7	10.6	11.0	11.3	9.8	10.3	10.1	10.5	10.8
12H	10.2	10.7	10.6	11.0	11.3	9.7	10.2	10.1	10.5	10.8
X=4H Y=2H	10.0	10.6	10.3	10.8	11.1	9.7	10.3	10.0	10.6	10.8
3H	10.1	10.5	10.4	10.8	11.2	9.7	10.2	10.0	10.5	10.8
4H	10.2	10.6	10.6	11.0	11.3	9.7	10.1	10.1	10.5	10.8
6H	10.2	10.6	10.6	11.0	11.4	9.7	10.1	10.1	10.4	10.8
8H	10.2	10.5	10.6	10.9	11.3	9.6	10.0	10.1	10.4	10.8
12H	10.1	10.5	10.6	10.9	11.3	9.6	9.9	10.0	10.3	10.7
X=8H Y=4H	10.1	10.5	10.6	10.9	11.3	9.7	10.0	10.1	10.4	10.8
6H	10.2	10.5	10.6	10.9	11.3	9.6	9.9	10.1	10.3	10.8
8H	10.1	10.4	10.6	10.8	11.3	9.6	9.8	10.1	10.3	10.8
12H	10.1	10.3	10.6	10.8	11.3	9.5	9.7	10.0	10.2	10.7
X=12H Y=4H	10.1	10.4	10.5	10.8	11.2	9.6	9.9	10.1	10.3	10.8
6H	10.1	10.4	10.6	10.8	11.3	9.6	9.8	10.1	10.3	10.8
8H	10.1	10.3	10.6	10.8	11.3	9.5	9.8	10.0	10.2	10.7
Variations with the observer position at spacings:										
S=1.0H	+5.6/-6.3					+5.8/-8.2				
S=1.5H	+8.3/-7.4					+8.6/-9.0				
S=2.0H	+10.3/-7.6					+10.6/-9.4				

Calculate in accordance with CIE Pub.117. The table is revised with 2656lm ( $8\log(F/F_0) = 3.4$ ).

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	1336	50.3
FL ( 0°-30°)	1248	47.0
FM (30°-60°)	85	3.2
FH (60°-80°)	3	0.1
FVH (80°-90°)	0	0.0
BACK LIGHT	1320	49.7
BL ( 0°-30°)	1240	46.7
BM (30°-60°)	79	3.0
BH (60°-80°)	1	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 <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	8923.6	8.5	8.5	0.32	0.32
1.0-2.0	8859.4	25.4	34.0	0.96	1.28
2.0-3.0	8735.8	41.8	75.8	1.57	2.85
3.0-4.0	8557.8	57.3	133.0	2.16	5.01
4.0-5.0	8326.1	71.6	204.7	2.70	7.71
5.0-6.0	8047.0	84.6	289.3	3.18	10.89
6.0-7.0	7726.5	95.9	385.2	3.61	14.50
7.0-8.0	7372.2	105.5	490.7	3.97	18.48
8.0-9.0	6990.3	113.3	604.0	4.27	22.75
9.0-10.0	6586.2	119.2	723.2	4.49	27.23
10.0-11.0	6167.0	123.2	846.5	4.64	31.88
11.0-12.0	5740.8	125.5	972.0	4.73	36.60
12.0-13.0	5316.0	126.2	1098.1	4.75	41.35
13.0-14.0	4895.4	125.3	1223.5	4.72	46.07
14.0-15.0	4483.9	123.1	1346.6	4.64	50.71
15.0-16.0	4083.0	119.7	1466.2	4.51	55.21
16.0-17.0	3695.8	115.1	1581.3	4.33	59.55
17.0-18.0	3328.2	109.7	1691.1	4.13	63.68
18.0-19.0	2979.9	103.7	1794.8	3.90	67.59
19.0-20.0	2652.7	97.1	1891.9	3.66	71.24
20.0-21.0	2348.7	90.2	1982.1	3.40	74.64
21.0-22.0	2067.5	83.1	2065.2	3.13	77.77
22.0-23.0	1807.3	75.8	2141.0	2.86	80.62
23.0-24.0	1570.4	68.7	2209.7	2.59	83.21
24.0-25.0	1358.0	61.8	2271.4	2.33	85.54
25.0-26.0	1166.3	55.1	2326.5	2.07	87.61
26.0-27.0	995.3	48.7	2375.2	1.83	89.44
27.0-28.0	844.3	42.8	2418.0	1.61	91.05
28.0-29.0	712.3	37.3	2455.2	1.40	92.46
29.0-30.0	598.2	32.3	2487.5	1.22	93.67
30.0-31.0	499.9	27.8	2515.4	1.05	94.72
31.0-32.0	415.3	23.8	2539.2	0.90	95.62
32.0-33.0	343.0	20.2	2559.4	0.76	96.38
33.0-34.0	281.9	17.1	2576.4	0.64	97.02
34.0-35.0	230.3	14.3	2590.7	0.54	97.56
35.0-36.0	186.8	11.9	2602.6	0.45	98.01

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 <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	150.6	9.8	2612.5	0.37	98.38
37.0-38.0	120.4	8.0	2620.5	0.30	98.68
38.0-39.0	95.8	6.5	2627.0	0.25	98.93
39.0-40.0	76.2	5.3	2632.3	0.20	99.13
40.0-41.0	60.0	4.3	2636.6	0.16	99.29
41.0-42.0	47.4	3.4	2640.1	0.13	99.42
42.0-43.0	37.2	2.8	2642.8	0.10	99.52
43.0-44.0	29.1	2.2	2645.0	0.08	99.60
44.0-45.0	22.5	1.7	2646.8	0.07	99.67
45.0-46.0	17.9	1.4	2648.2	0.05	99.72
46.0-47.0	15.1	1.2	2649.4	0.05	99.77
47.0-48.0	11.2	0.9	2650.3	0.03	99.80
48.0-49.0	8.1	0.7	2650.9	0.02	99.83
49.0-50.0	5.3	0.4	2651.4	0.02	99.84
50.0-51.0	2.8	0.2	2651.6	0.01	99.85
51.0-52.0	1.8	0.2	2651.8	0.01	99.86
52.0-53.0	0.7	0.1	2651.8	0.00	99.86
53.0-54.0	0.0	0.0	2651.8	0.00	99.86
54.0-55.0	0.0	0.0	2651.8	0.00	99.86
55.0-56.0	0.0	0.0	2651.8	0.00	99.86
56.0-57.0	0.0	0.0	2651.8	0.00	99.86
57.0-58.0	0.0	0.0	2651.8	0.00	99.86
58.0-59.0	0.0	0.0	2651.8	0.00	99.86
59.0-60.0	0.0	0.0	2651.8	0.00	99.86
60.0-61.0	0.0	0.0	2651.8	0.00	99.86
61.0-62.0	0.0	0.0	2651.8	0.00	99.86
62.0-63.0	0.0	0.0	2651.8	0.00	99.86
63.0-64.0	0.3	0.0	2651.8	0.00	99.86
64.0-65.0	0.7	0.1	2651.9	0.00	99.86
65.0-66.0	1.4	0.1	2652.1	0.01	99.87
66.0-67.0	2.1	0.2	2652.3	0.01	99.88
67.0-68.0	2.1	0.2	2652.5	0.01	99.89
68.0-69.0	2.1	0.2	2652.7	0.01	99.89
69.0-70.0	2.8	0.3	2653.0	0.01	99.90
70.0-71.0	3.5	0.4	2653.3	0.01	99.92
71.0-72.0	3.5	0.4	2653.7	0.01	99.93

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

Unit: cd

G\C	C0.0	C180.0								
G0.0	8939.8	8939.8								
G1.0	8907.5	8907.5								
G2.0	8816.2	8806.4								
G3.0	8667.4	8653.3								
G4.0	8463.7	8446.9								
G5.0	8206.8	8187.1								
G6.0	7906.2	7888.0								
G7.0	7569.2	7542.5								
G8.0	7198.5	7178.8								
G9.0	6801.0	6782.8								
G10.0	6389.6	6371.3								
G11.0	5957.0	5950.0								
G12.0	5530.1	5525.9								
G13.0	5107.5	5100.4								
G14.0	4691.8	4682.0								
G15.0	4287.3	4274.7								
G16.0	3892.7	3877.3								
G17.0	3516.4	3496.7								
G18.0	3163.9	3135.8								
G19.0	2829.7	2790.4								
G20.0	2519.3	2471.6								
G21.0	2230.0	2173.9								
G22.0	1963.2	1902.8								
G23.0	1711.8	1651.5								
G24.0	1490.0	1428.2								
G25.0	1289.2	1224.6								
G26.0	1106.6	1044.8								
G27.0	943.7	886.1								
G28.0	800.5	747.1								
G29.0	674.1	627.7								
G30.0	565.9	525.2								
G31.0	473.3	435.3								
G32.0	393.2	359.5								
G33.0	325.8	293.5								
G34.0	269.6	238.7								
G35.0	220.5	192.4								
G36.0	179.8	154.5								

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	146.1	122.2								
G38.0	116.6	96.9								
G39.0	94.1	75.8								
G40.0	75.8	59.0								
G41.0	60.4	44.9								
G42.0	47.8	36.5								
G43.0	36.5	28.1								
G44.0	29.5	22.5								
G45.0	22.5	15.4								
G46.0	19.7	14.0								
G47.0	16.9	9.8								
G48.0	11.2	7.0								
G49.0	9.8	4.2								
G50.0	5.6	1.4								
G51.0	4.2	0.0								
G52.0	2.8	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	1.4	0.0								
G65.0	1.4	0.0								
G66.0	4.2	0.0								
G67.0	4.2	0.0								
G68.0	4.2	0.0								
G69.0	4.2	0.0								
G70.0	7.0	0.0								
G71.0	7.0	0.0								
G72.0	7.0	0.0								
G73.0	7.0	0.0								

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

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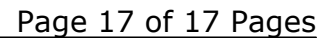
Gamma Plane (°):0.0-90.0:1.0

Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:



## Unit: cd

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