

Report No.: AX-DL-AD-10W-055

Test Time: 2025-09-30 12:01

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 15D

Luminous Width (mm): -50

Current: 0.069 A

Power Factor: 0.552

Luminous Length (mm): -50

Voltage: 231.6 V

Power: 8.80 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 538.9 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H14.6

Vertical Diffuse Angle(50%): V14.6

Luminaire Efficacy Rating (LER): 61.29

Max. Intensity: 5877.01 cd

S/MH(C0/C180): 0.26

Total Rated Lamp Lumens: 538.9 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 5745 cd

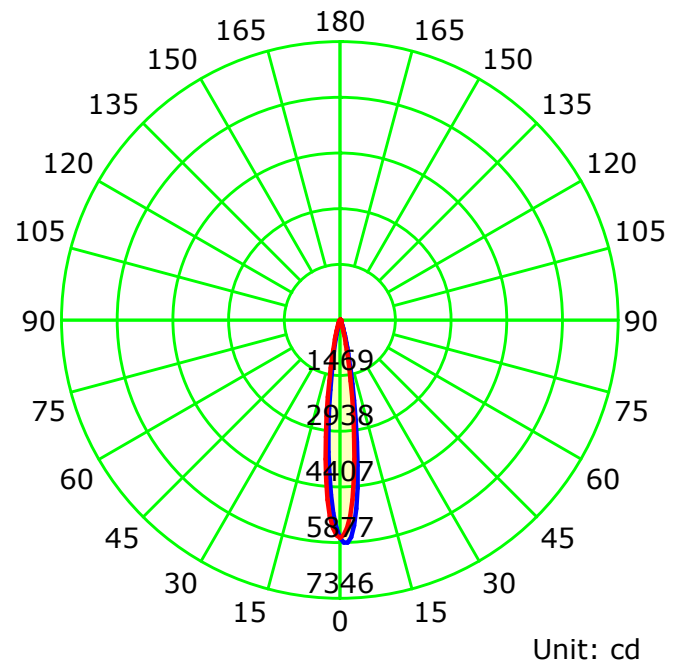
Pos of Max. Intensity: H0 V1

S/MH(C90/C270): 0.26

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

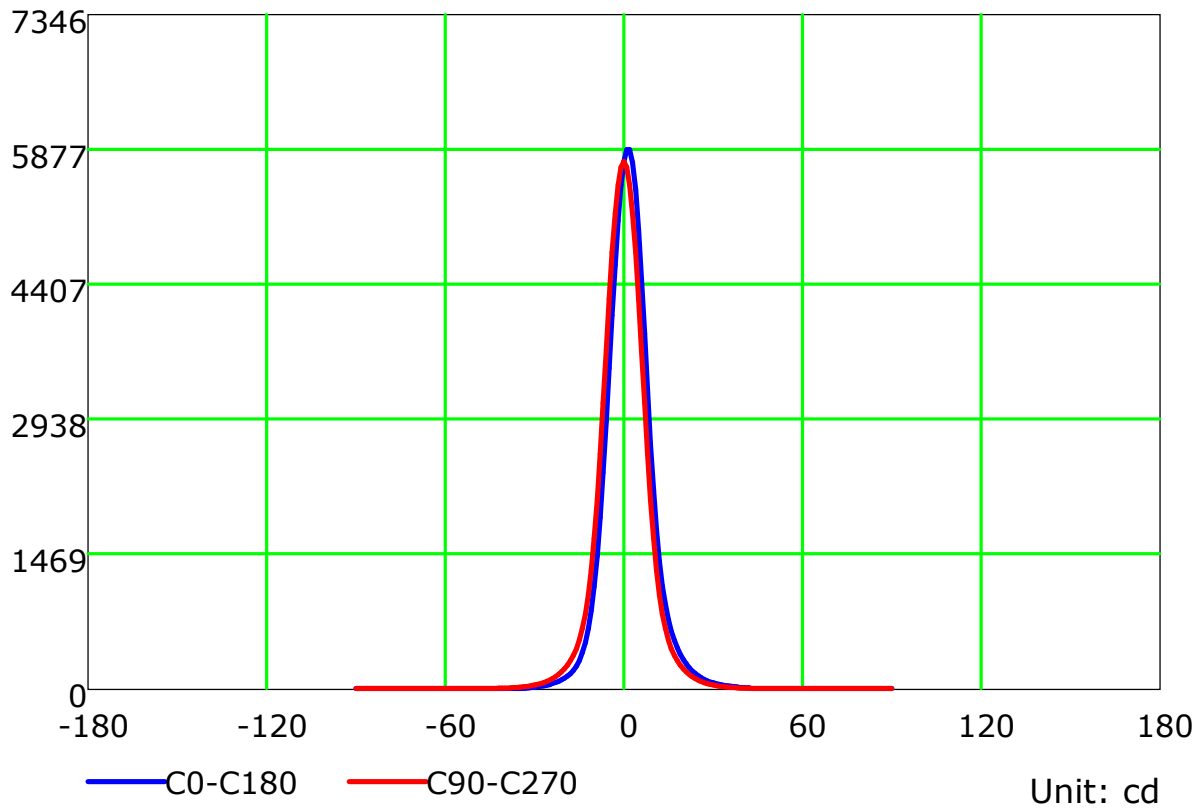
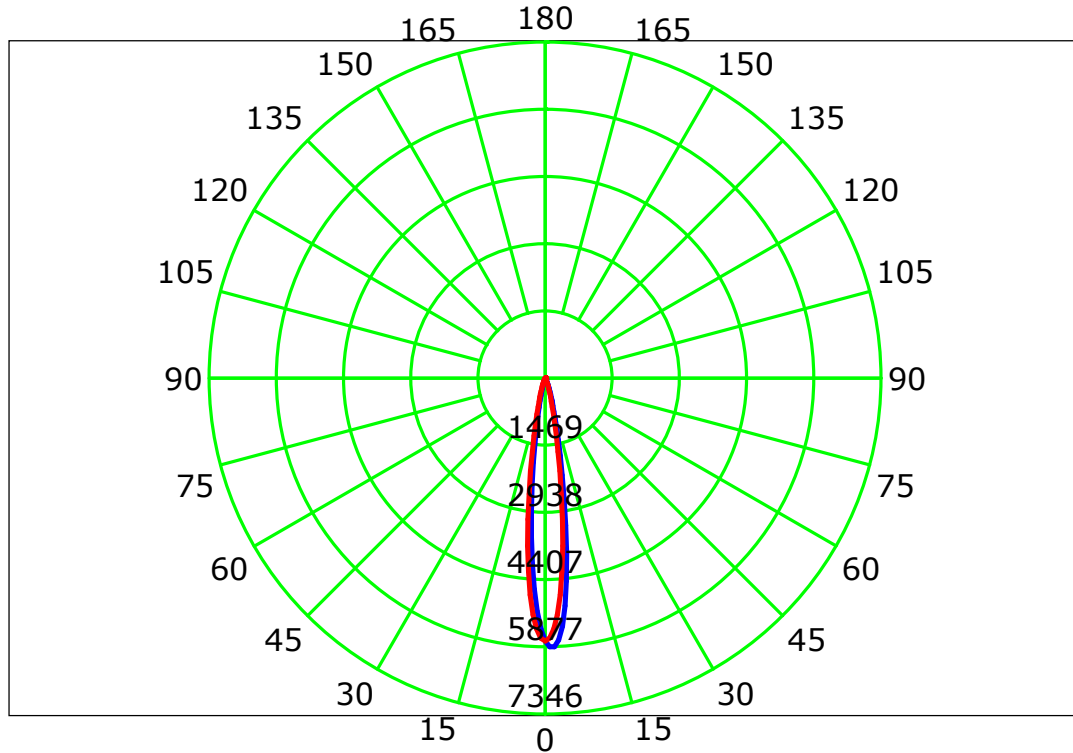
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

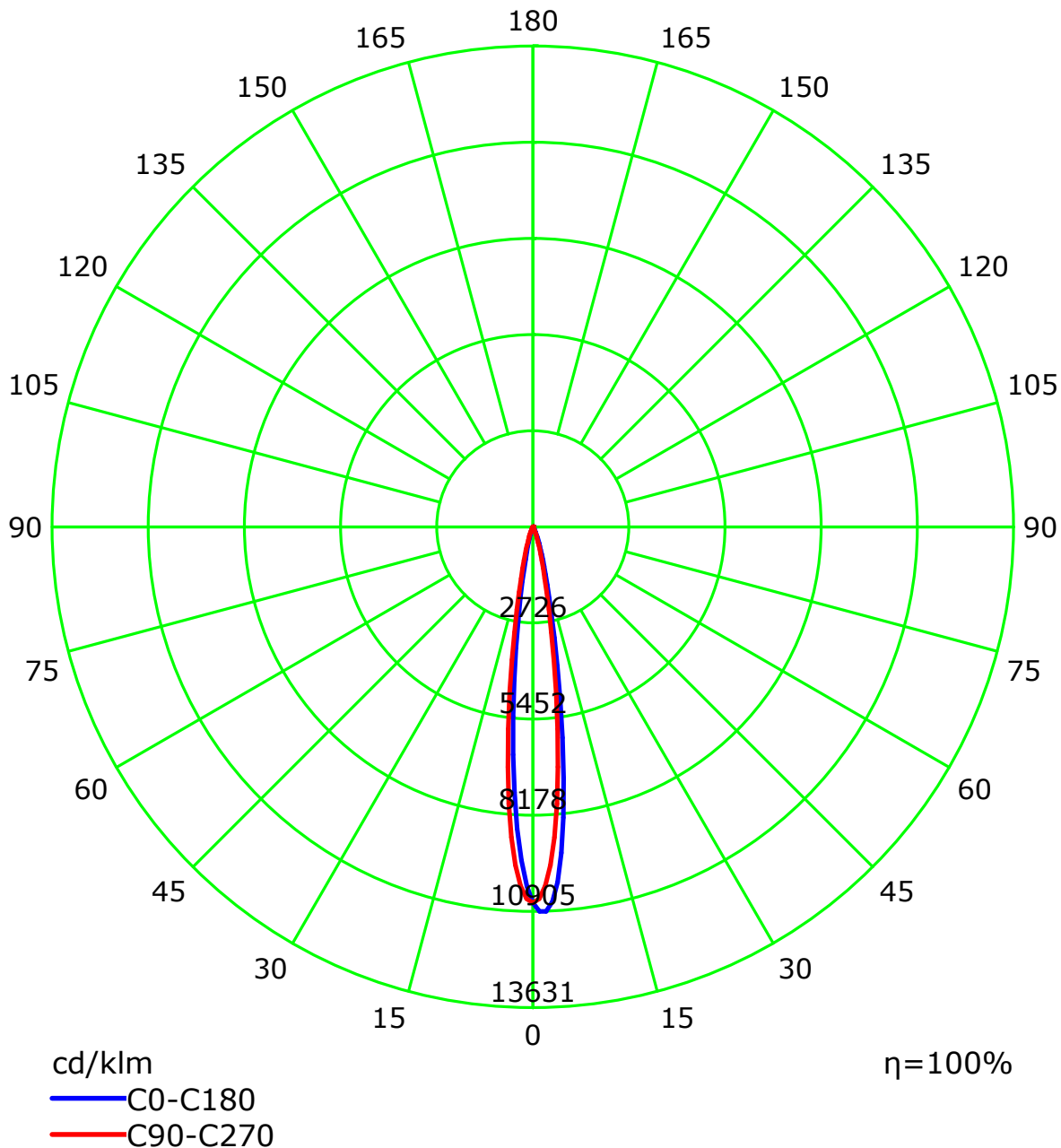
## Luminous Intensity Distribution Curve



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:

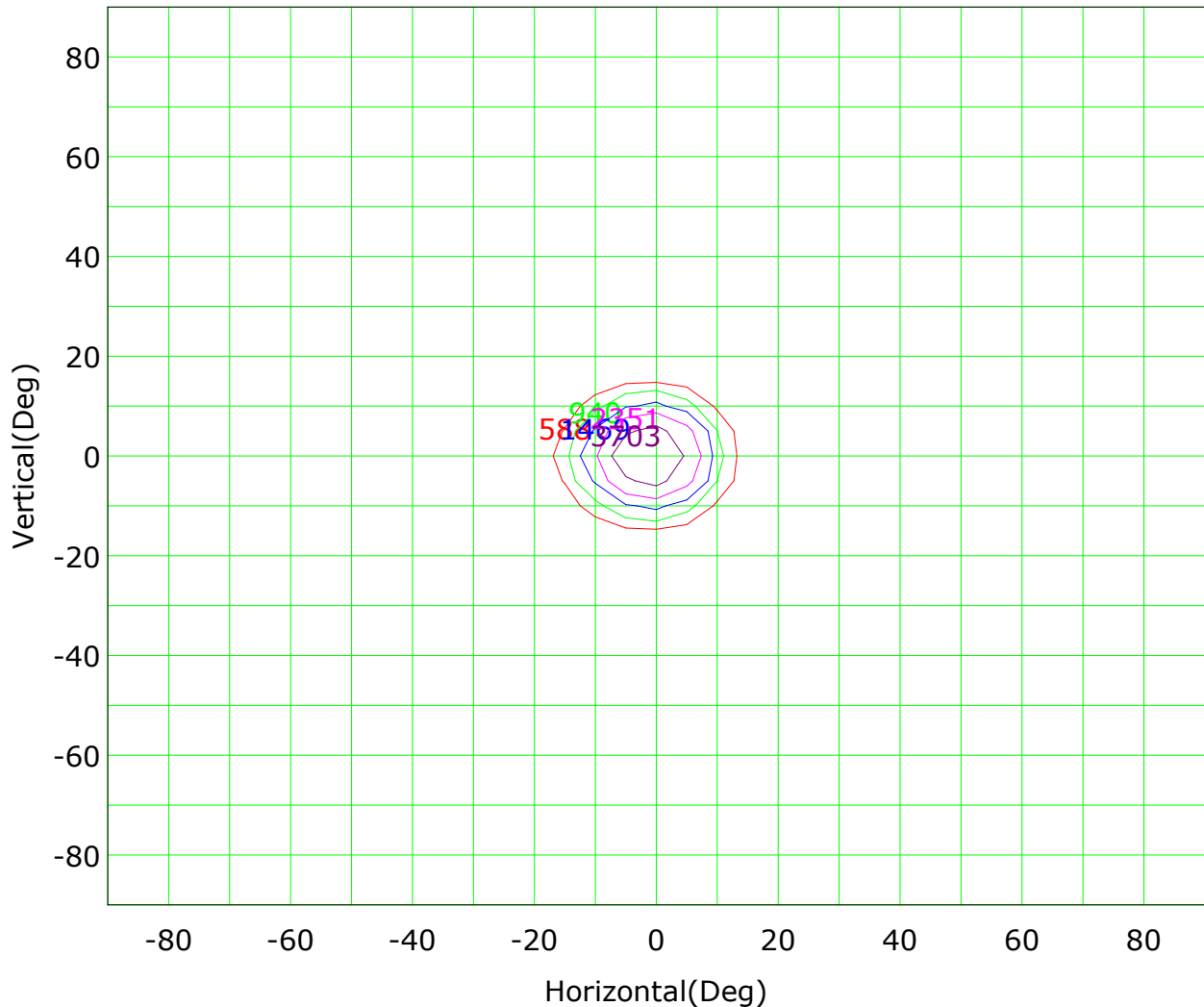
## Luminous Intensity Distribution Curve(cd/klm)



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%): 5877 cd

( 10%): 588 cd	( 16%): 940 cd
( 25%): 1469 cd	( 40%): 2351 cd
( 63%): 3703 cd	(100%): 5877 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

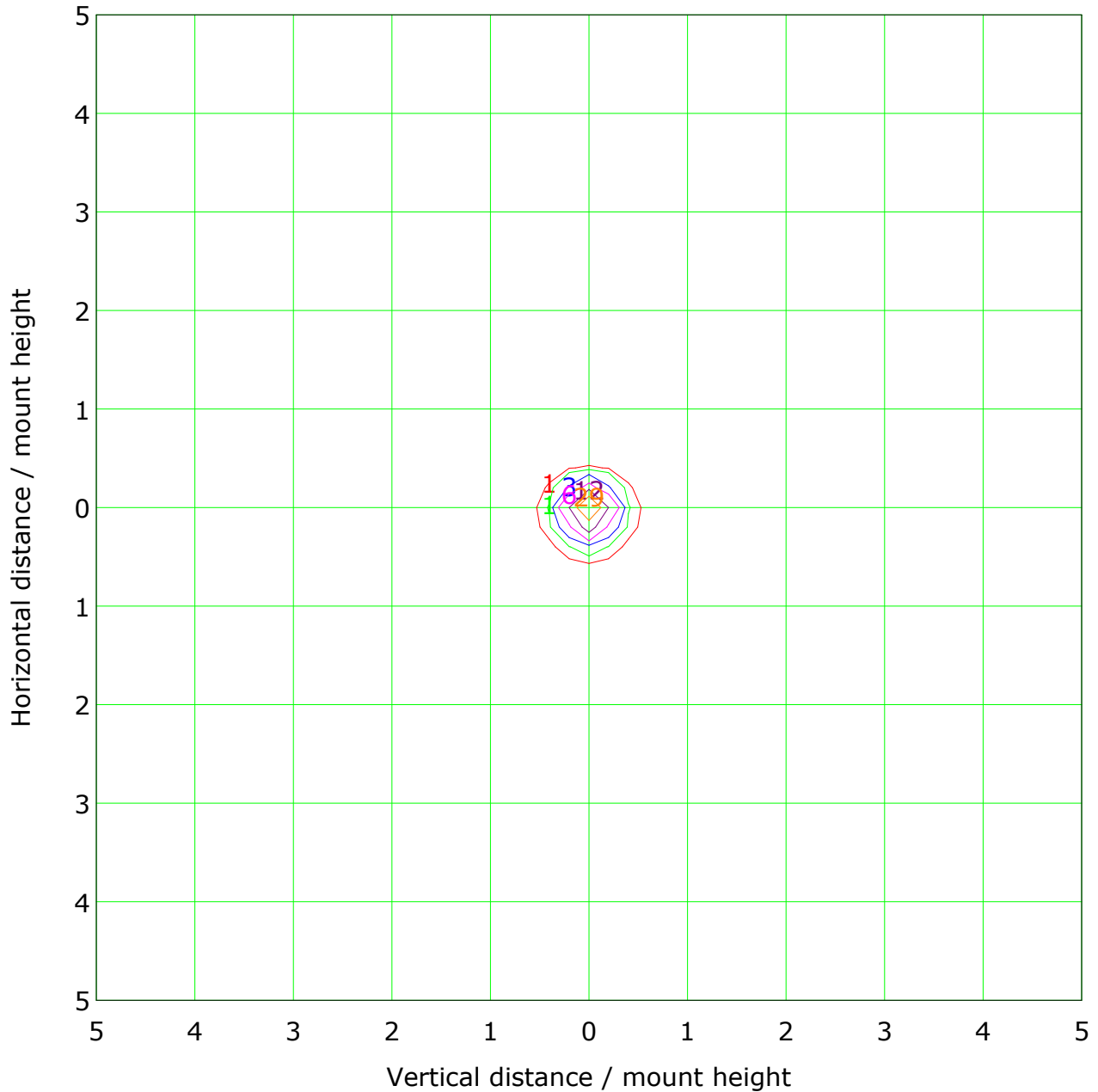
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

## IsoLux Plot



Mounting Height: 10.0m    Max Lux(100%): 58.7 lx

( 1%): 0.6 lx	( 2%): 1.2 lx
( 5%): 2.9 lx	( 10%): 5.9 lx
( 20%): 11.7 lx	( 50%): 29.4 lx
(100%): 58.7 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

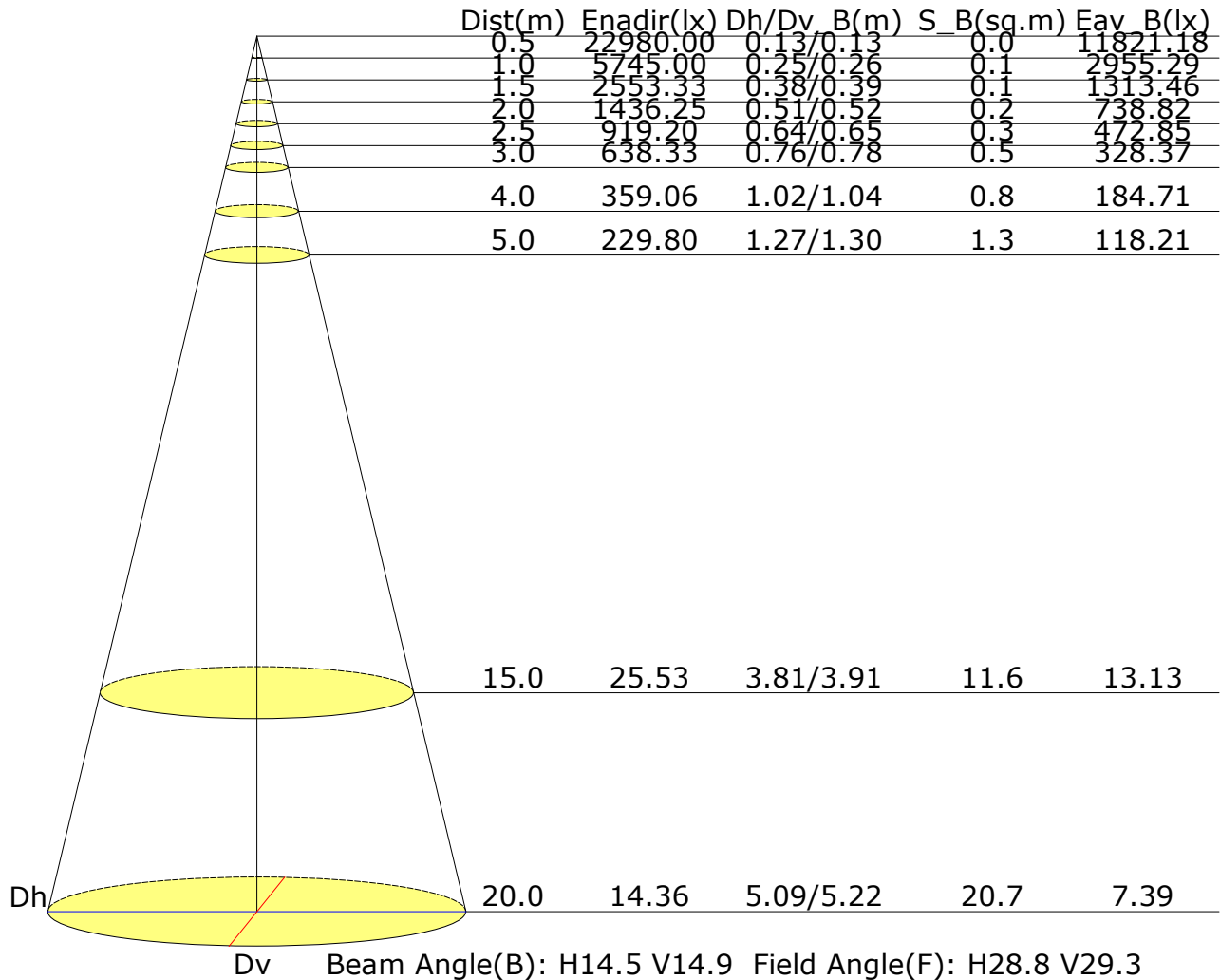
Test Device: CHL-6E

Distance: 2.905 m

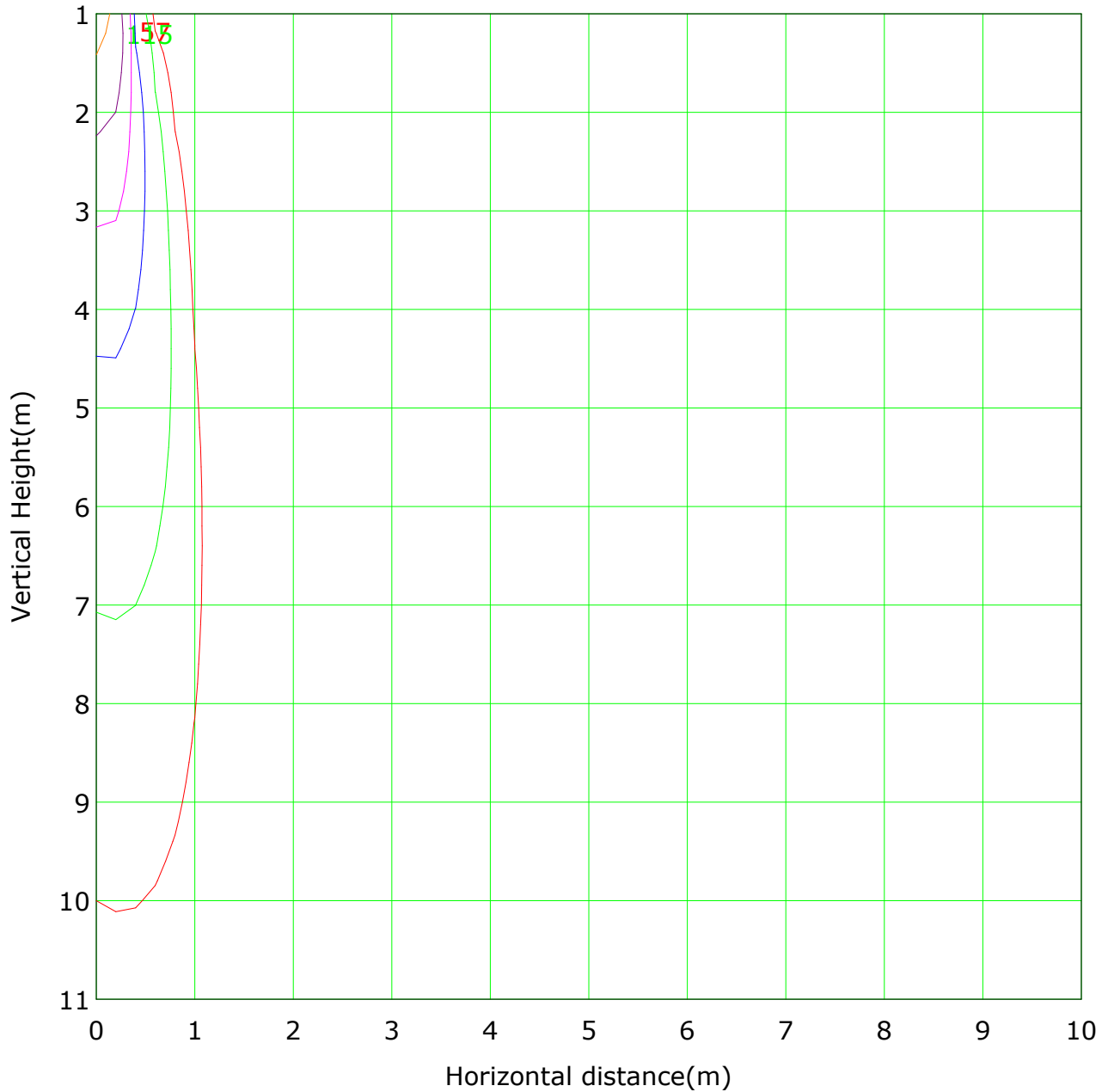
Humidity:

Inspector:

## Illuminance at a Distance



## Vertical IsoLux Plot



Lowest(m): 1.0m    Highest(m): 11.0m    Max Lux: 5745.0 lx

— ( 1%): 57.5 lx	— ( 2%): 114.9 lx
— ( 5%): 287.3 lx	— ( 10%): 574.5 lx
— ( 20%): 1149.0 lx	— ( 50%): 2872.5 lx
— (100%): 5745.0 lx	

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

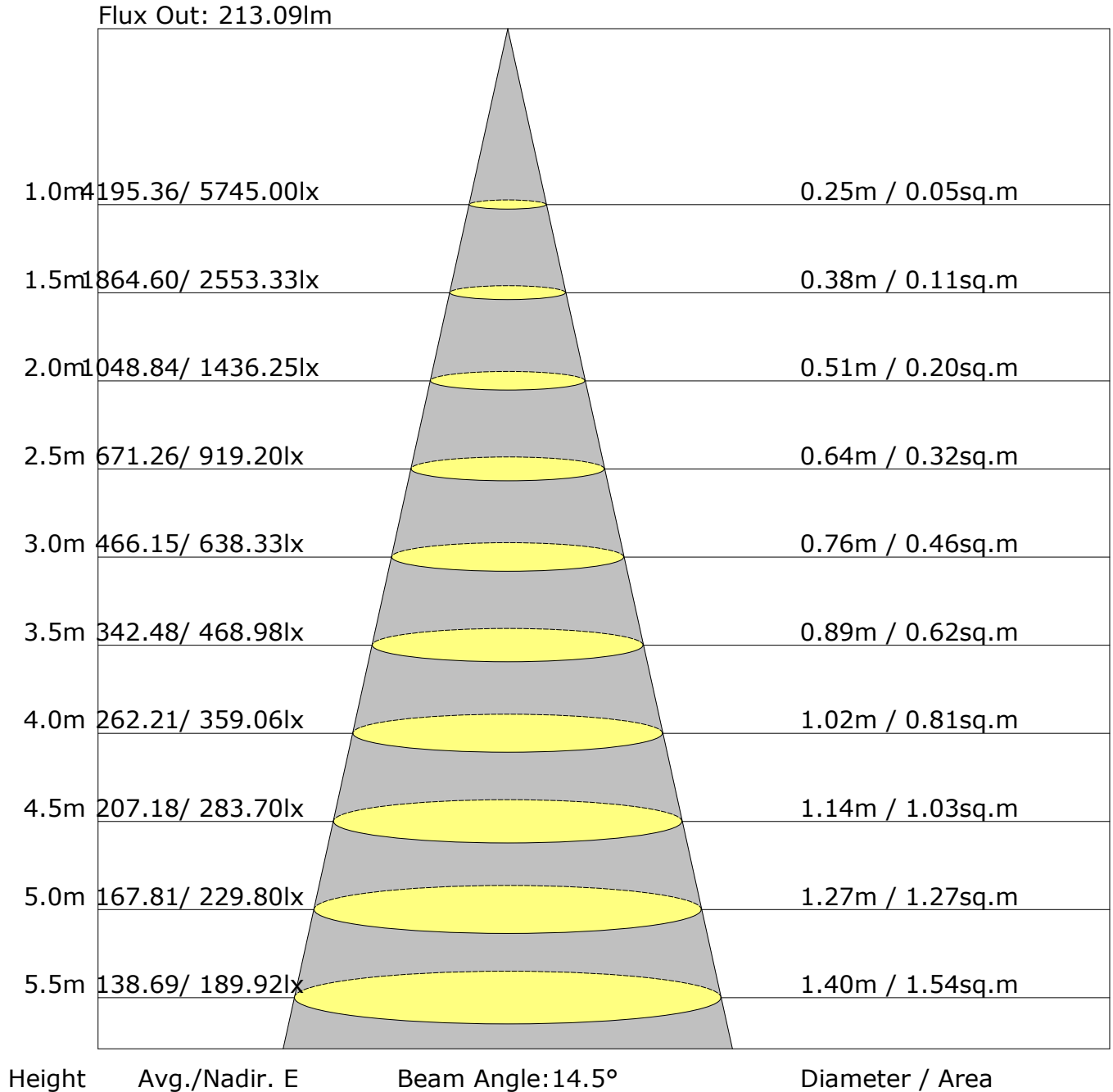
Gamma Plane (°): 0.0-90.0: 1.0  
Test Device: CHL-6E  
Distance: 2.905 m  
Humidity:  
Inspector:

## Unit: lm

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

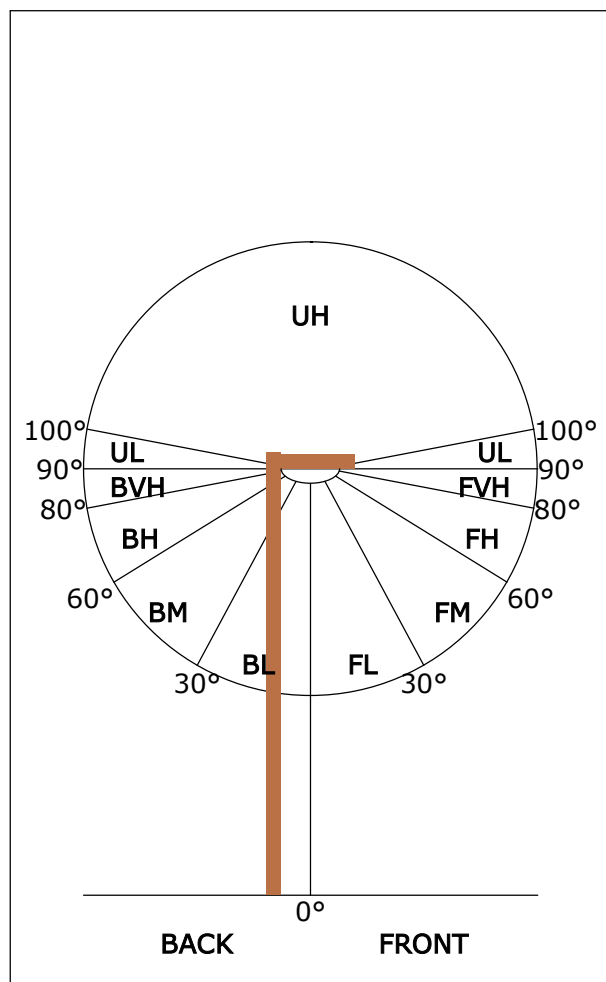
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	6.5	7.0	6.7	7.1	7.3	4.0	4.4	4.2	4.6	4.8
3H	6.3	6.8	6.6	7.0	7.2	3.8	4.3	4.1	4.5	4.7
4H	6.3	6.7	6.6	6.9	7.2	3.8	4.2	4.0	4.4	4.7
6H	6.2	6.6	6.5	6.9	7.1	3.7	4.1	4.0	4.4	4.6
8H	6.1	6.5	6.5	6.8	7.1	3.6	4.0	4.0	4.3	4.6
12H	6.1	6.5	6.4	6.8	7.1	3.6	4.0	3.9	4.3	4.6
X=4H Y=2H	6.3	6.7	6.6	6.9	7.2	3.8	4.2	4.0	4.4	4.7
3H	6.1	6.5	6.4	6.8	7.1	3.6	4.0	3.9	4.3	4.6
4H	6.0	6.3	6.4	6.7	7.0	3.5	3.8	3.9	4.2	4.5
6H	5.9	6.2	6.3	6.6	7.0	3.4	3.7	3.8	4.1	4.5
8H	5.9	6.2	6.3	6.5	6.9	3.4	3.6	3.8	4.0	4.4
12H	5.8	6.1	6.2	6.5	6.9	3.3	3.6	3.7	4.0	4.4
X=8H Y=4H	5.9	6.2	6.3	6.5	6.9	3.4	3.6	3.8	4.0	4.4
6H	5.8	6.0	6.2	6.4	6.9	3.3	3.5	3.7	3.9	4.4
8H	5.7	5.9	6.2	6.4	6.8	3.2	3.4	3.7	3.9	4.3
12H	5.7	5.8	6.1	6.3	6.8	3.2	3.3	3.6	3.8	4.3
X=12H Y=4H	5.8	6.1	6.2	6.5	6.9	3.3	3.6	3.7	4.0	4.4
6H	5.7	5.9	6.2	6.4	6.8	3.2	3.4	3.7	3.9	4.3
8H	5.7	5.8	6.1	6.3	6.8	3.2	3.3	3.6	3.8	4.3
Variations with the observer position at spacings:										
S=1.0H	+6.1/-1.\$					+5.7/-1.\$				
S=1.5H	+8.9/-1.\$					+8.5/-1.\$				
S=2.0H	+10.9/-1.\$					+10.5/-1.\$				

Calculate in accordance with CIE Pub.117. The table is revised with 539lm ( $8\log(F/F_0) = -2.1$ ).

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	310	57.4
FL ( 0°-30°)	301	55.9
FM (30°-60°)	8	1.5
FH (60°-80°)	0	0.0
FVH (80°-90°)	0	0.0
BACK LIGHT	229	42.6
BL ( 0°-30°)	226	41.9
BM (30°-60°)	3	0.6
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)	B1 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 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	5713.8	5.5	5.5	1.01	1.01
1.0-2.0	5585.3	16.0	21.5	2.98	3.99
2.0-3.0	5332.8	25.5	47.0	4.73	8.72
3.0-4.0	4966.3	33.2	80.3	6.17	14.89
4.0-5.0	4500.8	38.7	119.0	7.19	22.08
5.0-6.0	3967.5	41.7	160.7	7.74	29.82
6.0-7.0	3400.2	42.2	202.9	7.83	37.65
7.0-8.0	2835.6	40.6	243.5	7.53	45.18
8.0-9.0	2309.7	37.4	280.9	6.95	52.13
9.0-10.0	1847.7	33.4	314.4	6.21	58.33
10.0-11.0	1462.6	29.2	343.6	5.42	63.76
11.0-12.0	1155.0	25.3	368.8	4.69	68.44
12.0-13.0	917.0	21.8	390.6	4.04	72.48
13.0-14.0	734.1	18.8	409.4	3.49	75.97
14.0-15.0	592.6	16.3	425.7	3.02	78.99
15.0-16.0	483.4	14.2	439.8	2.63	81.62
16.0-17.0	399.2	12.4	452.3	2.31	83.92
17.0-18.0	333.2	11.0	463.3	2.04	85.96
18.0-19.0	279.8	9.7	473.0	1.81	87.77
19.0-20.0	235.2	8.6	481.6	1.60	89.37
20.0-21.0	199.1	7.6	489.2	1.42	90.78
21.0-22.0	168.5	6.8	496.0	1.26	92.04
22.0-23.0	142.2	6.0	502.0	1.11	93.15
23.0-24.0	121.1	5.3	507.3	0.98	94.13
24.0-25.0	102.2	4.6	511.9	0.86	94.99
25.0-26.0	85.3	4.0	516.0	0.75	95.74
26.0-27.0	71.3	3.5	519.4	0.65	96.39
27.0-28.0	60.0	3.0	522.5	0.56	96.95
28.0-29.0	50.6	2.6	525.1	0.49	97.44
29.0-30.0	42.5	2.3	527.4	0.43	97.87
30.0-31.0	35.8	2.0	529.4	0.37	98.24
31.0-32.0	29.8	1.7	531.1	0.32	98.55
32.0-33.0	24.6	1.4	532.6	0.27	98.82
33.0-34.0	19.7	1.2	533.8	0.22	99.04
34.0-35.0	16.1	1.0	534.8	0.19	99.23
35.0-36.0	13.7	0.9	535.6	0.16	99.39

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

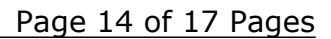
Gamma Plane (°):0.0-90.0:1.0  
Test Device: CHL-6E  
Distance: 2.905 m  
Humidity:  
Inspector:

## 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	11.6	0.8	536.4	0.14	99.53
37.0-38.0	9.8	0.7	537.1	0.12	99.65
38.0-39.0	7.7	0.5	537.6	0.10	99.75
39.0-40.0	6.0	0.4	538.0	0.08	99.83
40.0-41.0	4.9	0.4	538.3	0.06	99.89
41.0-42.0	3.9	0.3	538.6	0.05	99.95
42.0-43.0	2.5	0.2	538.8	0.03	99.98
43.0-44.0	1.1	0.1	538.9	0.01	100.00
44.0-45.0	0.3	0.0	538.9	0.00	100.00
45.0-46.0	0.0	0.0	538.9	0.00	100.00
46.0-47.0	0.0	0.0	538.9	0.00	100.00
47.0-48.0	0.0	0.0	538.9	0.00	100.00
48.0-49.0	0.0	0.0	538.9	0.00	100.00
49.0-50.0	0.0	0.0	538.9	0.00	100.00
50.0-51.0	0.0	0.0	538.9	0.00	100.00
51.0-52.0	0.0	0.0	538.9	0.00	100.00
52.0-53.0	0.0	0.0	538.9	0.00	100.00
53.0-54.0	0.0	0.0	538.9	0.00	100.00
54.0-55.0	0.0	0.0	538.9	0.00	100.00
55.0-56.0	0.0	0.0	538.9	0.00	100.00
56.0-57.0	0.0	0.0	538.9	0.00	100.00
57.0-58.0	0.0	0.0	538.9	0.00	100.00
58.0-59.0	0.0	0.0	538.9	0.00	100.00
59.0-60.0	0.0	0.0	538.9	0.00	100.00
60.0-61.0	0.0	0.0	538.9	0.00	100.00
61.0-62.0	0.0	0.0	538.9	0.00	100.00
62.0-63.0	0.0	0.0	538.9	0.00	100.00
63.0-64.0	0.0	0.0	538.9	0.00	100.00
64.0-65.0	0.0	0.0	538.9	0.00	100.00
65.0-66.0	0.0	0.0	538.9	0.00	100.00
66.0-67.0	0.0	0.0	538.9	0.00	100.00
67.0-68.0	0.0	0.0	538.9	0.00	100.00
68.0-69.0	0.0	0.0	538.9	0.00	100.00
69.0-70.0	0.0	0.0	538.9	0.00	100.00
70.0-71.0	0.0	0.0	538.9	0.00	100.00
71.0-72.0	0.0	0.0	538.9	0.00	100.00

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:



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	5745.0	5745.0								
G1.0	5877.0	5488.0								
G2.0	5877.0	5099.0								
G3.0	5735.2	4620.2								
G4.0	5440.3	4069.7								
G5.0	4999.3	3493.9								
G6.0	4465.7	2911.1								
G7.0	3867.4	2356.4								
G8.0	3253.8	1864.9								
G9.0	2669.6	1450.7								
G10.0	2158.4	1112.2								
G11.0	1728.7	851.0								
G12.0	1387.4	653.0								
G13.0	1123.4	504.1								
G14.0	915.6	393.2								
G15.0	755.5	306.1								
G16.0	627.7	244.4								
G17.0	526.6	198.0								
G18.0	445.2	162.9								
G19.0	375.0	136.2								
G20.0	317.4	112.3								
G21.0	269.6	96.9								
G22.0	227.5	80.1								
G23.0	192.4	68.8								
G24.0	165.7	57.6								
G25.0	140.4	44.9								
G26.0	119.4	36.5								
G27.0	98.3	30.9								
G28.0	85.7	25.3								
G29.0	70.2	21.1								
G30.0	63.2	15.4								
G31.0	53.4	11.2								
G32.0	46.3	8.4								
G33.0	39.3	4.2								
G34.0	33.7	1.4								
G35.0	29.5	0.0								
G36.0	25.3	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:

## Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	21.1	0.0								
G38.0	18.3	0.0								
G39.0	12.6	0.0								
G40.0	11.2	0.0								
G41.0	8.4	0.0								
G42.0	7.0	0.0								
G43.0	2.8	0.0								
G44.0	1.4	0.0								
G45.0	0.0	0.0								
G46.0	0.0	0.0								
G47.0	0.0	0.0								
G48.0	0.0	0.0								
G49.0	0.0	0.0								
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:

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Gamma Plane (°):0.0-90.0:1.0

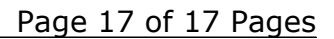
Test Device: CHL-6E

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:  
Inspector: