

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

Test Time: 2025-09-30 11:58

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 24D

Luminous Width (mm): -50

Current: 0.072 A

Power Factor: 0.553

Luminous Length (mm): -50

Voltage: 222.6 V

Power: 8.80 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 591.1 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H22.9

Vertical Diffuse Angle(50%): V22.9

Luminaire Efficacy Rating (LER): 67.22

Max. Intensity: 3251.88 cd

S/MH(C0/C180): 0.39

Total Rated Lamp Lumens: 591.1 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 3221.67 cd

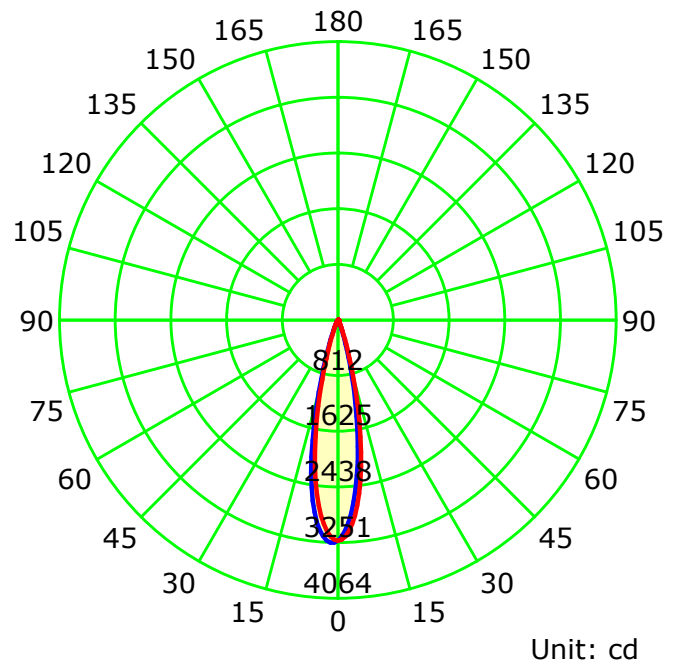
Pos of Max. Intensity: H180 V1

S/MH(C90/C270): 0.39

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

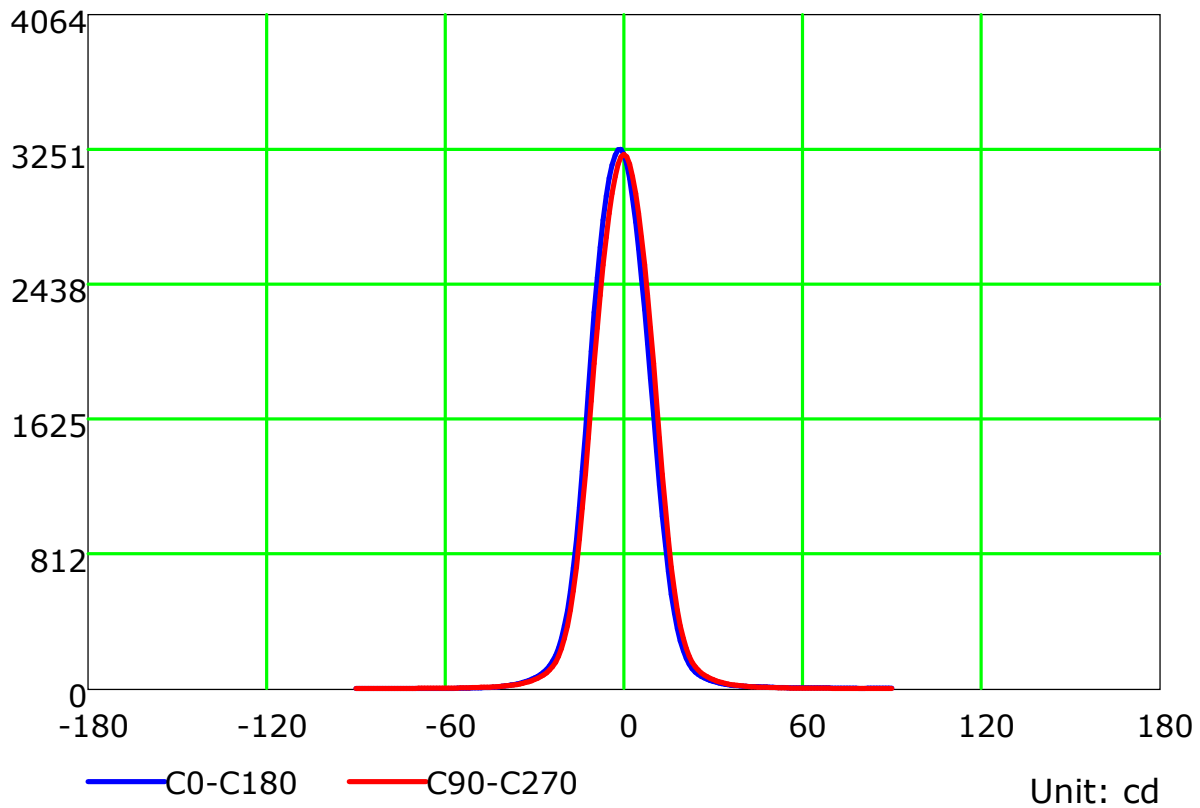
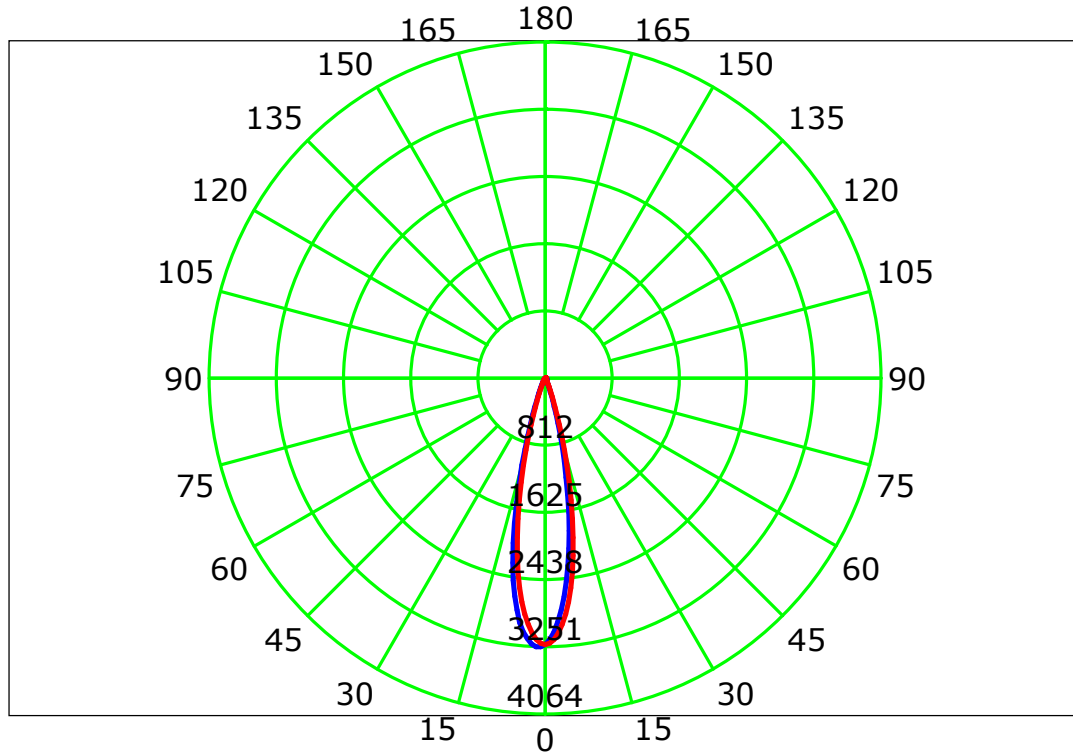
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

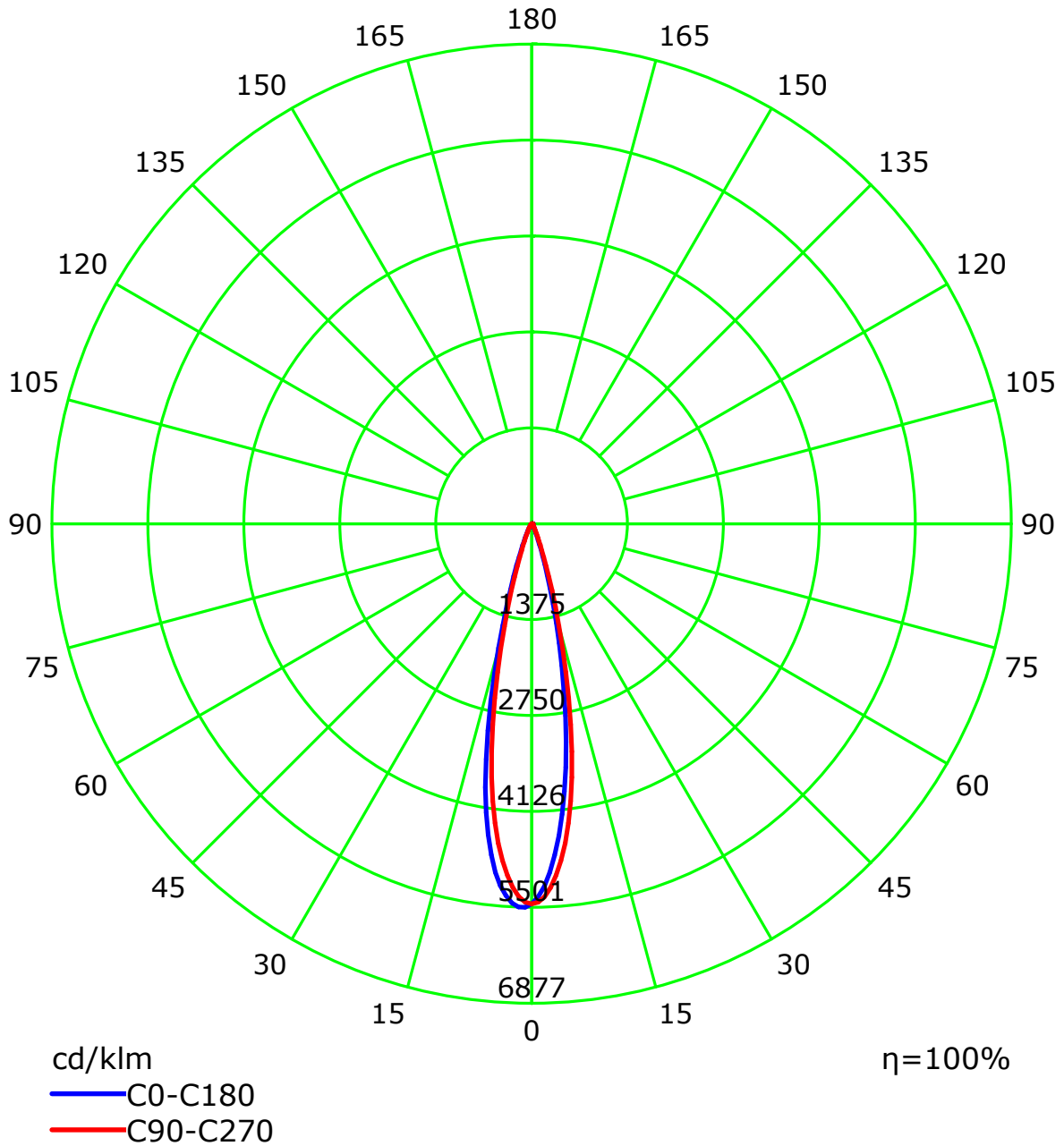
## Luminous Intensity Distribution Curve



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:

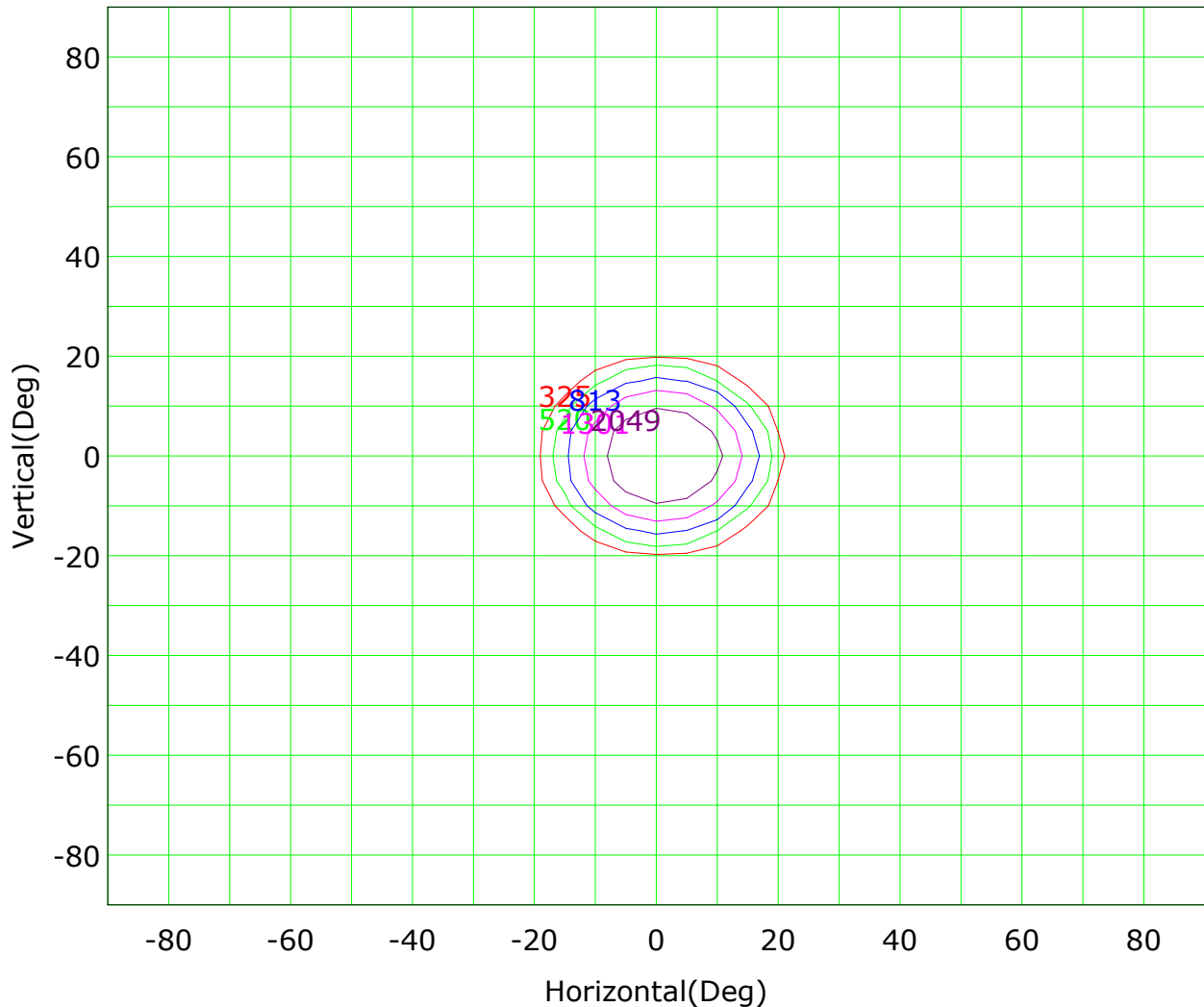
## Luminous Intensity Distribution Curve(cd/klm)



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%): 3252 cd

( 10%): 325 cd	( 16%): 520 cd
( 25%): 813 cd	( 40%): 1301 cd
( 63%): 2049 cd	(100%): 3252 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

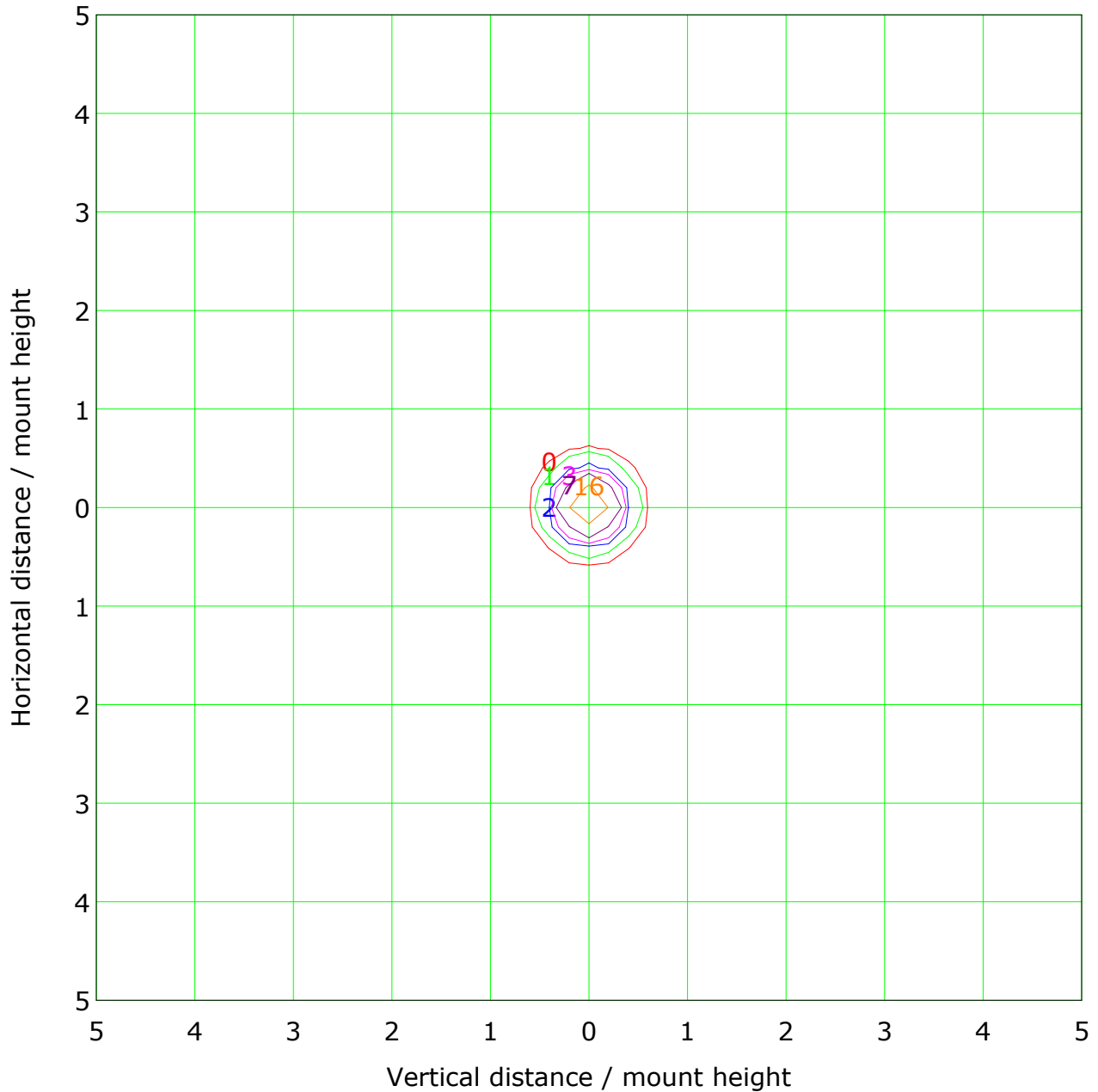
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

## IsoLux Plot



Mounting Height: 10.0m    Max Lux(100%): 32.5 lx

( 1%): 0.3 lx	( 2%): 0.7 lx
( 5%): 1.6 lx	( 10%): 3.3 lx
( 20%): 6.5 lx	( 50%): 16.3 lx
(100%): 32.5 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

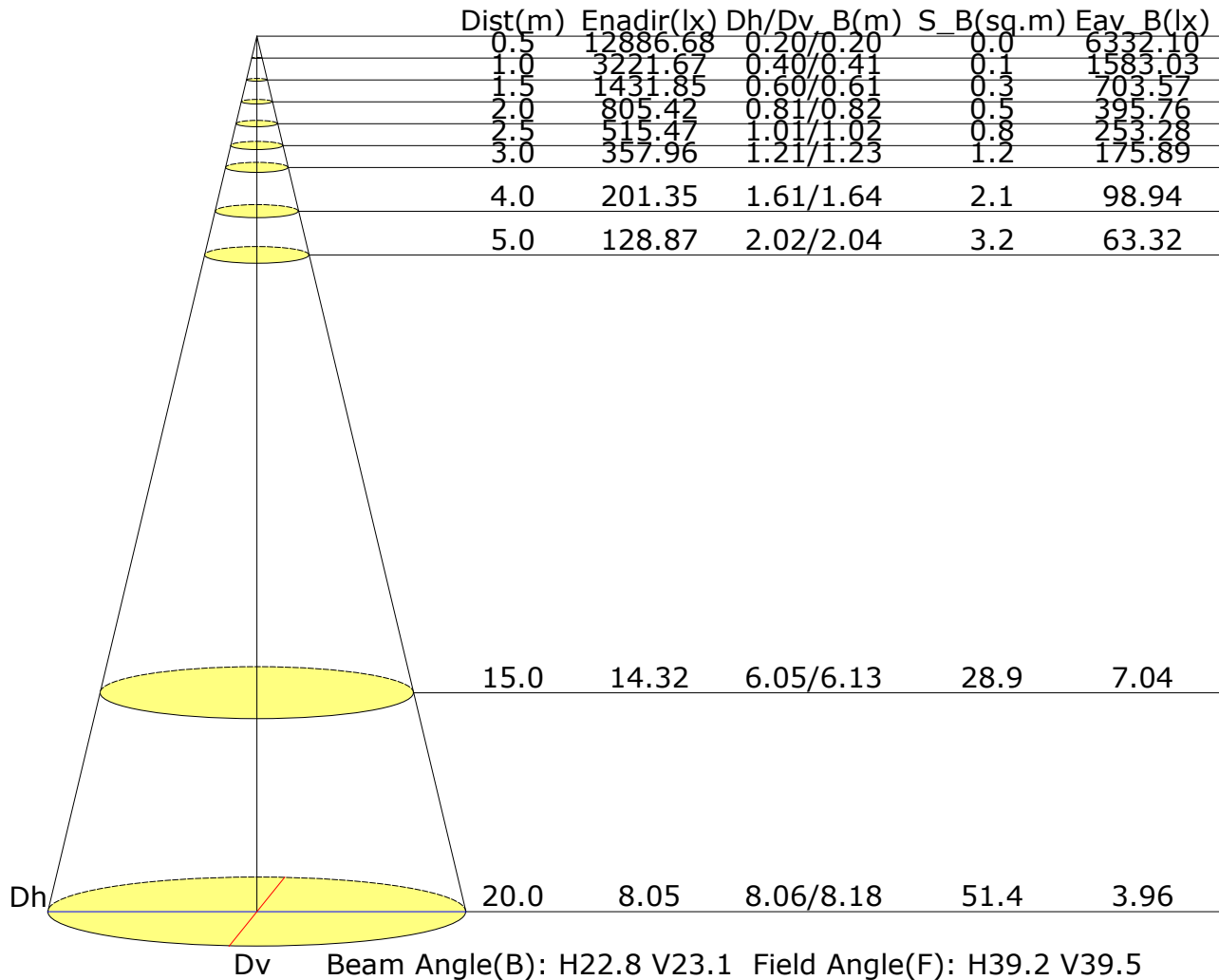
Test Device: CHL-6E

Distance: 2.905 m

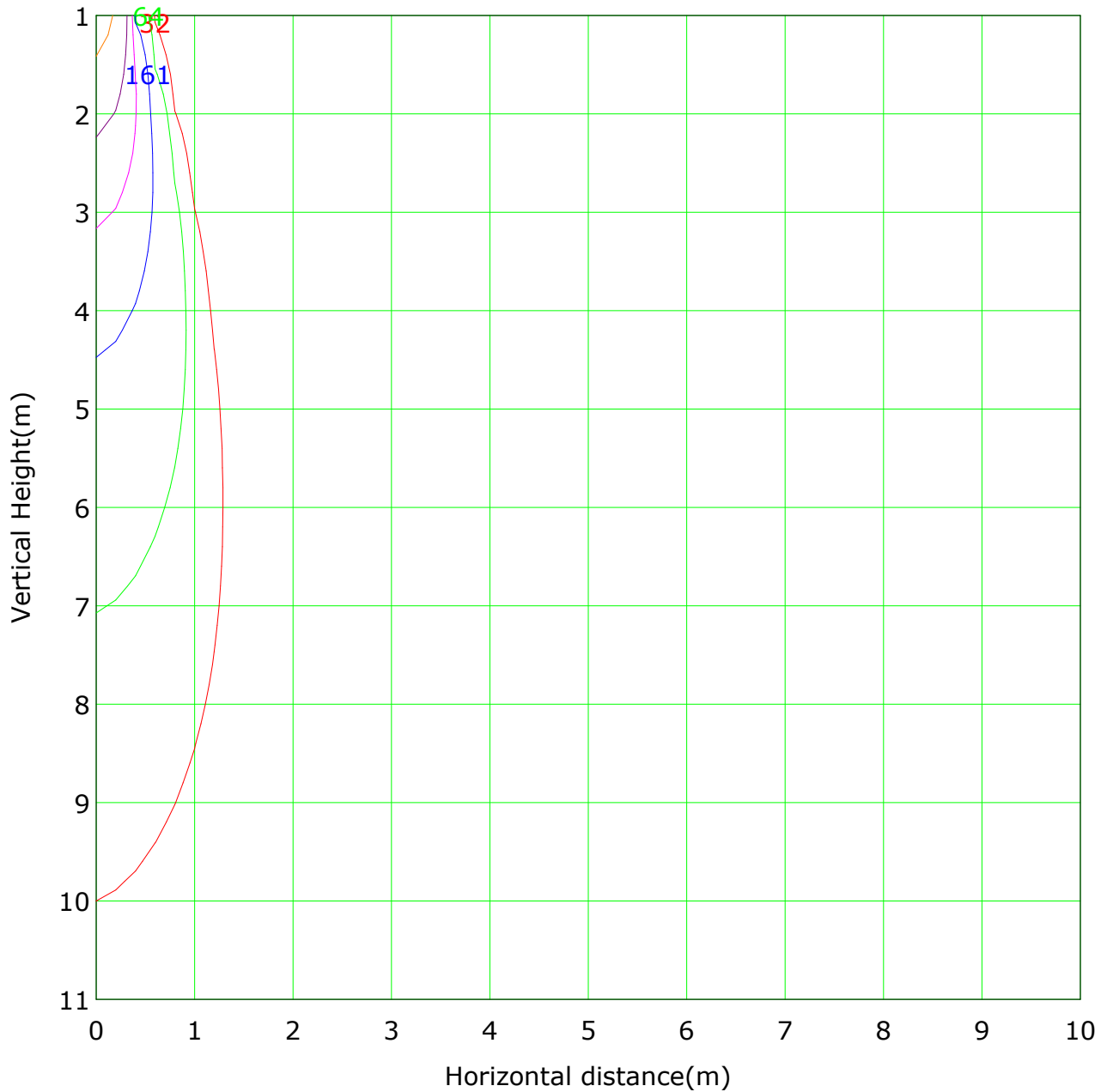
Humidity:

Inspector:

## Illuminance at a Distance



## Vertical IsoLux Plot



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

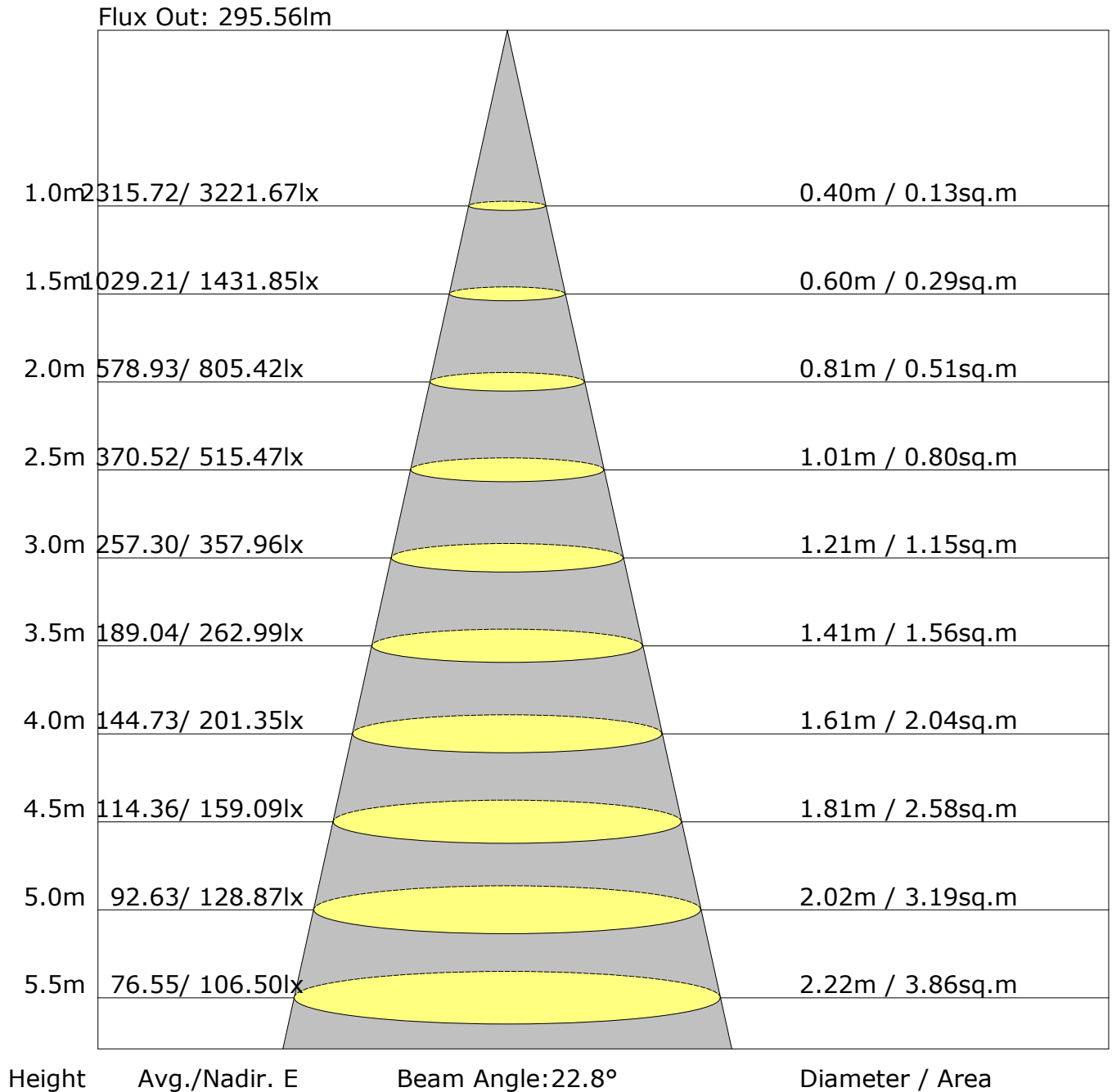
Gamma Plane (°):0.0-90.0:1.0  
Test Device: CHL-6E  
Distance: 2.905 m  
Humidity:  
Inspector:

## 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

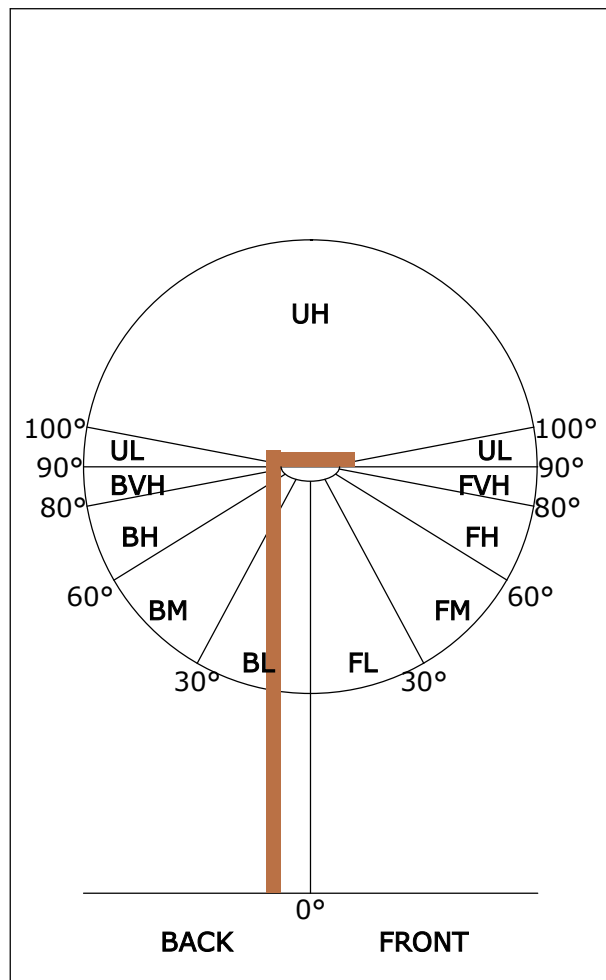
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	9.9	10.5	10.1	10.7	10.9	9.2	9.8	9.5	10.0	10.2
3H	11.4	11.9	11.7	12.1	12.4	9.9	10.4	10.2	10.7	10.9
4H	11.8	12.3	12.1	12.6	12.9	10.1	10.6	10.4	10.8	11.1
6H	12.3	12.8	12.7	13.1	13.4	10.3	10.8	10.6	11.1	11.4
8H	12.8	13.2	13.1	13.5	13.8	10.5	11.0	10.9	11.3	11.6
12H	13.6	14.0	13.9	14.3	14.6	11.0	11.4	11.3	11.7	12.0
X=4H Y=2H	10.2	10.7	10.5	11.0	11.2	9.6	10.1	9.9	10.4	10.6
3H	11.9	12.3	12.2	12.6	12.9	10.5	11.0	10.9	11.3	11.6
4H	12.4	12.8	12.8	13.2	13.5	10.8	11.2	11.2	11.5	11.9
6H	13.1	13.5	13.5	13.8	14.2	11.2	11.5	11.6	11.9	12.3
8H	13.7	14.0	14.1	14.4	14.8	11.5	11.8	11.9	12.2	12.6
12H	14.7	15.0	15.2	15.4	15.9	12.1	12.4	12.5	12.8	13.2
X=8H Y=4H	12.6	12.9	13.0	13.3	13.7	11.1	11.4	11.5	11.8	12.2
6H	13.4	13.7	13.9	14.1	14.6	11.6	11.9	12.1	12.3	12.8
8H	14.2	14.5	14.7	14.9	15.4	12.2	12.4	12.7	12.9	13.4
12H	15.6	15.8	16.1	16.3	16.8	13.1	13.3	13.6	13.8	14.3
X=12H Y=4H	12.6	12.8	13.0	13.3	13.7	11.1	11.4	11.6	11.8	12.3
6H	13.5	13.7	14.0	14.2	14.7	11.8	12.1	12.3	12.5	13.0
8H	14.4	14.6	14.9	15.1	15.6	12.5	12.7	13.0	13.2	13.7
Variations with the observer position at spacings:										
S=1.0H	+0.7/-0.5					+1.6/-1.0				
S=1.5H	+1.8/-1.2					+3.2/-1.6				
S=2.0H	+2.8/-0.8					+4.6/-1.8				

Calculate in accordance with CIE Pub.117. The table is revised with 591lm ( $8\log(F/F_0) = -1.8$ ).

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:

**FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM**



ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	275	46.5
FL ( 0°-30°)	256	43.3
FM (30°-60°)	15	2.6
FH (60°-80°)	3	0.5
FVH (80°-90°)	1	0.2
BACK LIGHT	316	53.5
BL ( 0°-30°)	300	50.7
BM (30°-60°)	15	2.6
BH (60°-80°)	1	0.2
BVH (80°-90°)	0	0.1
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	3215.0	3.1	3.1	0.52	0.52
1.0-2.0	3186.1	9.1	12.2	1.55	2.07
2.0-3.0	3126.1	15.0	27.2	2.53	4.60
3.0-4.0	3037.5	20.3	47.5	3.44	8.04
4.0-5.0	2926.7	25.2	72.7	4.26	12.30
5.0-6.0	2794.6	29.4	102.1	4.97	17.27
6.0-7.0	2639.0	32.8	134.8	5.54	22.81
7.0-8.0	2464.4	35.3	170.1	5.97	28.78
8.0-9.0	2274.1	36.9	207.0	6.24	35.02
9.0-10.0	2068.0	37.4	244.4	6.33	41.35
10.0-11.0	1847.6	36.9	281.3	6.25	47.59
11.0-12.0	1622.7	35.5	316.8	6.00	53.60
12.0-13.0	1401.5	33.3	350.1	5.63	59.23
13.0-14.0	1190.1	30.5	380.5	5.15	64.38
14.0-15.0	994.1	27.3	407.8	4.62	69.00
15.0-16.0	816.5	23.9	431.7	4.05	73.05
16.0-17.0	661.9	20.6	452.4	3.49	76.53
17.0-18.0	532.8	17.6	469.9	2.97	79.51
18.0-19.0	426.8	14.9	484.8	2.51	82.02
19.0-20.0	340.8	12.5	497.3	2.11	84.13
20.0-21.0	272.6	10.5	507.7	1.77	85.90
21.0-22.0	219.0	8.8	516.5	1.49	87.39
22.0-23.0	177.8	7.5	524.0	1.26	88.65
23.0-24.0	146.3	6.4	530.4	1.08	89.74
24.0-25.0	122.6	5.6	536.0	0.94	90.68
25.0-26.0	104.1	4.9	540.9	0.83	91.51
26.0-27.0	89.2	4.4	545.2	0.74	92.25
27.0-28.0	77.1	3.9	549.1	0.66	92.91
28.0-29.0	67.0	3.5	552.6	0.59	93.50
29.0-30.0	58.5	3.2	555.8	0.53	94.04
30.0-31.0	51.3	2.9	558.7	0.48	94.52
31.0-32.0	45.1	2.6	561.2	0.44	94.96
32.0-33.0	39.8	2.3	563.6	0.40	95.35
33.0-34.0	34.9	2.1	565.7	0.36	95.71
34.0-35.0	30.4	1.9	567.6	0.32	96.03
35.0-36.0	26.5	1.7	569.3	0.29	96.31

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

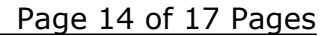
Gamma Plane (°):0.0-90.0:1.0  
Test Device: CHL-6E  
Distance: 2.905 m  
Humidity:  
Inspector:

## 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	23.3	1.5	570.8	0.26	96.57
37.0-38.0	20.6	1.4	572.2	0.23	96.80
38.0-39.0	18.5	1.3	573.4	0.21	97.02
39.0-40.0	16.6	1.2	574.6	0.20	97.22
40.0-41.0	14.7	1.0	575.6	0.18	97.39
41.0-42.0	13.1	1.0	576.6	0.16	97.55
42.0-43.0	11.9	0.9	577.5	0.15	97.70
43.0-44.0	10.8	0.8	578.3	0.14	97.84
44.0-45.0	9.9	0.8	579.0	0.13	97.97
45.0-46.0	9.3	0.7	579.8	0.12	98.09
46.0-47.0	8.8	0.7	580.5	0.12	98.21
47.0-48.0	8.1	0.7	581.1	0.11	98.32
48.0-49.0	7.5	0.6	581.7	0.10	98.43
49.0-50.0	6.9	0.6	582.3	0.10	98.52
50.0-51.0	6.3	0.5	582.9	0.09	98.61
51.0-52.0	5.7	0.5	583.3	0.08	98.70
52.0-53.0	5.2	0.5	583.8	0.08	98.77
53.0-54.0	4.8	0.4	584.2	0.07	98.84
54.0-55.0	4.3	0.4	584.6	0.06	98.91
55.0-56.0	3.9	0.4	585.0	0.06	98.97
56.0-57.0	3.7	0.3	585.3	0.06	99.03
57.0-58.0	3.4	0.3	585.6	0.05	99.08
58.0-59.0	3.1	0.3	585.9	0.05	99.13
59.0-60.0	2.8	0.3	586.2	0.04	99.17
60.0-61.0	2.5	0.2	586.4	0.04	99.21
61.0-62.0	2.3	0.2	586.6	0.04	99.25
62.0-63.0	2.4	0.2	586.9	0.04	99.29
63.0-64.0	2.5	0.2	587.1	0.04	99.33
64.0-65.0	2.5	0.2	587.3	0.04	99.37
65.0-66.0	2.5	0.3	587.6	0.04	99.41
66.0-67.0	2.5	0.3	587.8	0.04	99.46
67.0-68.0	2.4	0.2	588.1	0.04	99.50
68.0-69.0	2.2	0.2	588.3	0.04	99.54
69.0-70.0	2.0	0.2	588.5	0.03	99.57
70.0-71.0	1.7	0.2	588.7	0.03	99.60
71.0-72.0	1.5	0.2	588.8	0.03	99.63

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	3221.7	3221.7								
G1.0	3164.9	3251.9								
G2.0	3076.4	3251.3								
G3.0	2957.8	3219.0								
G4.0	2815.0	3158.0								
G5.0	2654.9	3078.8								
G6.0	2474.8	2970.1								
G7.0	2284.6	2826.7								
G8.0	2083.4	2662.7								
G9.0	1871.7	2478.7								
G10.0	1652.2	2269.3								
G11.0	1435.3	2033.7								
G12.0	1228.7	1793.1								
G13.0	1040.3	1543.9								
G14.0	866.5	1309.8								
G15.0	707.3	1092.6								
G16.0	569.2	896.7								
G17.0	455.5	726.1								
G18.0	362.6	586.9								
G19.0	288.0	469.8								
G20.0	228.9	376.8								
G21.0	182.6	302.1								
G22.0	147.1	244.3								
G23.0	120.0	199.8								
G24.0	99.8	165.6								
G25.0	86.0	138.9								
G26.0	74.0	117.5								
G27.0	64.9	100.3								
G28.0	56.8	86.6								
G29.0	49.9	74.7								
G30.0	44.2	65.0								
G31.0	39.2	56.9								
G32.0	34.4	49.9								
G33.0	30.5	44.2								
G34.0	27.0	38.0								
G35.0	23.8	32.7								
G36.0	21.1	28.4								

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:

## Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	19.0	24.6								
G38.0	17.6	21.3								
G39.0	16.5	18.7								
G40.0	15.1	16.2								
G41.0	13.8	13.7								
G42.0	13.4	11.5								
G43.0	12.9	9.6								
G44.0	12.3	8.3								
G45.0	11.9	7.1								
G46.0	11.5	6.7								
G47.0	11.1	6.0								
G48.0	10.1	5.4								
G49.0	9.4	5.0								
G50.0	8.4	4.8								
G51.0	7.6	4.3								
G52.0	7.4	3.6								
G53.0	6.6	3.4								
G54.0	6.3	2.9								
G55.0	5.7	2.2								
G56.0	5.6	2.1								
G57.0	5.3	1.7								
G58.0	5.0	1.4								
G59.0	4.8	1.1								
G60.0	4.5	0.7								
G61.0	4.5	0.1								
G62.0	4.8	0.0								
G63.0	4.9	0.0								
G64.0	5.0	0.0								
G65.0	5.0	0.0								
G66.0	5.0	0.0								
G67.0	5.0	0.0								
G68.0	4.5	0.0								
G69.0	4.2	0.0								
G70.0	3.6	0.0								
G71.0	3.2	0.0								
G72.0	2.9	0.0								
G73.0	2.7	0.0								

C Plane (°):0.0-180.0: 180.0

Test Lab:

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Gamma Plane (°):0.0-90.0:1.0

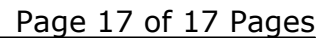
Test Device: CHL-6E

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: