

Report No.:

Test Time: 2025-09-23 17:15

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 15D

Luminous Width (mm): -55

Current: 0.097 A

Power Factor: 0.621

Luminous Length (mm): -55

Voltage: 231.5 V

Power: 14.00 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 1470.3 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H17.3

Vertical Diffuse Angle(50%): V17.3

Luminaire Efficacy Rating (LER): 105.07

Max. Intensity: 8727.75 cd

S/MH(C0/C180): 0.29

Total Rated Lamp Lumens: 1470.3 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 8727.75 cd

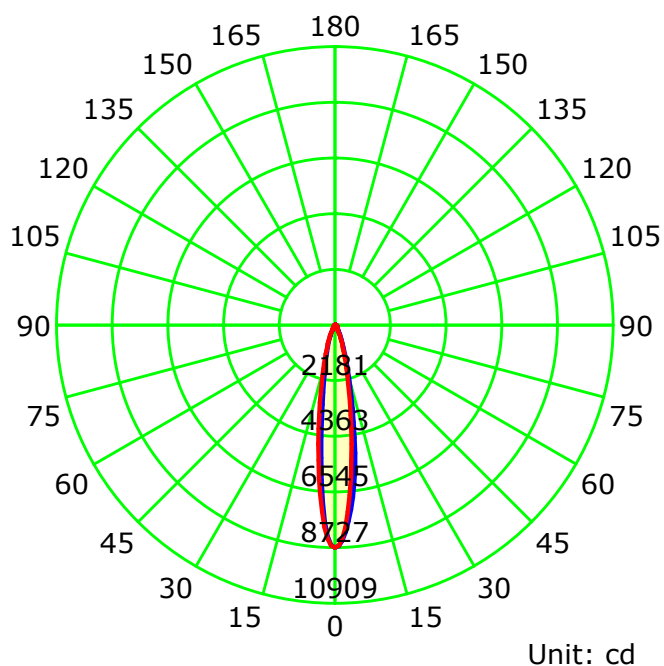
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 0.29

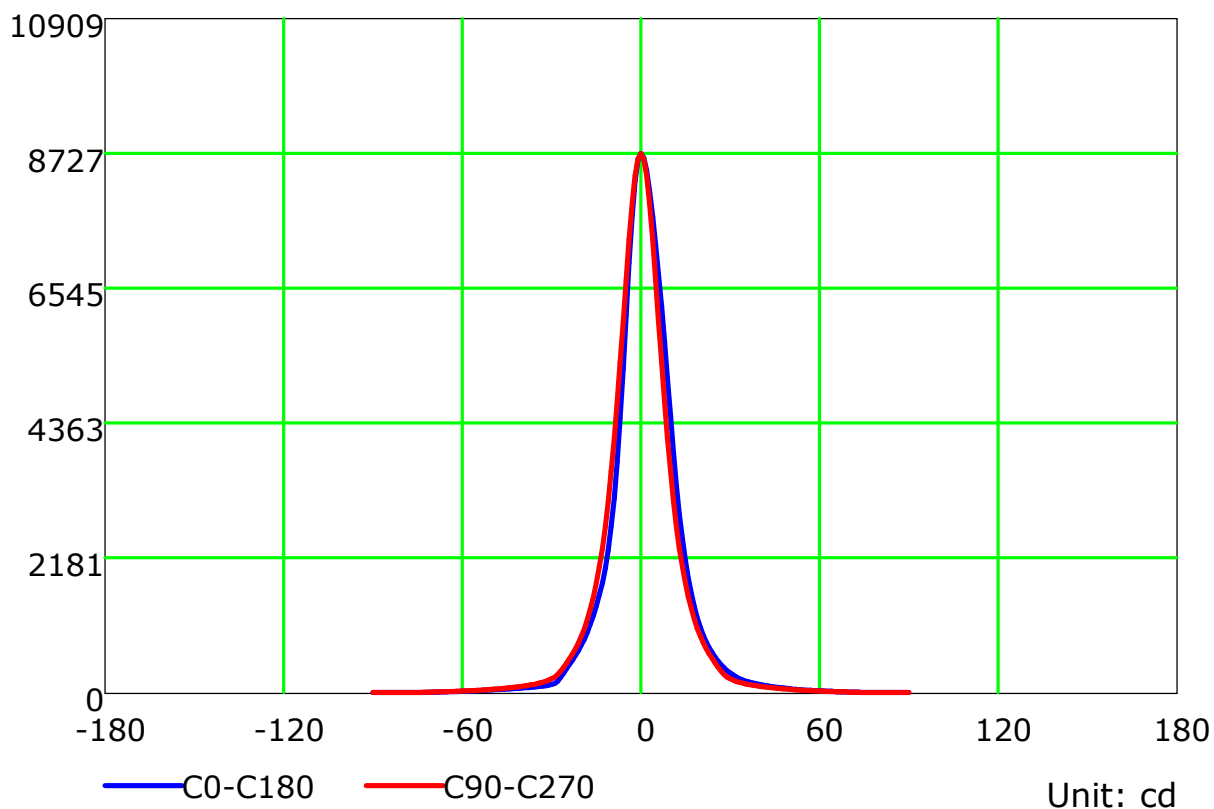
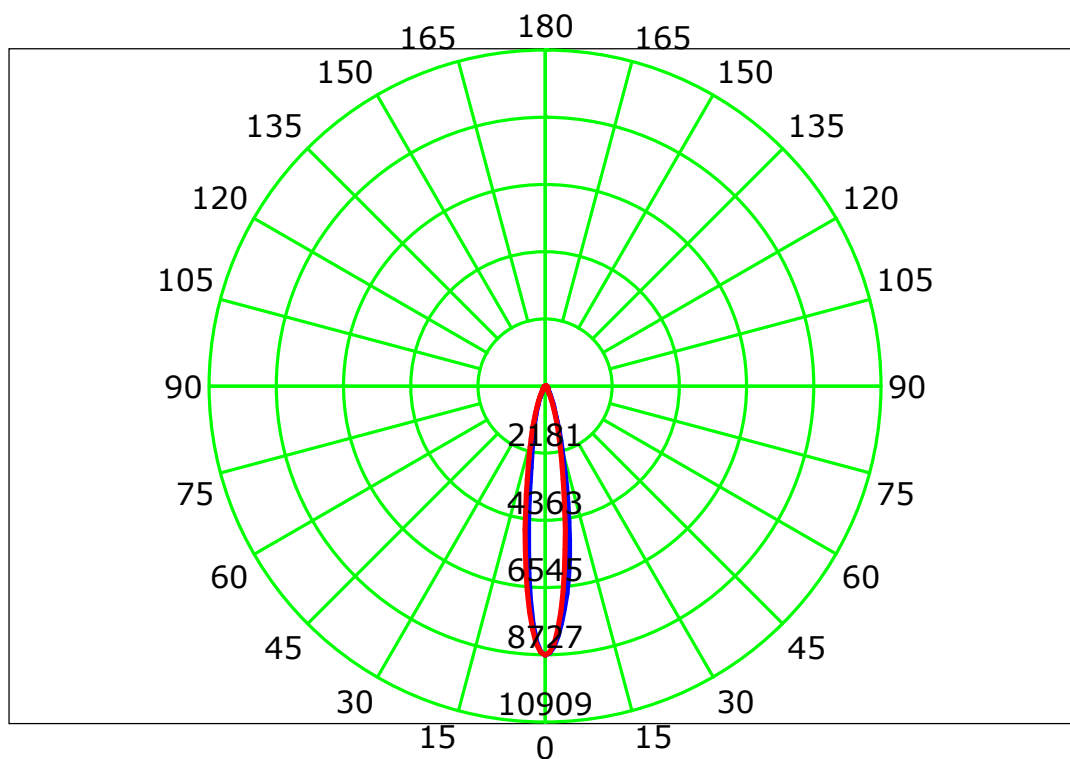
Picture Of Luminaire



Luminous Intensity Distribution Curve



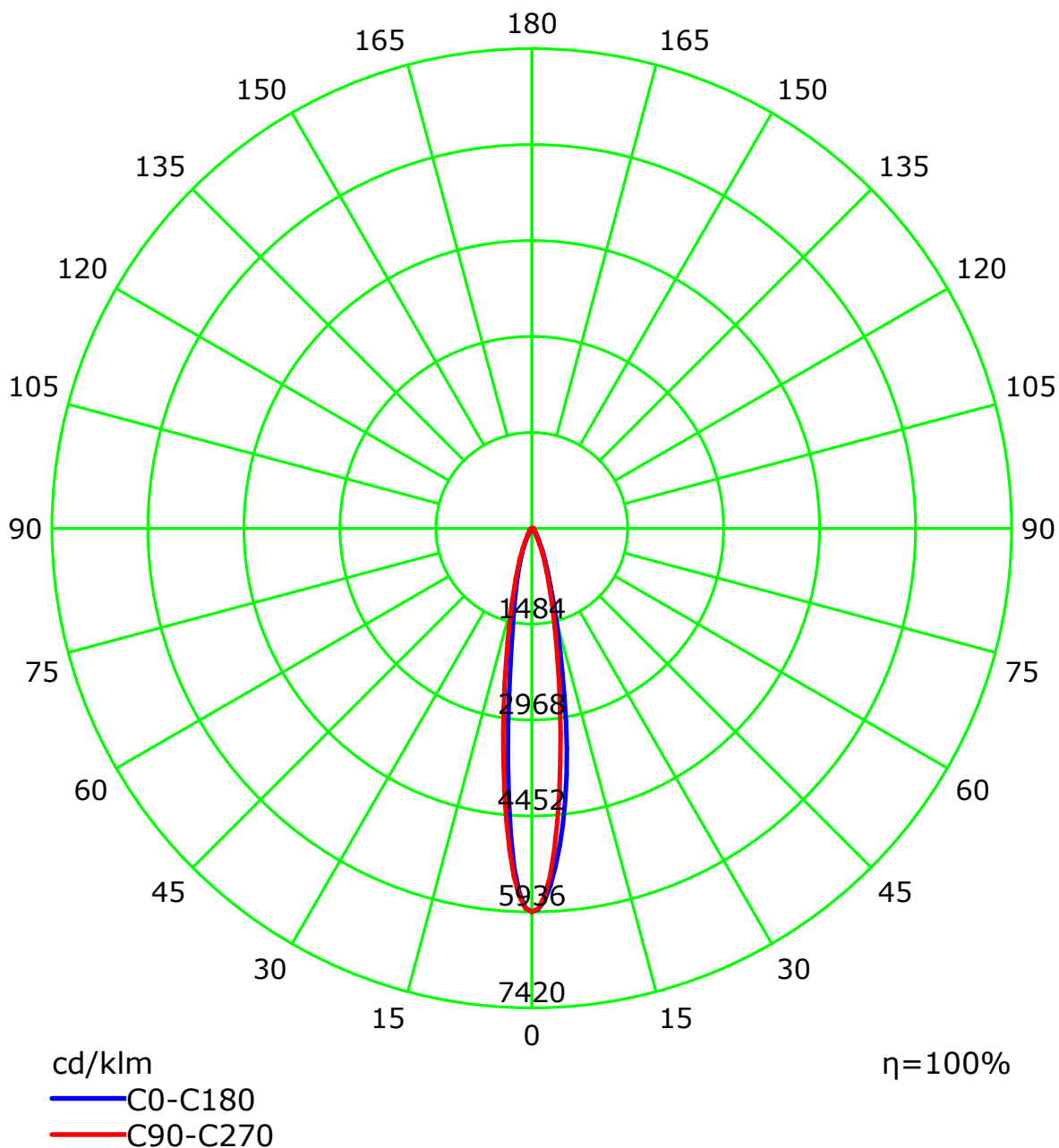
## Luminous Intensity Distribution Curve



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:

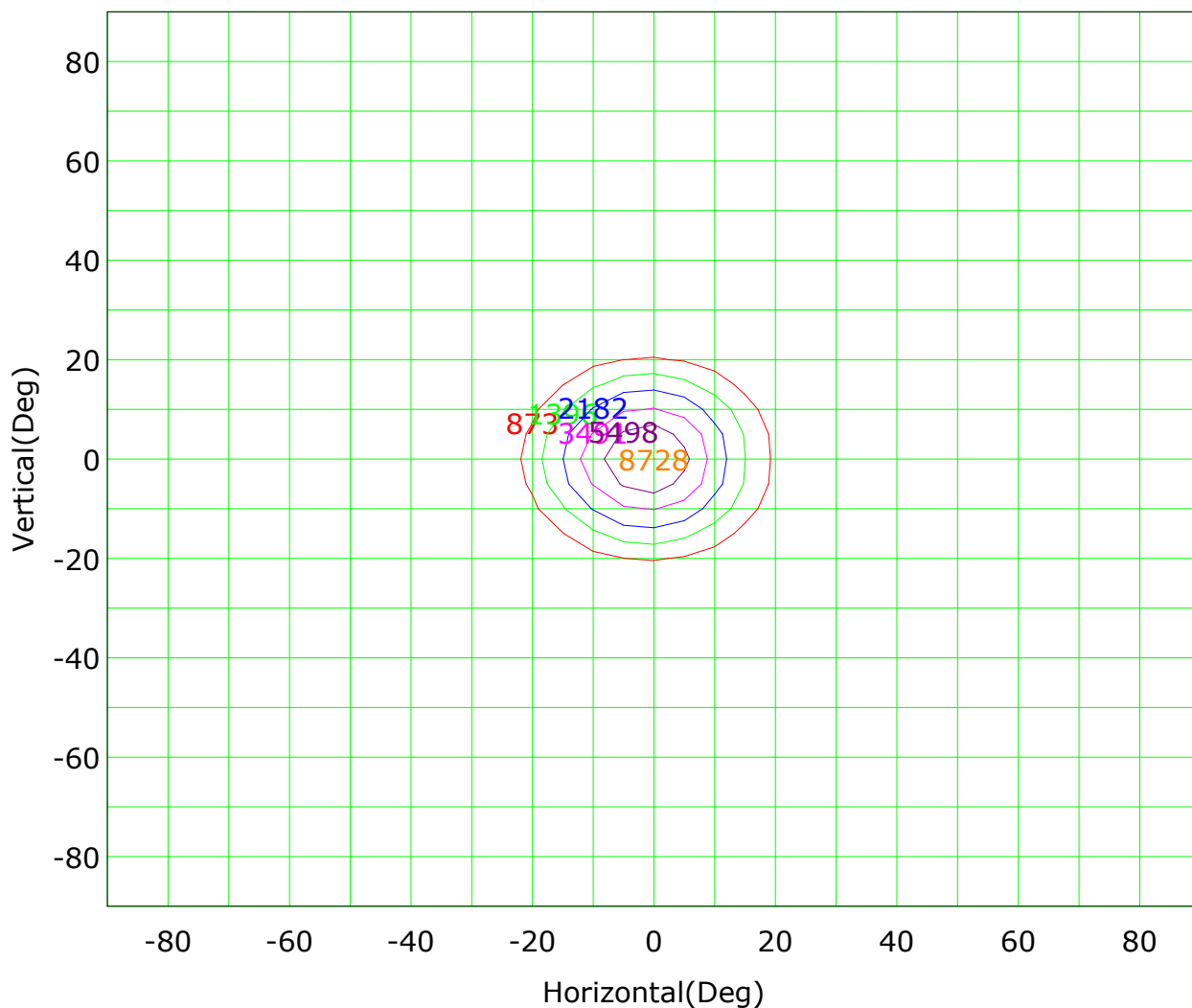
## Luminous Intensity Distribution Curve(cd/klm)



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%): 8728 cd

( 10%): 873 cd	( 16%): 1396 cd
( 25%): 2182 cd	( 40%): 3491 cd
( 63%): 5498 cd	(100%): 8728 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

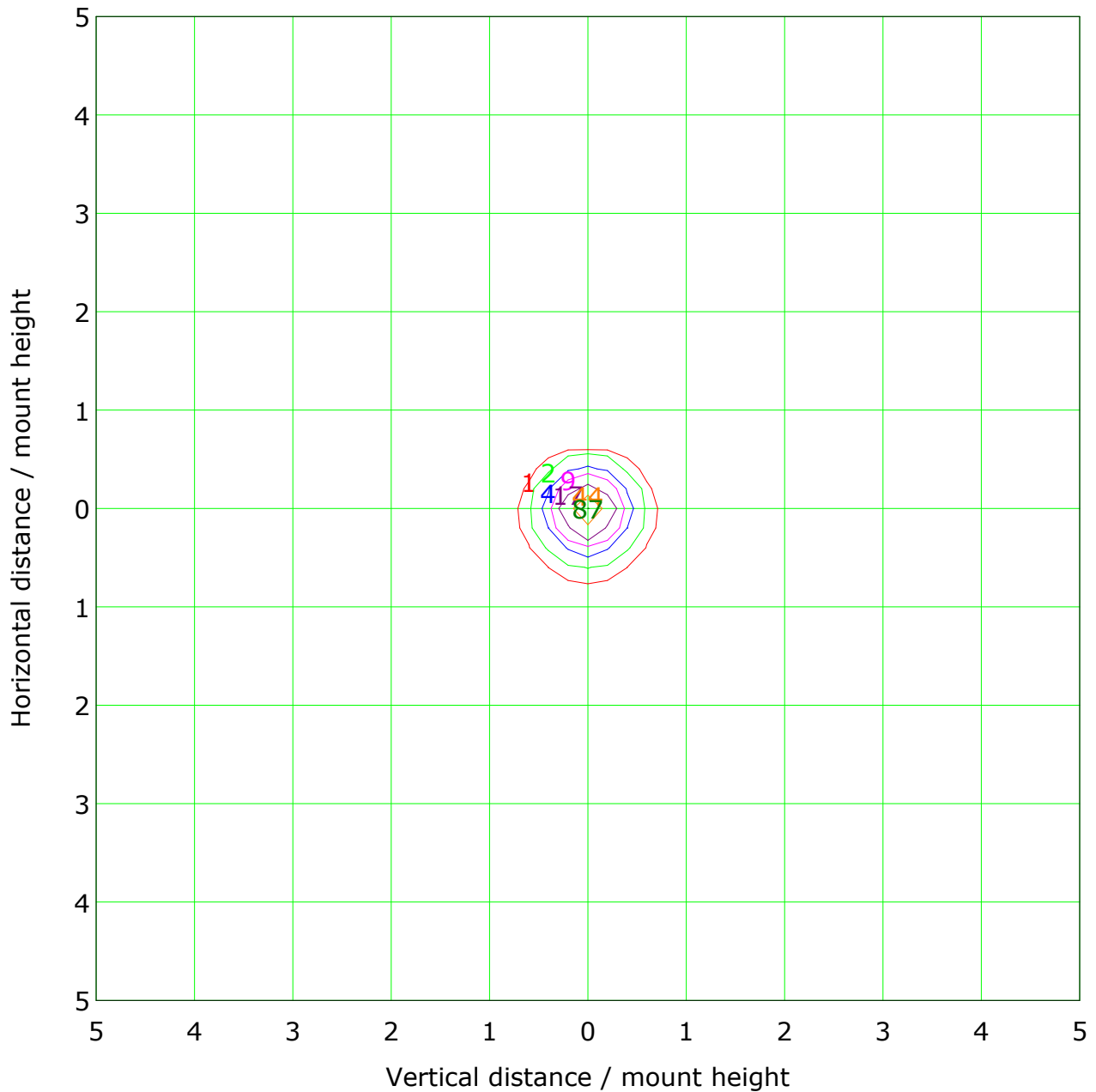
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

## IsoLux Plot



Mounting Height: 10.0m    Max Lux(100%): 87.3 lx

( 1%): 0.9 lx	( 2%): 1.7 lx
( 5%): 4.4 lx	( 10%): 8.7 lx
( 20%): 17.5 lx	( 50%): 43.6 lx
(100%): 87.3 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

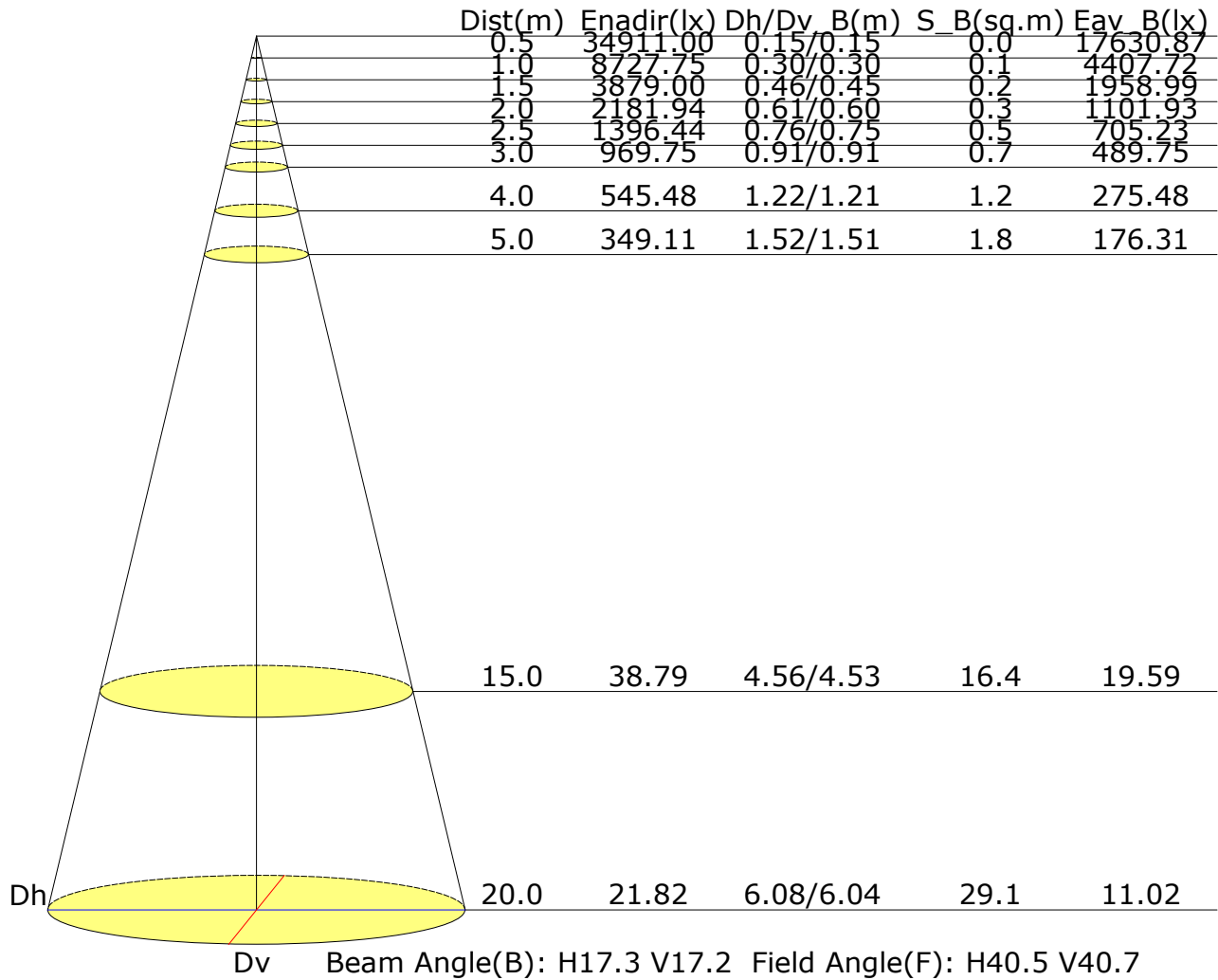
Test Device: CHL-6E

Distance: 2.905 m

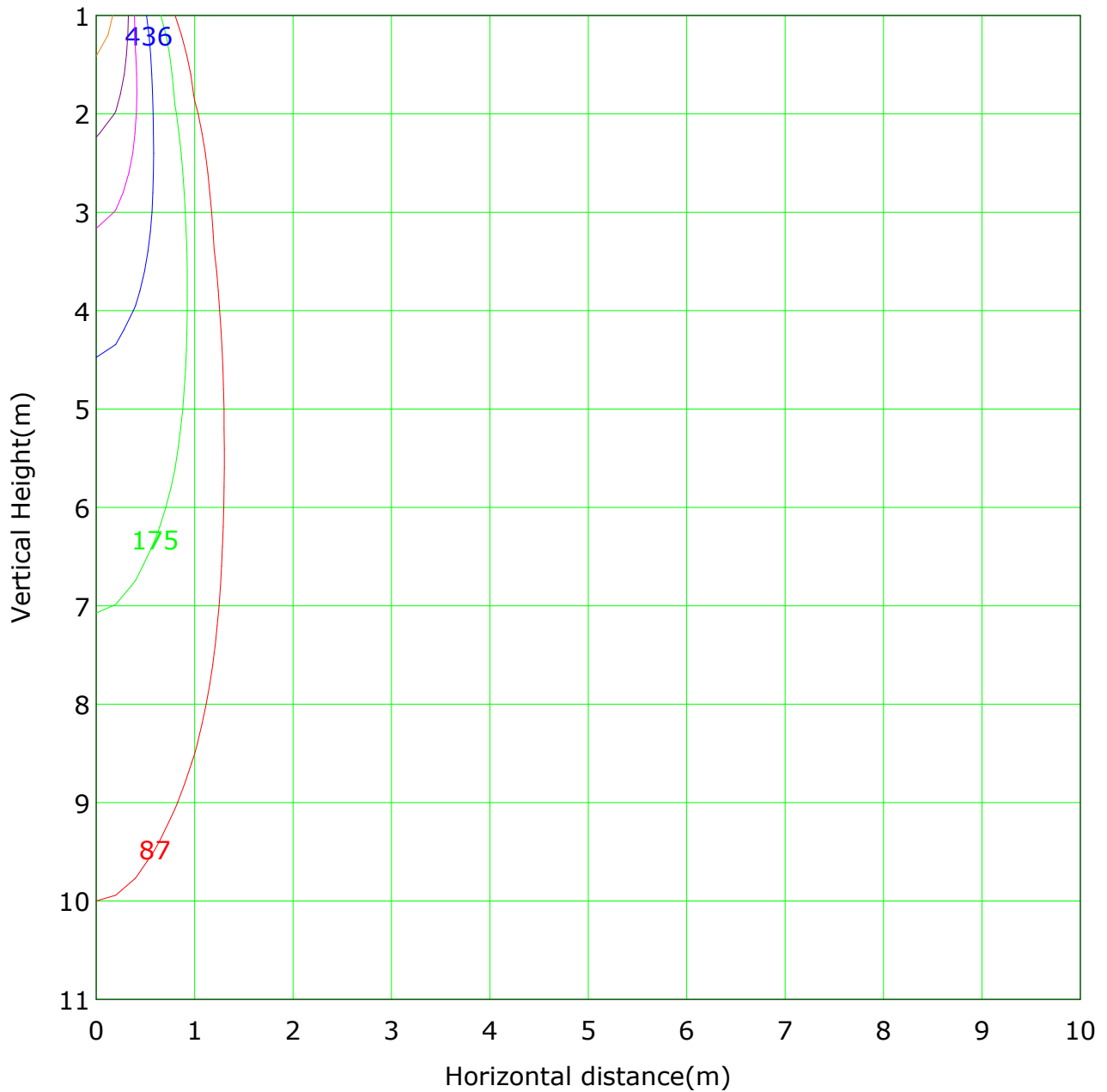
Humidity:

Inspector:

## Illuminance at a Distance



## Vertical IsoLux Plot



Lowest(m): 1.0m    Highest(m): 11.0m    Max Lux: 8727.8 lx  
— ( 1%): 87.3 lx                      — ( 2%): 174.6 lx  
— ( 5%): 436.4 lx                      — ( 10%): 872.8 lx  
— ( 20%): 1745.6 lx                    — ( 50%): 4363.9 lx  
— (100%): 8727.8 lx

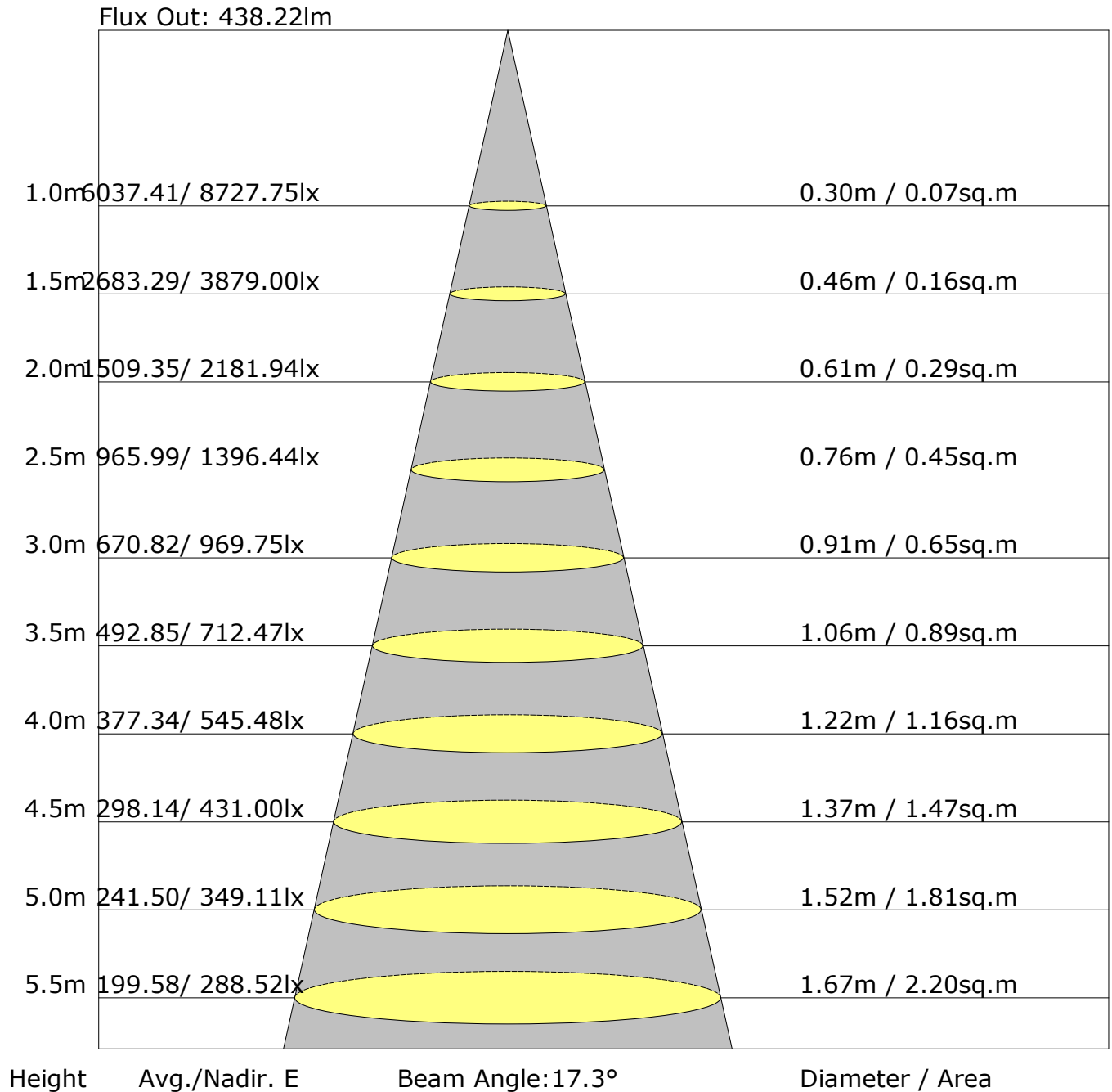
C Plane (°): 0.0-180.0: 180.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

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

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	19.7	20.4	19.9	20.5	20.7	18.9	19.6	19.2	19.8	20.0
3H	19.9	20.6	20.2	20.8	21.0	19.2	19.8	19.4	20.0	20.2
4H	19.9	20.5	20.2	20.8	21.0	19.1	19.7	19.4	20.0	20.2
6H	19.9	20.4	20.2	20.7	21.0	19.1	19.6	19.4	19.9	20.2
8H	19.8	20.3	20.2	20.6	20.9	19.0	19.5	19.4	19.8	20.1
12H	19.8	20.3	20.1	20.6	20.9	19.0	19.5	19.3	19.8	20.1
X=4H Y=2H	19.8	20.4	20.1	20.6	20.9	19.1	19.7	19.4	19.9	20.2
3H	20.1	20.6	20.4	20.9	21.2	19.4	19.9	19.7	20.2	20.5
4H	20.1	20.5	20.5	20.9	21.2	19.4	19.8	19.8	20.2	20.5
6H	20.0	20.4	20.4	20.8	21.2	19.3	19.7	19.7	20.1	20.4
8H	20.0	20.3	20.4	20.7	21.1	19.3	19.6	19.7	20.0	20.4
12H	19.9	20.2	20.4	20.7	21.1	19.2	19.5	19.6	19.9	20.4
X=8H Y=4H	20.0	20.4	20.4	20.8	21.2	19.3	19.7	19.7	20.0	20.5
6H	19.9	20.2	20.4	20.6	21.1	19.2	19.5	19.7	19.9	20.4
8H	19.9	20.1	20.3	20.6	21.0	19.2	19.4	19.6	19.9	20.3
12H	19.8	20.0	20.3	20.5	21.0	19.1	19.3	19.6	19.8	20.3
X=12H Y=4H	20.0	20.3	20.4	20.7	21.1	19.2	19.6	19.7	20.0	20.4
6H	19.9	20.1	20.3	20.6	21.0	19.2	19.4	19.6	19.9	20.3
8H	19.8	20.0	20.3	20.5	21.0	19.1	19.3	19.6	19.8	20.3
Variations with the observer position at spacings:										
S=1.0H	+1.6/-1.7					+1.1/-1.6				
S=1.5H	+3.3/-3.0					+2.5/-3.0				
S=2.0H	+5.0/-4.7					+4.1/-4.5				

Calculate in accordance with CIE Pub.117. The table is revised with  $1470\text{lm}$  ( $8\log(F/F_0) = 1.3$ ).

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	805	54.8
	FL ( 0°-30°)	690	46.9
	FM (30°-60°)	105	7.1
	FH (60°-80°)	11	0.7
	FVH (80°-90°)	0	0.0
	BACK LIGHT	665	45.2
	BL ( 0°-30°)	576	39.2
	BM (30°-60°)	80	5.4
	BH (60°-80°)	9	0.6
	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)	B2 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B2 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	8684.9	8.3	8.3	0.57	0.57
1.0-2.0	8507.3	24.4	32.7	1.66	2.23
2.0-3.0	8148.5	39.0	71.7	2.65	4.88
3.0-4.0	7630.6	51.1	122.8	3.47	8.35
4.0-5.0	7006.4	60.3	183.1	4.10	12.45
5.0-6.0	6342.2	66.7	249.7	4.53	16.99
6.0-7.0	5675.8	70.5	320.2	4.79	21.78
7.0-8.0	5025.7	71.9	392.1	4.89	26.67
8.0-9.0	4411.6	71.5	463.6	4.86	31.53
9.0-10.0	3846.7	69.6	533.3	4.74	36.27
10.0-11.0	3335.9	66.7	599.9	4.53	40.80
11.0-12.0	2888.0	63.1	663.1	4.29	45.10
12.0-13.0	2507.4	59.5	722.6	4.05	49.15
13.0-14.0	2183.7	55.9	778.5	3.80	52.95
14.0-15.0	1906.3	52.3	830.8	3.56	56.51
15.0-16.0	1665.5	48.8	879.6	3.32	59.83
16.0-17.0	1454.9	45.3	924.9	3.08	62.91
17.0-18.0	1271.9	41.9	966.9	2.85	65.76
18.0-19.0	1112.9	38.7	1005.6	2.63	68.40
19.0-20.0	975.6	35.7	1041.3	2.43	70.83
20.0-21.0	859.1	33.0	1074.3	2.24	73.07
21.0-22.0	759.4	30.5	1104.8	2.08	75.15
22.0-23.0	672.0	28.2	1133.0	1.92	77.06
23.0-24.0	591.6	25.9	1158.9	1.76	78.82
24.0-25.0	517.1	23.5	1182.4	1.60	80.42
25.0-26.0	447.6	21.1	1203.6	1.44	81.86
26.0-27.0	380.2	18.6	1222.2	1.27	83.12
27.0-28.0	319.8	16.2	1238.4	1.10	84.23
28.0-29.0	272.8	14.3	1252.6	0.97	85.20
29.0-30.0	239.1	12.9	1265.5	0.88	86.08
30.0-31.0	214.5	11.9	1277.5	0.81	86.89
31.0-32.0	194.8	11.2	1288.6	0.76	87.65
32.0-33.0	178.0	10.5	1299.1	0.71	88.36
33.0-34.0	162.9	9.9	1309.0	0.67	89.03
34.0-35.0	149.9	9.3	1318.3	0.63	89.66
35.0-36.0	139.0	8.9	1327.2	0.60	90.27

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	129.5	8.5	1335.6	0.57	90.84
37.0-38.0	121.1	8.1	1343.7	0.55	91.39
38.0-39.0	113.4	7.7	1351.4	0.53	91.92
39.0-40.0	106.0	7.4	1358.8	0.50	92.42
40.0-41.0	99.4	7.1	1365.9	0.48	92.90
41.0-42.0	93.0	6.8	1372.7	0.46	93.36
42.0-43.0	87.4	6.5	1379.1	0.44	93.80
43.0-44.0	82.5	6.2	1385.4	0.42	94.23
44.0-45.0	77.6	6.0	1391.3	0.41	94.63
45.0-46.0	72.7	5.7	1397.0	0.39	95.02
46.0-47.0	68.5	5.4	1402.5	0.37	95.39
47.0-48.0	63.9	5.2	1407.6	0.35	95.74
48.0-49.0	59.7	4.9	1412.5	0.33	96.07
49.0-50.0	56.2	4.7	1417.2	0.32	96.39
50.0-51.0	51.6	4.4	1421.6	0.30	96.69
51.0-52.0	47.7	4.1	1425.7	0.28	96.97
52.0-53.0	44.2	3.8	1429.5	0.26	97.23
53.0-54.0	40.7	3.6	1433.1	0.24	97.47
54.0-55.0	37.9	3.4	1436.5	0.23	97.70
55.0-56.0	35.1	3.2	1439.7	0.22	97.92
56.0-57.0	33.0	3.0	1442.7	0.21	98.12
57.0-58.0	30.9	2.9	1445.5	0.19	98.32
58.0-59.0	28.4	2.7	1448.2	0.18	98.50
59.0-60.0	26.7	2.5	1450.7	0.17	98.67
60.0-61.0	24.2	2.3	1453.0	0.16	98.83
61.0-62.0	21.8	2.1	1455.1	0.14	98.97
62.0-63.0	20.4	2.0	1457.1	0.13	99.11
63.0-64.0	19.3	1.9	1459.0	0.13	99.23
64.0-65.0	17.6	1.7	1460.7	0.12	99.35
65.0-66.0	14.7	1.5	1462.2	0.10	99.45
66.0-67.0	13.3	1.3	1463.6	0.09	99.54
67.0-68.0	12.3	1.2	1464.8	0.08	99.63
68.0-69.0	10.9	1.1	1465.9	0.08	99.70
69.0-70.0	9.1	0.9	1466.9	0.06	99.77
70.0-71.0	7.7	0.8	1467.7	0.05	99.82
71.0-72.0	6.7	0.7	1468.3	0.05	99.87

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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	8727.8	8727.8								
G1.0	8658.9	8625.2								
G2.0	8455.3	8289.6								
G3.0	8126.7	7722.3								
G4.0	7711.0	6962.5								
G5.0	7251.8	6100.3								
G6.0	6771.5	5245.1								
G7.0	6247.8	4439.0								
G8.0	5680.4	3735.4								
G9.0	5080.8	3149.9								
G10.0	4469.9	2686.4								
G11.0	3877.3	2310.1								
G12.0	3349.3	2015.2								
G13.0	2888.6	1776.4								
G14.0	2487.0	1582.7								
G15.0	2148.6	1407.1								
G16.0	1855.1	1251.2								
G17.0	1600.9	1112.2								
G18.0	1390.3	984.4								
G19.0	1207.7	869.3								
G20.0	1053.2	772.4								
G21.0	926.8	683.9								
G22.0	820.1	606.7								
G23.0	727.4	533.6								
G24.0	644.6	460.6								
G25.0	573.0	390.4								
G26.0	509.8	317.4								
G27.0	449.4	244.4								
G28.0	401.6	184.0								
G29.0	355.3	150.3								
G30.0	317.4	133.4								
G31.0	285.1	122.2								
G32.0	258.4	113.8								
G33.0	231.7	108.1								
G34.0	210.6	101.1								
G35.0	191.0	96.9								
G36.0	178.4	89.9								

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:

## Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	162.9	87.1								
G38.0	151.7	82.8								
G39.0	140.4	78.6								
G40.0	130.6	74.4								
G41.0	122.2	70.2								
G42.0	112.3	67.4								
G43.0	105.3	64.6								
G44.0	98.3	61.8								
G45.0	91.3	59.0								
G46.0	84.3	56.2								
G47.0	80.1	53.4								
G48.0	73.0	49.2								
G49.0	68.8	47.8								
G50.0	64.6	43.5								
G51.0	56.2	42.1								
G52.0	53.4	39.3								
G53.0	47.8	36.5								
G54.0	44.9	33.7								
G55.0	40.7	32.3								
G56.0	37.9	29.5								
G57.0	36.5	28.1								
G58.0	33.7	25.3								
G59.0	32.3	22.5								
G60.0	29.5	22.5								
G61.0	26.7	18.3								
G62.0	23.9	18.3								
G63.0	22.5	16.9								
G64.0	21.1	16.9								
G65.0	18.3	14.0								
G66.0	15.4	11.2								
G67.0	15.4	11.2								
G68.0	12.6	9.8								
G69.0	11.2	9.8								
G70.0	9.8	5.6								
G71.0	9.8	5.6								
G72.0	7.0	4.2								
G73.0	7.0	4.2								

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Test Device: CHL-6E  
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Inspector:



Unit: cd

Inspector: