

Report No.:

Test Time: 2025-09-25 16:06

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 15D

Luminous Width (mm): -25

Current: 0.065 A

Power Factor: 0.548

Luminous Length (mm): -25

Voltage: 231.6 V

Power: 8.20 W

Photometric Results

CIE Class: Direct

Measurement Flux: 388.1 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H17.3

Vertical Diffuse Angle(50%): V17.3

Luminaire Efficacy Rating (LER): 47.38

Max. Intensity: 3565.57 cd

S/MH(C0/C180): 0.30

Total Rated Lamp Lumens: 388.1 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 3565.56 cd

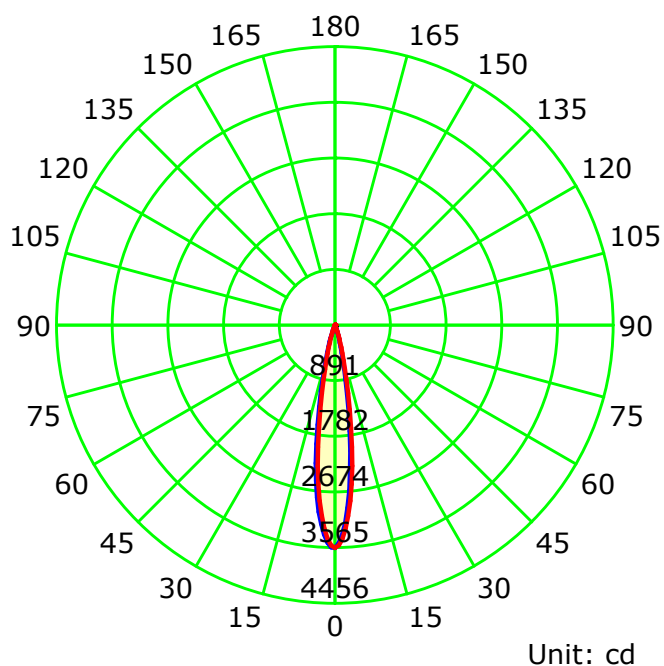
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 0.30

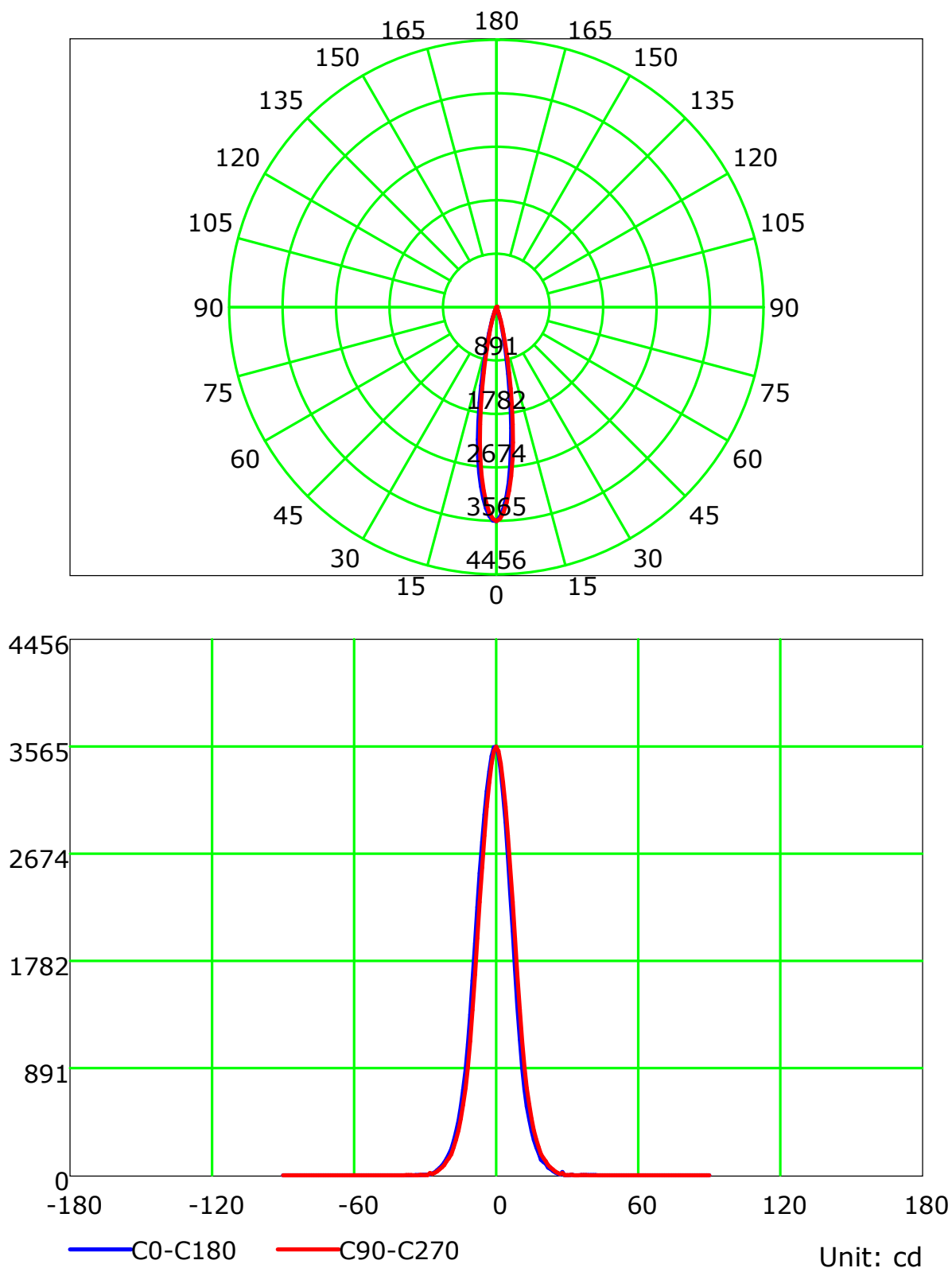
Picture Of Luminaire



Luminous Intensity Distribution Curve



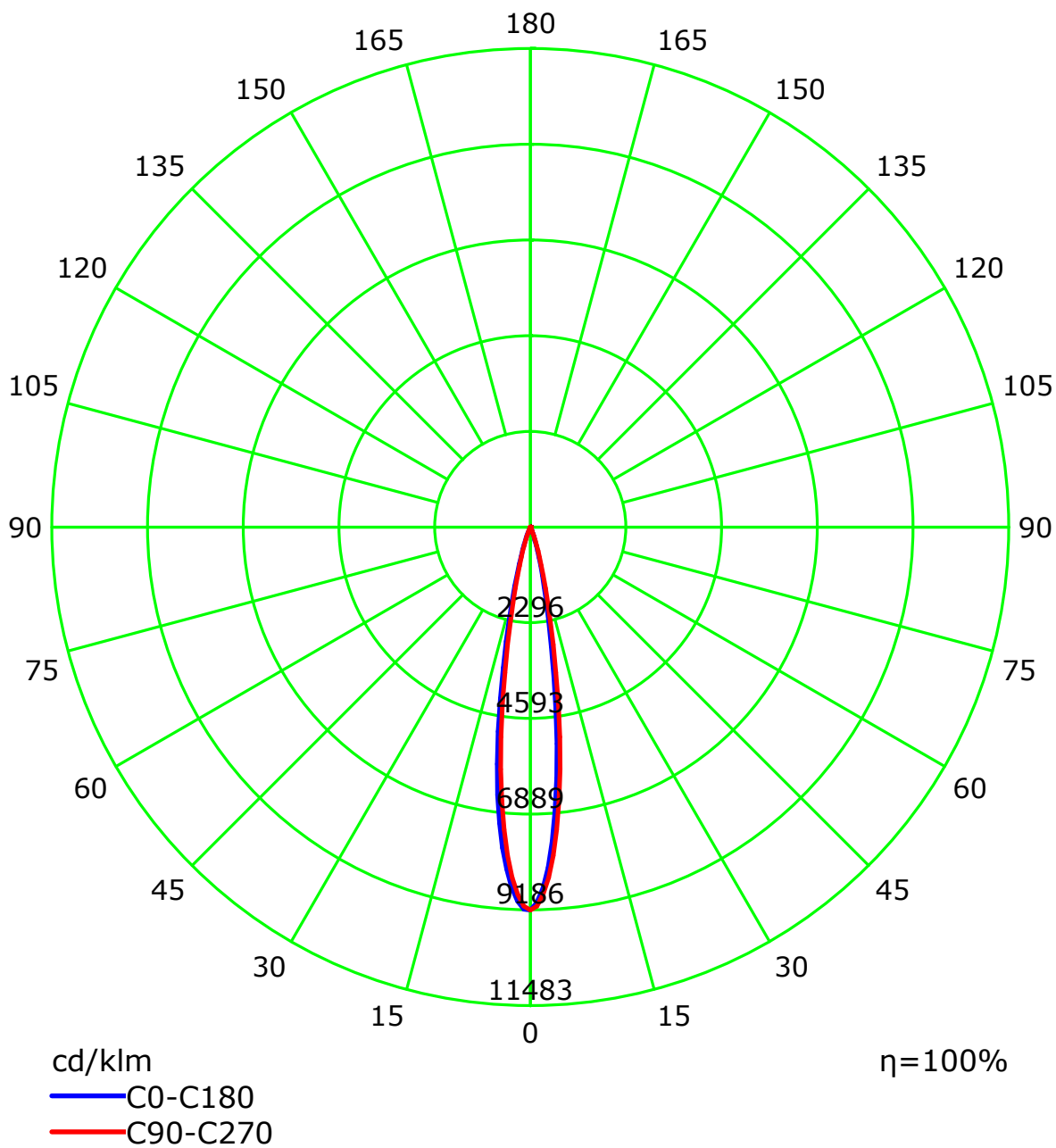
Luminous Intensity Distribution Curve



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:

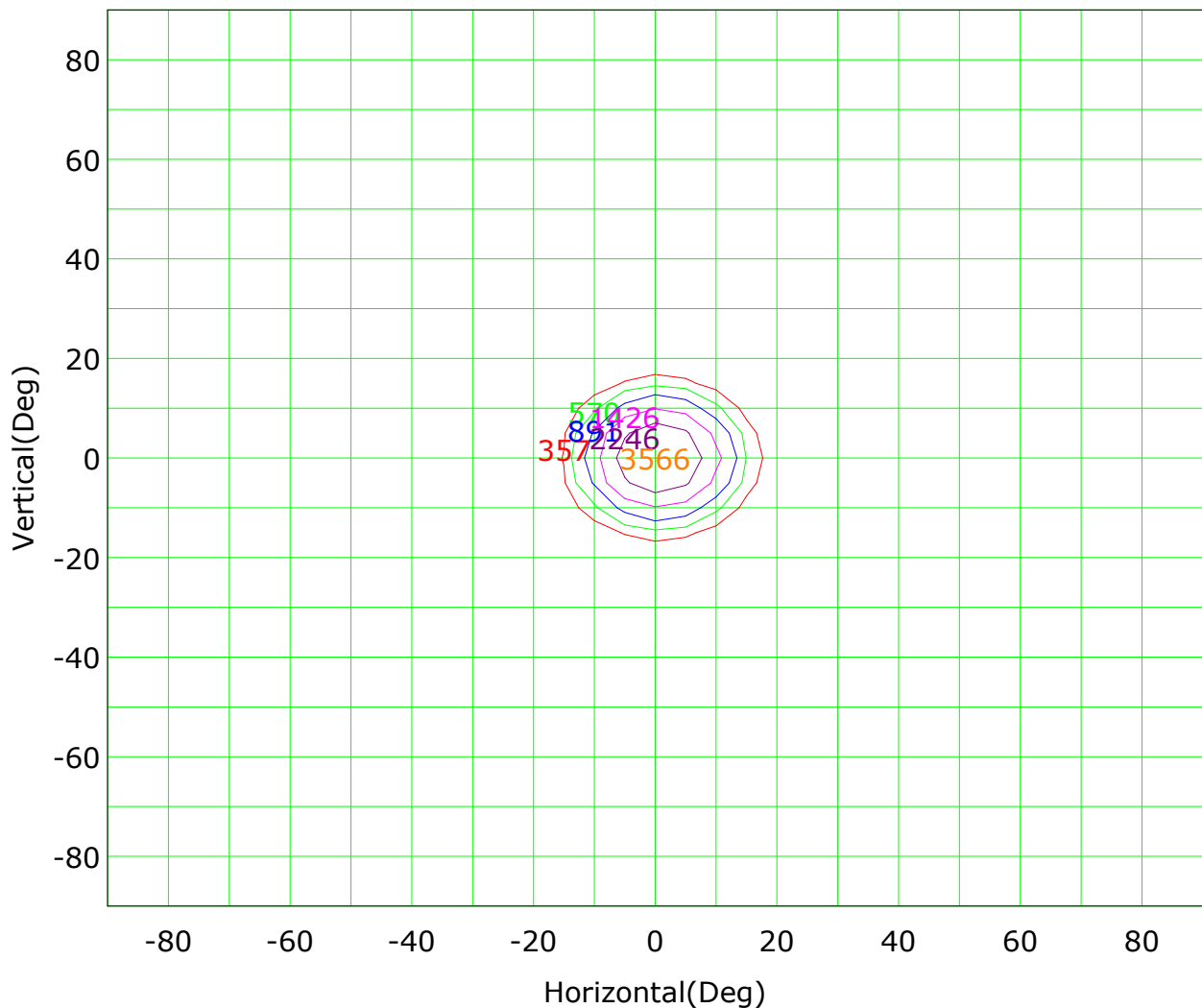
Luminous Intensity Distribution Curve(cd/klm)



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%): 3566 cd

(10%): 357 cd	(16%): 570 cd
(25%): 891 cd	(40%): 1426 cd
(63%): 2246 cd	(100%): 3566 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

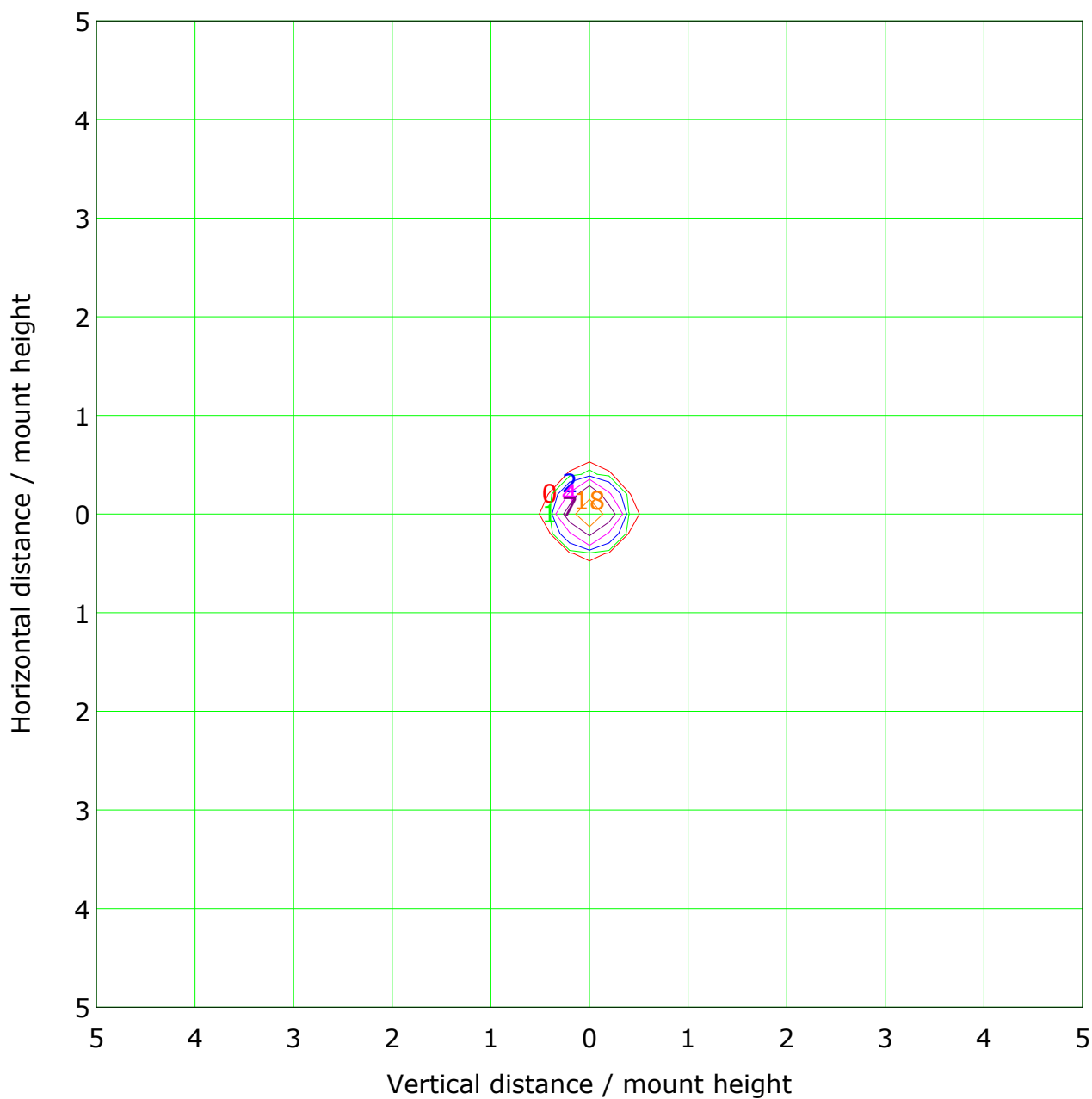
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 35.7 lx

— (1%): 0.4 lx	— (2%): 0.7 lx
— (5%): 1.8 lx	— (10%): 3.6 lx
— (20%): 7.1 lx	— (50%): 17.8 lx
— (100%): 35.7 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

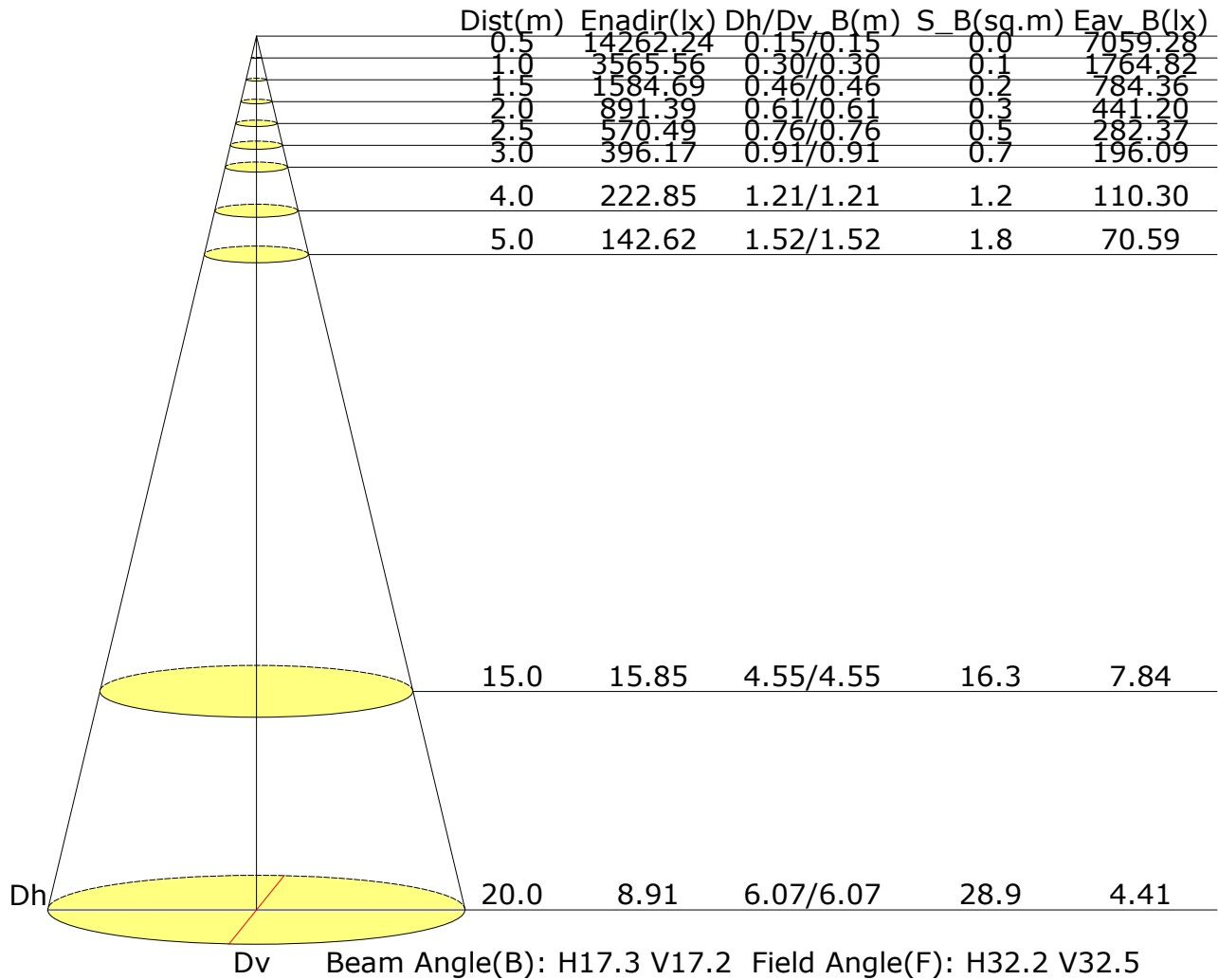
Test Device: CHL-6E

Distance: 2.905 m

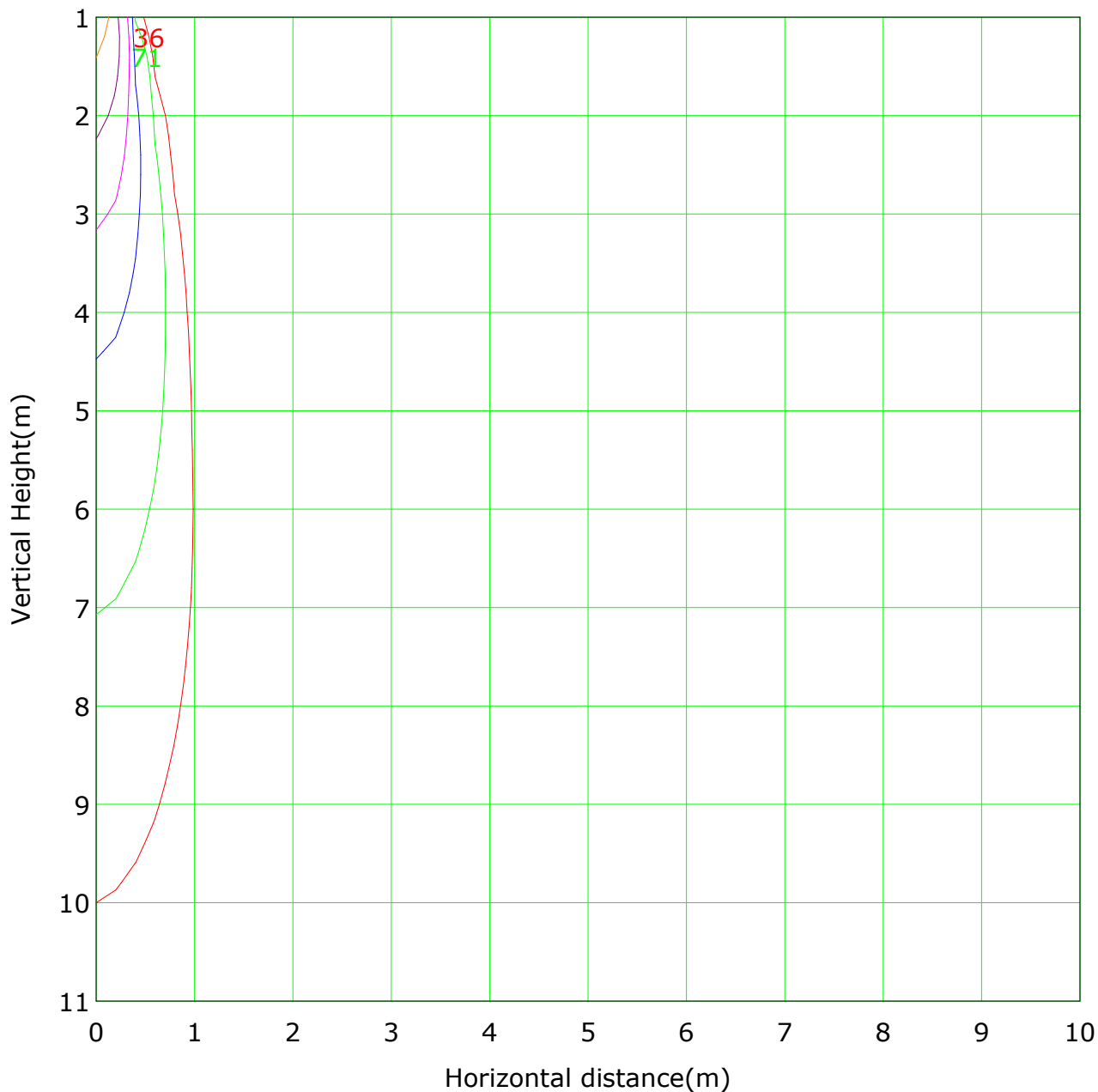
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



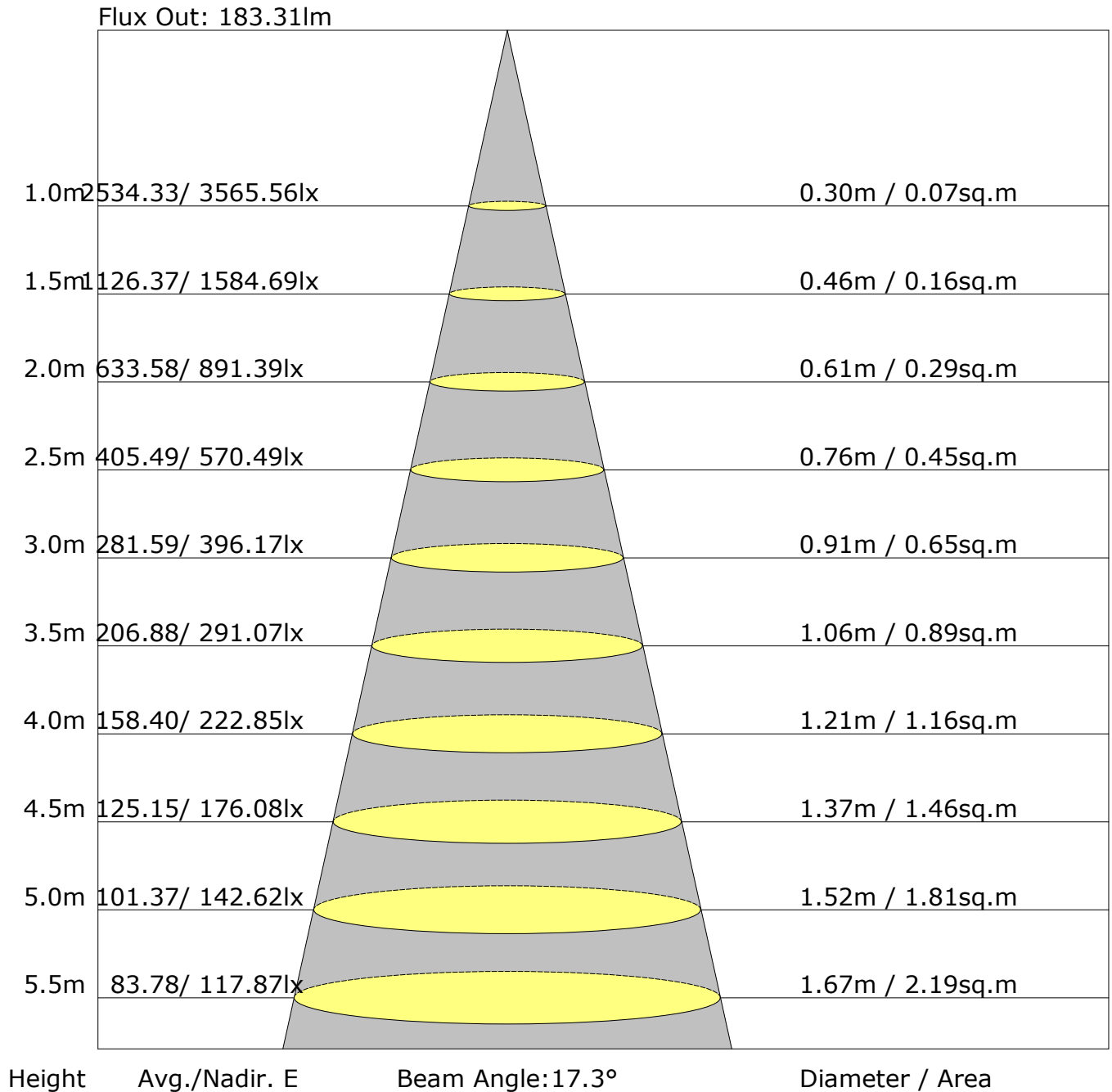
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 3565.6 lx
— (1%): 35.7 lx — (2%): 71.3 lx
— (5%): 178.3 lx — (10%): 356.6 lx
— (20%): 713.1 lx — (50%): 1782.8 lx
— (100%): 3565.6 lx

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	2.0	2.5	2.2	2.7	2.9	0.9	1.4	1.1	1.6	1.7
3H	2.9	3.3	3.1	3.5	3.8	1.4	1.9	1.7	2.1	2.3
4H	3.9	4.3	4.2	4.6	4.8	2.0	2.5	2.3	2.7	3.0
6H	5.5	5.9	5.9	6.2	6.5	2.9	3.3	3.3	3.6	3.9
8H	6.5	6.9	6.8	7.2	7.5	3.8	4.2	4.1	4.4	4.7
12H	7.7	8.1	8.0	8.4	8.7	4.9	5.3	5.3	5.6	5.9
X=4H Y=2H	2.1	2.6	2.4	2.8	3.1	1.1	1.6	1.4	1.8	2.1
3H	3.3	3.7	3.6	4.0	4.3	2.0	2.3	2.3	2.6	2.9
4H	4.7	5.0	5.1	5.4	5.7	2.9	3.3	3.3	3.6	3.9
6H	6.7	7.0	7.1	7.3	7.7	4.2	4.5	4.6	4.9	5.2
8H	7.8	8.1	8.3	8.5	8.9	5.3	5.5	5.7	5.9	6.3
12H	9.2	9.4	9.6	9.9	10.3	6.6	6.9	7.1	7.3	7.7
X=8H Y=4H	5.1	5.4	5.5	5.8	6.2	3.6	3.9	4.0	4.3	4.7
6H	7.4	7.6	7.8	8.0	8.5	5.3	5.5	5.7	5.9	6.4
8H	8.9	9.1	9.3	9.5	10.0	6.7	6.9	7.2	7.3	7.8
12H	10.4	10.6	10.9	11.1	11.6	8.2	8.4	8.7	8.9	9.4
X=12H Y=4H	5.2	5.4	5.6	5.9	6.3	3.9	4.1	4.3	4.5	5.0
6H	7.6	7.8	8.1	8.3	8.7	5.8	6.0	6.2	6.4	6.9
8H	9.2	9.4	9.7	9.9	10.4	7.4	7.5	7.8	8.0	8.5
Variations with the observer position at spacings:										
S=1.0H	+0.5/-0.6					+0.6/-0.7				
S=1.5H	+0.8/-1.5					+1.2/-1.6				
S=2.0H	+0.9/-1.9					+1.7/-1.9				

Calculate in accordance with CIE Pub.117. The table is revised with 388lm ($8\log(F/F_0) = -3.3$).

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FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	181	46.6
	FL (0°-30°)	179	46.1
	FM (30°-60°)	2	0.4
	FH (60°-80°)	0	0.1
	FVH (80°-90°)	0	0.0
	BACK LIGHT	207	53.4
	BL (0°-30°)	205	52.9
	BM (30°-60°)	1	0.4
	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
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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	3547.3	3.4	3.4	0.87	0.87
1.0-2.0	3477.0	10.0	13.4	2.57	3.45
2.0-3.0	3346.1	16.0	29.4	4.12	7.57
3.0-4.0	3166.3	21.2	50.6	5.46	13.03
4.0-5.0	2945.9	25.3	75.9	6.53	19.56
5.0-6.0	2693.6	28.3	104.2	7.29	26.86
6.0-7.0	2416.8	30.0	134.2	7.73	34.59
7.0-8.0	2122.6	30.4	164.6	7.83	42.41
8.0-9.0	1820.7	29.5	194.1	7.60	50.02
9.0-10.0	1522.2	27.6	221.7	7.10	57.12
10.0-11.0	1245.7	24.9	246.6	6.41	63.53
11.0-12.0	1009.7	22.1	268.7	5.69	69.22
12.0-13.0	815.8	19.4	288.0	4.99	74.21
13.0-14.0	657.7	16.8	304.9	4.34	78.54
14.0-15.0	528.8	14.5	319.4	3.74	82.28
15.0-16.0	422.3	12.4	331.7	3.19	85.47
16.0-17.0	335.2	10.4	342.2	2.69	88.16
17.0-18.0	265.0	8.7	350.9	2.25	90.42
18.0-19.0	205.1	7.1	358.1	1.84	92.25
19.0-20.0	159.8	5.8	363.9	1.51	93.76
20.0-21.0	130.5	5.0	368.9	1.29	95.05
21.0-22.0	102.0	4.1	373.0	1.06	96.11
22.0-23.0	76.9	3.2	376.3	0.83	96.94
23.0-24.0	58.5	2.6	378.8	0.66	97.60
24.0-25.0	41.3	1.9	380.7	0.48	98.08
25.0-26.0	27.3	1.3	382.0	0.33	98.42
26.0-27.0	16.8	0.8	382.8	0.21	98.63
27.0-28.0	15.9	0.8	383.6	0.21	98.84
28.0-29.0	11.6	0.6	384.2	0.16	98.99
29.0-30.0	3.1	0.2	384.4	0.04	99.04
30.0-31.0	2.6	0.1	384.5	0.04	99.07
31.0-32.0	4.1	0.2	384.8	0.06	99.13
32.0-33.0	3.7	0.2	385.0	0.06	99.19
33.0-34.0	1.4	0.1	385.1	0.02	99.21
34.0-35.0	1.5	0.1	385.2	0.02	99.24
35.0-36.0	2.4	0.2	385.3	0.04	99.28

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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	2.8	0.2	385.5	0.05	99.32
37.0-38.0	2.4	0.2	385.7	0.04	99.36
38.0-39.0	2.2	0.1	385.8	0.04	99.40
39.0-40.0	1.9	0.1	385.9	0.03	99.44
40.0-41.0	1.8	0.1	386.1	0.03	99.47
41.0-42.0	1.8	0.1	386.2	0.03	99.50
42.0-43.0	1.6	0.1	386.3	0.03	99.53
43.0-44.0	1.4	0.1	386.4	0.03	99.56
44.0-45.0	1.4	0.1	386.5	0.03	99.59
45.0-46.0	1.3	0.1	386.6	0.03	99.61
46.0-47.0	1.2	0.1	386.7	0.02	99.64
47.0-48.0	1.0	0.1	386.8	0.02	99.66
48.0-49.0	0.9	0.1	386.9	0.02	99.68
49.0-50.0	0.8	0.1	386.9	0.02	99.70
50.0-51.0	0.7	0.1	387.0	0.02	99.71
51.0-52.0	0.6	0.1	387.1	0.01	99.73
52.0-53.0	0.6	0.1	387.1	0.01	99.74
53.0-54.0	0.5	0.0	387.2	0.01	99.75
54.0-55.0	0.5	0.0	387.2	0.01	99.76
55.0-56.0	0.6	0.1	387.3	0.01	99.78
56.0-57.0	0.6	0.1	387.3	0.01	99.79
57.0-58.0	0.4	0.0	387.4	0.01	99.80
58.0-59.0	0.3	0.0	387.4	0.01	99.81
59.0-60.0	0.3	0.0	387.4	0.01	99.82
60.0-61.0	0.3	0.0	387.4	0.01	99.82
61.0-62.0	0.3	0.0	387.5	0.01	99.83
62.0-63.0	0.3	0.0	387.5	0.01	99.84
63.0-64.0	0.3	0.0	387.5	0.01	99.84
64.0-65.0	0.2	0.0	387.5	0.01	99.85
65.0-66.0	0.2	0.0	387.6	0.01	99.86
66.0-67.0	0.3	0.0	387.6	0.01	99.86
67.0-68.0	0.3	0.0	387.6	0.01	99.87
68.0-69.0	0.2	0.0	387.7	0.01	99.88
69.0-70.0	0.2	0.0	387.7	0.01	99.88
70.0-71.0	0.2	0.0	387.7	0.01	99.89
71.0-72.0	0.2	0.0	387.7	0.01	99.89

C Plane (°):0.0-180.0: 180.0
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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	3565.6	3565.6								
G1.0	3498.0	3560.2								
G2.0	3363.9	3485.8								
G3.0	3174.8	3359.7								
G4.0	2936.7	3193.8								
G5.0	2654.3	2998.6								
G6.0	2349.4	2771.9								
G7.0	2032.7	2513.1								
G8.0	1714.8	2230.0								
G9.0	1409.9	1927.9								
G10.0	1131.9	1619.0								
G11.0	897.0	1335.0								
G12.0	717.7	1089.1								
G13.0	575.8	880.6								
G14.0	463.7	710.8								
G15.0	370.7	569.7								
G16.0	295.5	453.4								
G17.0	232.6	359.3								
G18.0	184.5	283.9								
G19.0	129.9	222.2								
G20.0	111.6	175.4								
G21.0	97.2	138.0								
G22.0	65.3	107.4								
G23.0	53.0	81.9								
G24.0	38.0	60.8								
G25.0	24.0	42.4								
G26.0	15.7	27.3								
G27.0	8.0	16.4								
G28.0	29.2	10.1								
G29.0	0.0	7.0								
G30.0	0.0	5.6								
G31.0	0.0	4.6								
G32.0	8.0	3.8								
G33.0	0.0	3.2								
G34.0	0.0	2.5								
G35.0	1.5	2.1								
G36.0	4.1	2.1								

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Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	3.1	1.8								
G38.0	2.9	1.7								
G39.0	2.5	1.5								
G40.0	2.4	1.3								
G41.0	2.2	1.4								
G42.0	2.2	1.1								
G43.0	2.1	0.8								
G44.0	1.8	1.0								
G45.0	1.8	1.0								
G46.0	1.8	0.7								
G47.0	1.5	0.7								
G48.0	1.4	0.4								
G49.0	1.3	0.4								
G50.0	1.1	0.4								
G51.0	1.1	0.1								
G52.0	1.0	0.3								
G53.0	1.0	0.3								
G54.0	0.7	0.1								
G55.0	1.0	0.1								
G56.0	1.1	0.3								
G57.0	0.7	0.1								
G58.0	0.6	0.1								
G59.0	0.4	0.1								
G60.0	0.4	0.3								
G61.0	0.4	0.1								
G62.0	0.4	0.1								
G63.0	0.4	0.3								
G64.0	0.4	0.0								
G65.0	0.4	0.0								
G66.0	0.4	0.1								
G67.0	0.4	0.3								
G68.0	0.4	0.0								
G69.0	0.3	0.1								
G70.0	0.4	0.0								
G71.0	0.4	0.0								
G72.0	0.4	0.0								
G73.0	0.4	0.0								

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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]

Inspector: