

Report No.:

Test Time: 2025-09-20 16:39

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 24D

Luminous Width (mm): -20

Current: 0.093 A

Power Factor: 0.481

Luminous Length (mm): -215

Voltage: 228.7 V

Power: 10.30 W

Photometric Results

CIE Class: Direct

Measurement Flux: 999 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H28.1

Vertical Diffuse Angle(50%): V28.1

Luminaire Efficacy Rating (LER): 97.04

Max. Intensity: 3508.64 cd

S/MH(C0/C180): 0.47

Total Rated Lamp Lumens: 999.0 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 3487.66 cd

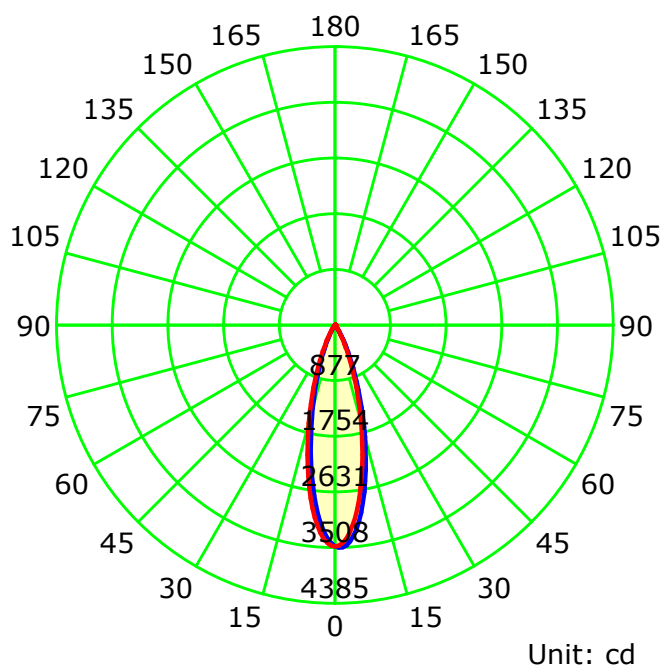
Pos of Max. Intensity: H0 V1

S/MH(C90/C270): 0.47

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

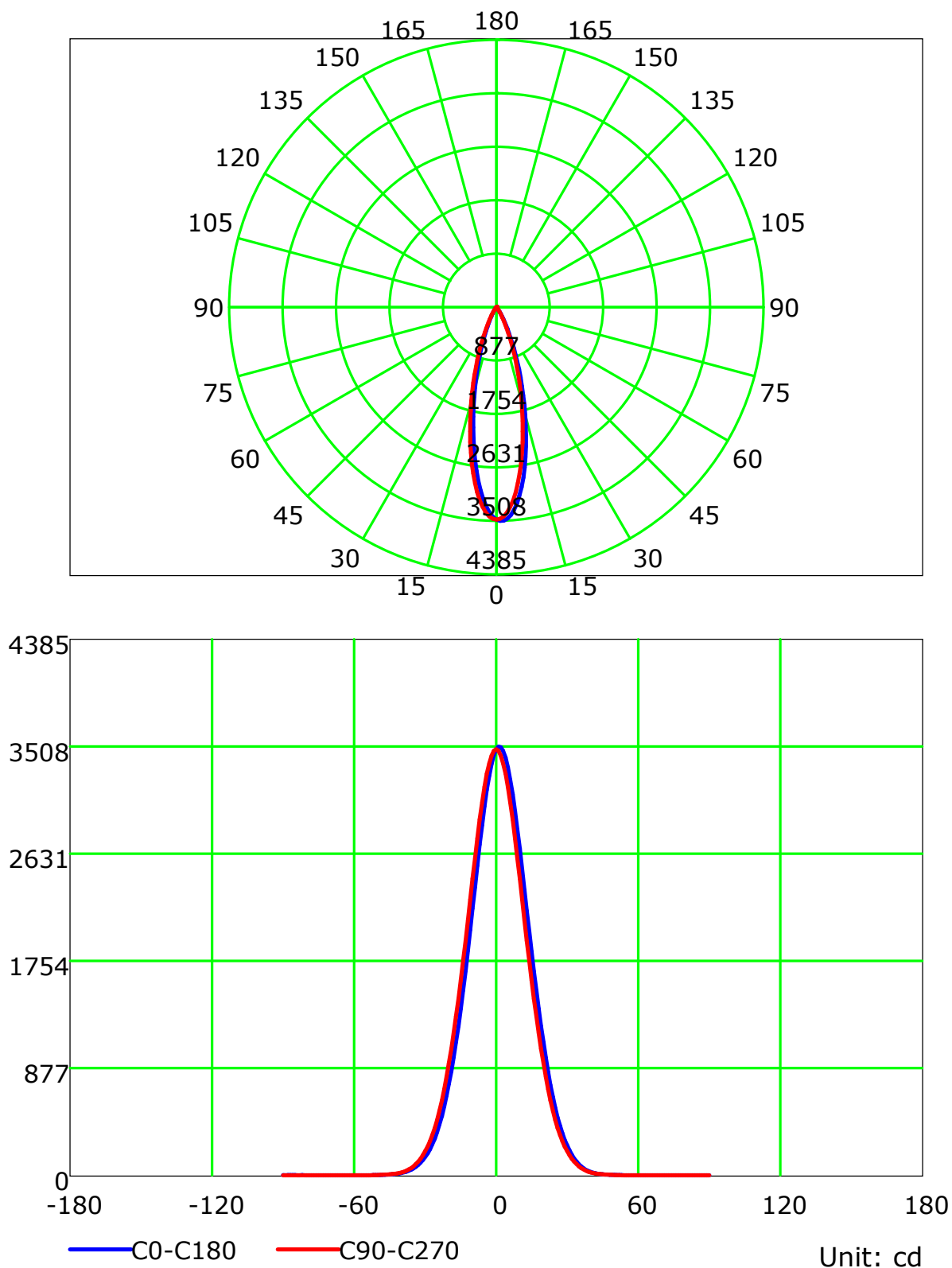
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

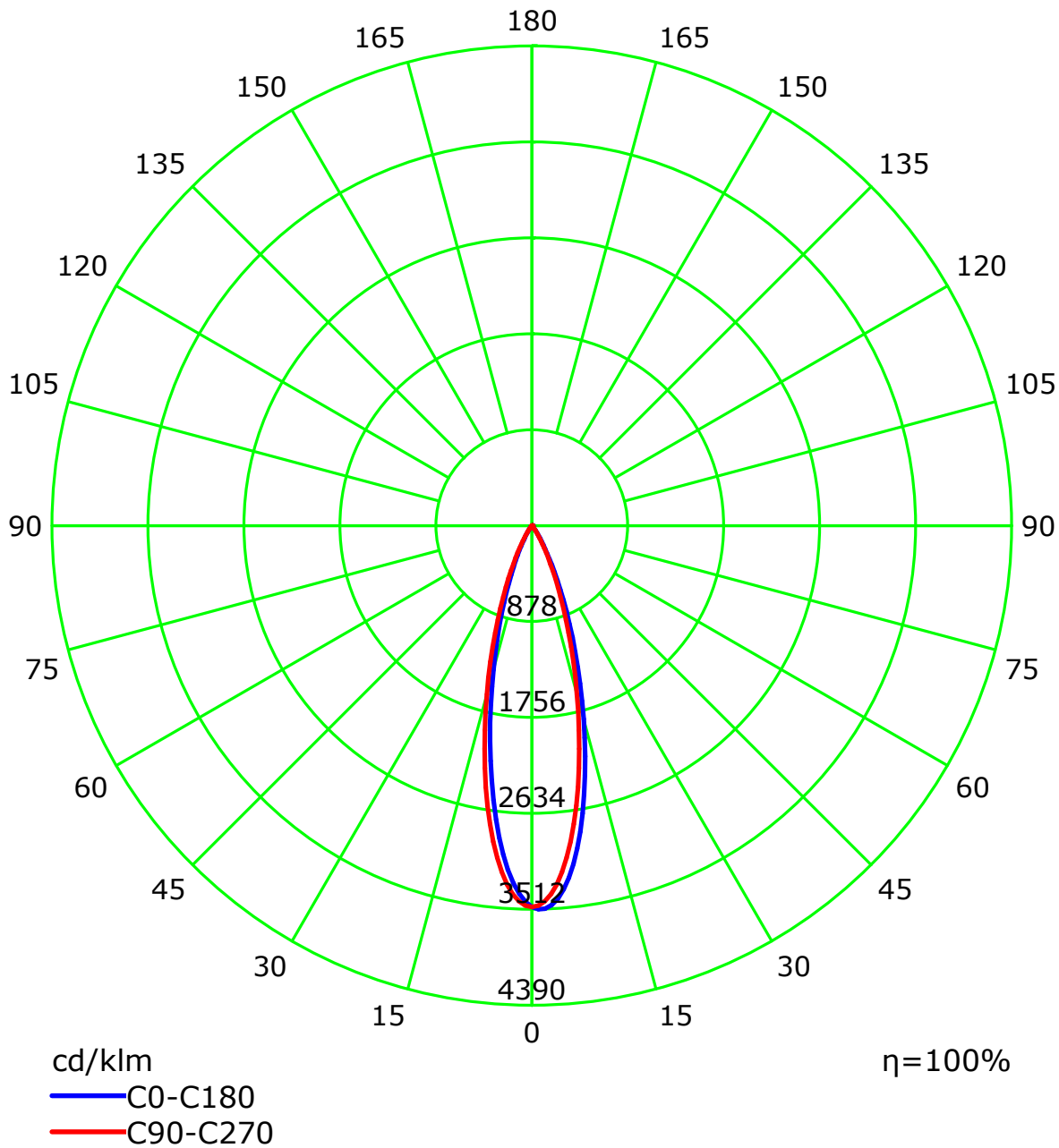
Luminous Intensity Distribution Curve



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:

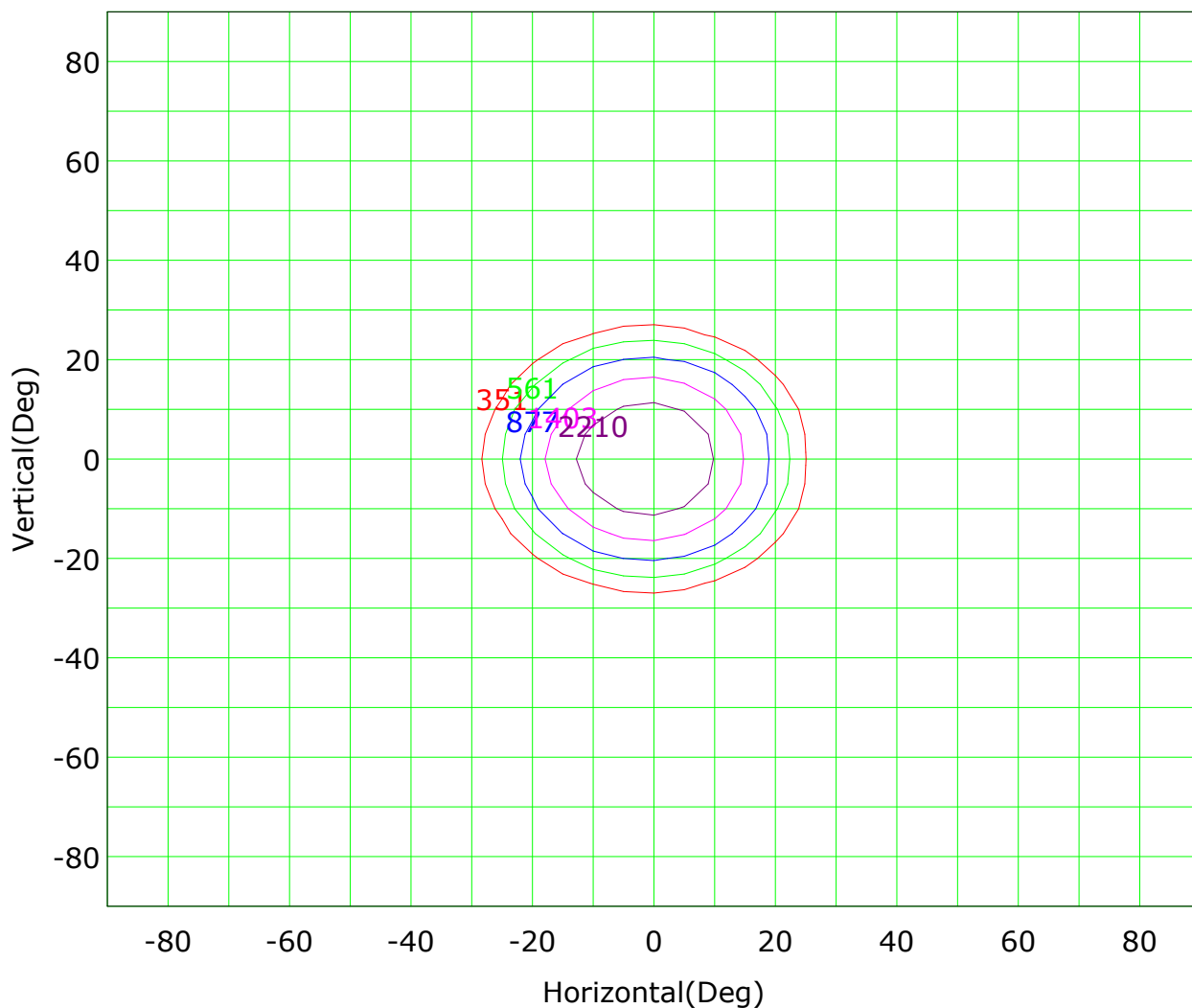
Luminous Intensity Distribution Curve(cd/klm)



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%): 3509 cd

(10%): 351 cd	(16%): 561 cd
(25%): 877 cd	(40%): 1403 cd
(63%): 2210 cd	(100%): 3509 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

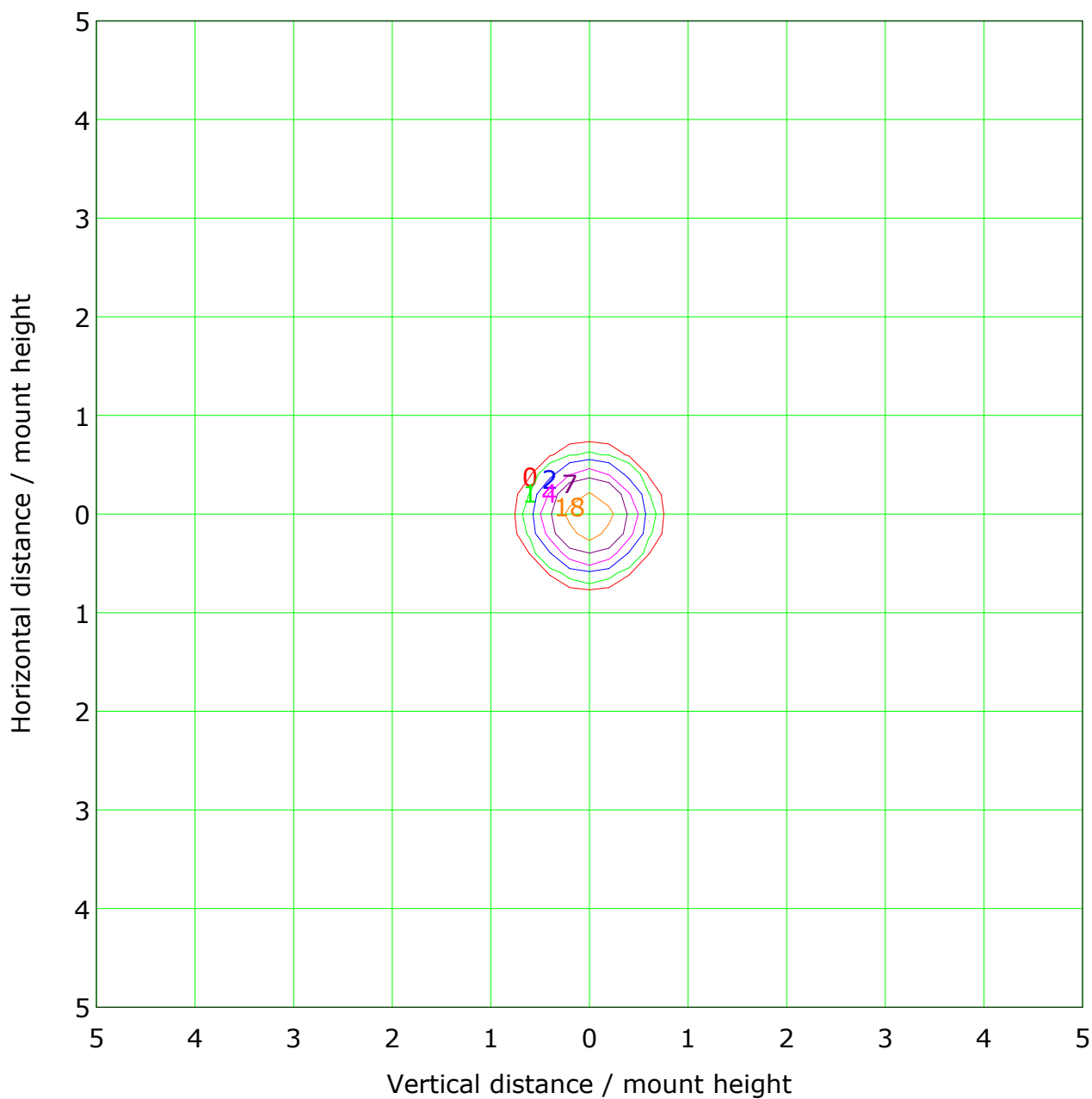
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 35.1 lx

— (1%): 0.4 lx	— (2%): 0.7 lx
— (5%): 1.8 lx	— (10%): 3.5 lx
— (20%): 7.0 lx	— (50%): 17.5 lx
— (100%): 35.1 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

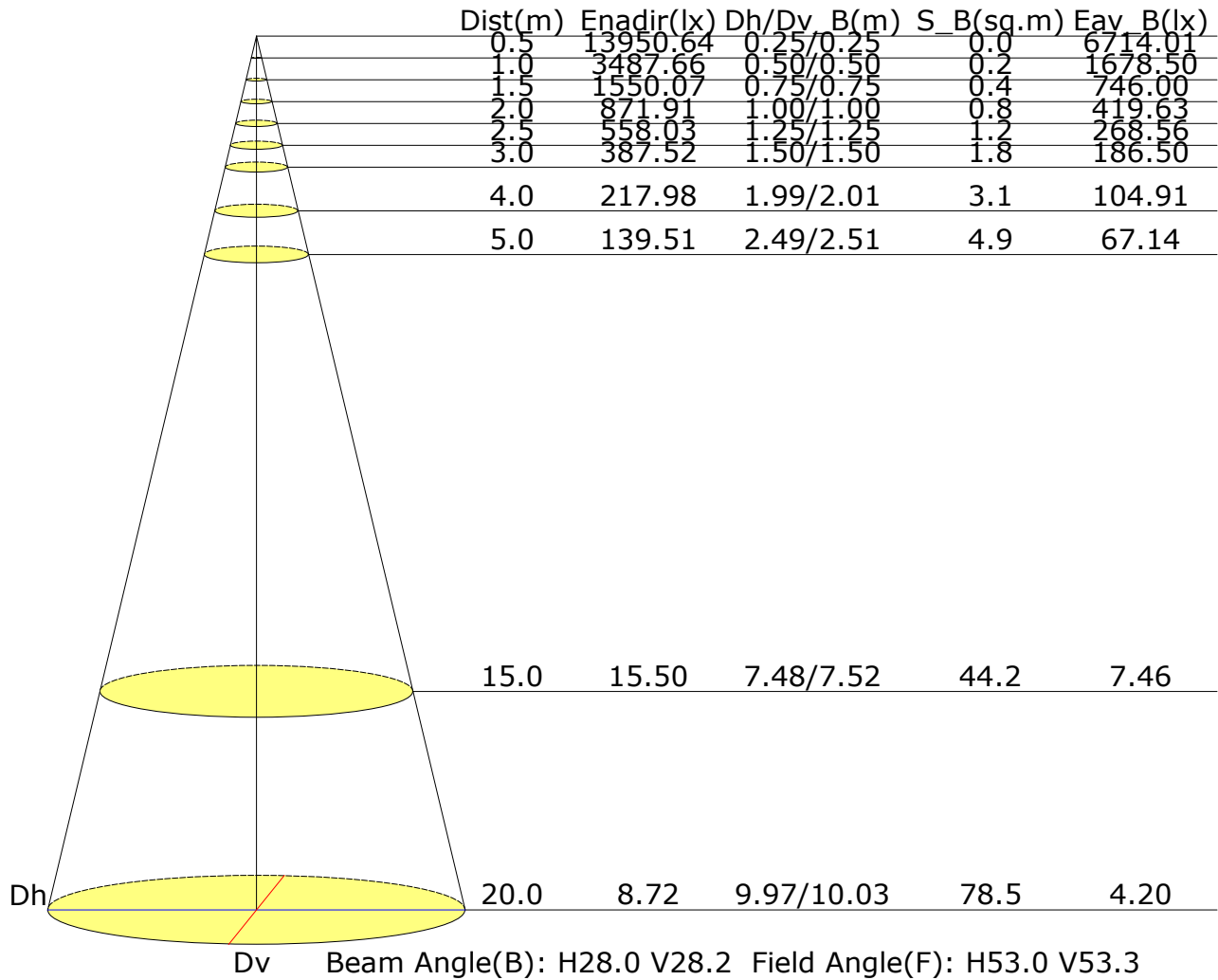
Test Device: CHL-6E

Distance: 2.905 m

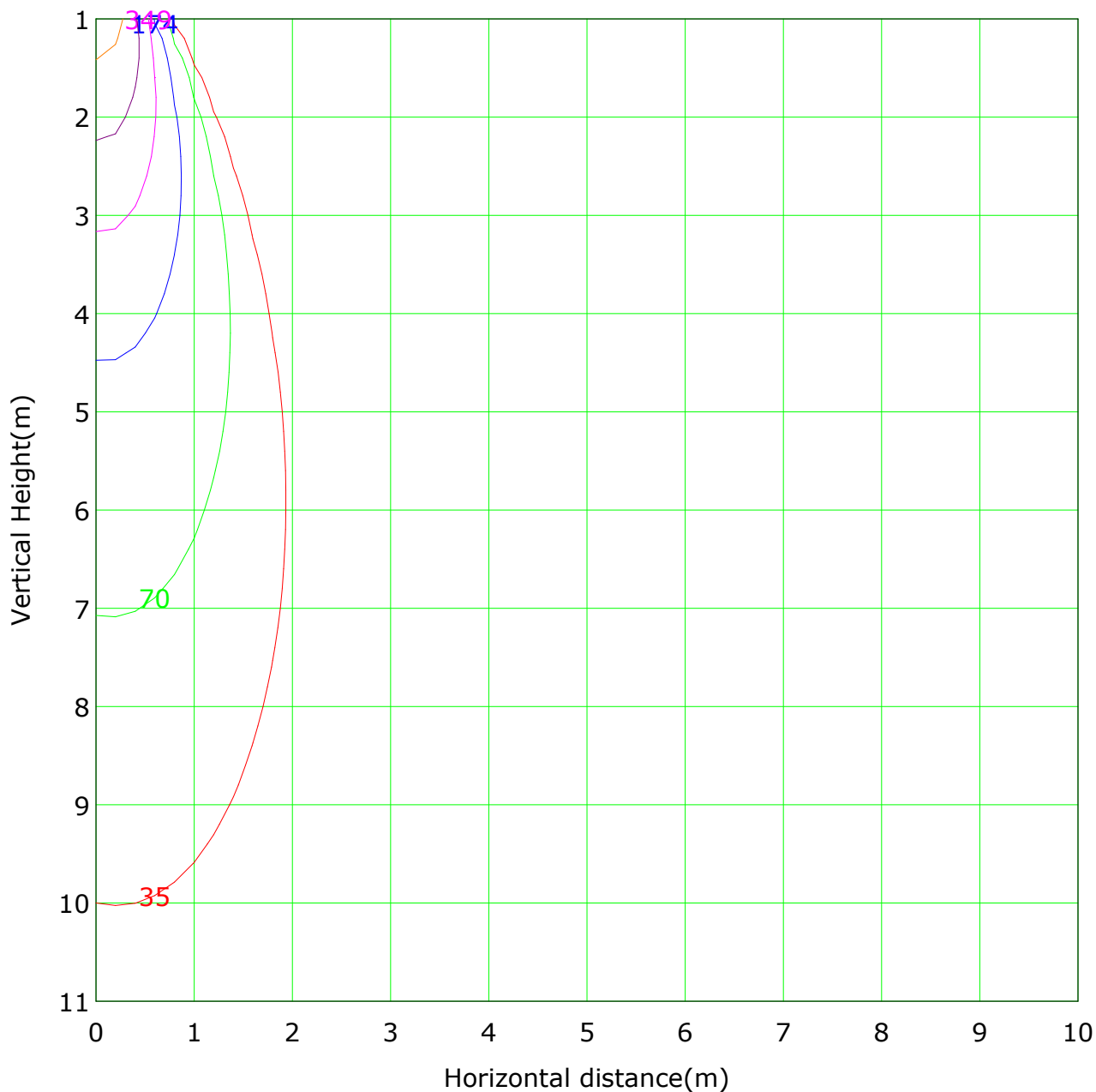
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



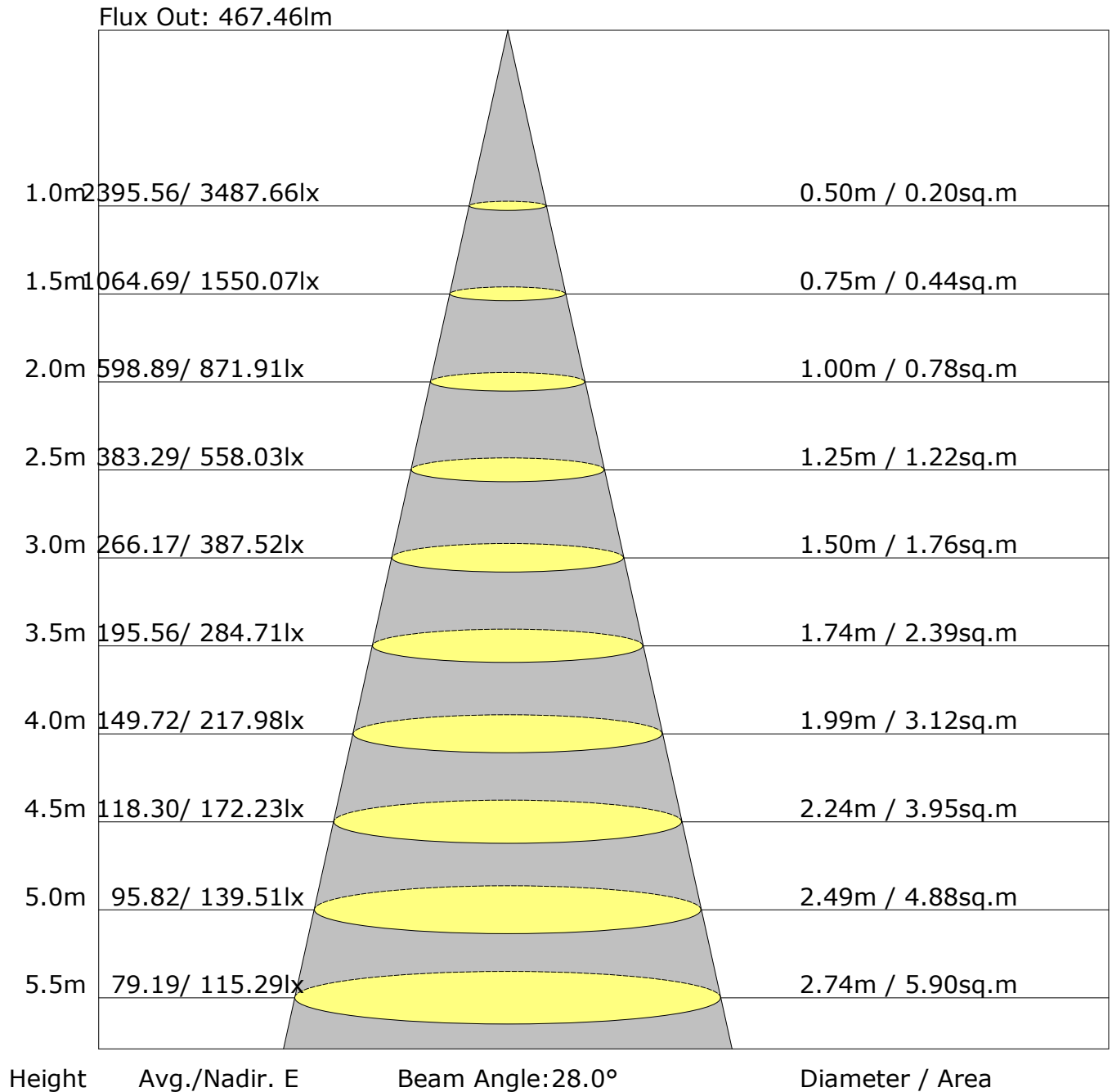
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 3487.7 lx
— (1%): 34.9 lx — (2%): 69.8 lx
— (5%): 174.4 lx — (10%): 348.8 lx
— (20%): 697.5 lx — (50%): 1743.8 lx
— (100%): 3487.7 lx

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:

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	11.3	12.0	11.6	12.2	12.4	10.4	11.1	10.7	11.3	11.4
3H	11.3	11.8	11.5	12.1	12.3	10.3	10.9	10.6	11.2	11.4
4H	11.2	11.8	11.5	12.1	12.3	10.3	10.9	10.6	11.2	11.4
6H	11.3	11.8	11.6	12.1	12.4	10.5	11.0	10.8	11.3	11.5
8H	11.4	11.9	11.7	12.2	12.5	10.7	11.2	11.0	11.5	11.8
12H	11.6	12.1	12.0	12.4	12.7	11.0	11.5	11.3	11.8	12.1
X=4H Y=2H	11.1	11.7	11.4	12.0	12.2	10.2	10.8	10.5	11.0	11.3
3H	11.1	11.6	11.4	11.9	12.2	10.2	10.6	10.5	10.9	11.3
4H	11.1	11.5	11.5	11.9	12.2	10.2	10.7	10.6	11.0	11.3
6H	11.2	11.6	11.6	12.0	12.4	10.5	10.9	10.9	11.2	11.6
8H	11.5	11.8	11.9	12.2	12.6	10.8	11.2	11.3	11.6	12.0
12H	11.8	12.2	12.3	12.6	13.0	11.4	11.7	11.8	12.1	12.5
X=8H Y=4H	11.0	11.4	11.5	11.8	12.2	10.2	10.5	10.6	10.9	11.3
6H	11.3	11.6	11.7	12.0	12.5	10.6	10.9	11.1	11.3	11.8
8H	11.7	12.0	12.2	12.4	12.9	11.2	11.4	11.6	11.9	12.3
12H	12.3	12.5	12.8	13.0	13.5	12.0	12.2	12.5	12.7	13.2
X=12H Y=4H	11.0	11.3	11.5	11.7	12.2	10.2	10.5	10.6	10.9	11.3
6H	11.3	11.6	11.8	12.0	12.5	10.7	10.9	11.2	11.4	11.9
8H	11.8	12.1	12.3	12.5	13.0	11.3	11.6	11.8	12.0	12.5
Variations with the observer position at spacings:										
S=1.0H	+5.6/-5.7					+5.3/-4.8				
S=1.5H	+8.4/-6.7					+8.0/-5.8				
S=2.0H	+10.3/-7.0					+9.9/-6.1				

Calculate in accordance with CIE Pub.117. The table is revised with 999Im ($8\log(F/F_0) = -0.0$).

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:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	534	53.5
	FL (0°-30°)	498	49.8
	FM (30°-60°)	34	3.4
	FH (60°-80°)	1	0.1
	FVH (80°-90°)	1	0.1
	BACK LIGHT	465	46.5
	BL (0°-30°)	435	43.5
	BM (30°-60°)	28	2.8
	BH (60°-80°)	1	0.1
	BVH (80°-90°)	1	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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	3481.2	3.3	3.3	0.33	0.33
1.0-2.0	3455.2	9.9	13.2	0.99	1.33
2.0-3.0	3404.1	16.3	29.5	1.63	2.96
3.0-4.0	3329.4	22.3	51.8	2.23	5.19
4.0-5.0	3232.4	27.8	79.6	2.78	7.97
5.0-6.0	3115.8	32.7	112.4	3.28	11.25
6.0-7.0	2982.5	37.0	149.4	3.71	14.96
7.0-8.0	2834.5	40.6	190.0	4.06	19.02
8.0-9.0	2676.1	43.4	233.4	4.34	23.36
9.0-10.0	2511.5	45.5	278.8	4.55	27.91
10.0-11.0	2342.4	46.8	325.6	4.69	32.59
11.0-12.0	2172.4	47.5	373.1	4.75	37.35
12.0-13.0	2003.6	47.6	420.7	4.76	42.11
13.0-14.0	1837.7	47.0	467.7	4.71	46.82
14.0-15.0	1676.8	46.0	513.8	4.61	51.43
15.0-16.0	1521.8	44.6	558.4	4.46	55.89
16.0-17.0	1373.4	42.8	601.1	4.28	60.17
17.0-18.0	1233.1	40.7	641.8	4.07	64.24
18.0-19.0	1101.4	38.3	680.1	3.84	68.08
19.0-20.0	977.9	35.8	715.9	3.58	71.66
20.0-21.0	863.1	33.1	749.1	3.32	74.98
21.0-22.0	756.9	30.4	779.5	3.05	78.03
22.0-23.0	659.3	27.7	807.1	2.77	80.80
23.0-24.0	570.8	25.0	832.1	2.50	83.29
24.0-25.0	491.5	22.4	854.5	2.24	85.53
25.0-26.0	420.8	19.9	874.3	1.99	87.52
26.0-27.0	358.7	17.6	891.9	1.76	89.28
27.0-28.0	304.8	15.4	907.3	1.54	90.82
28.0-29.0	257.7	13.5	920.8	1.35	92.17
29.0-30.0	217.0	11.7	932.5	1.17	93.35
30.0-31.0	182.0	10.1	942.6	1.01	94.36
31.0-32.0	151.5	8.7	951.3	0.87	95.23
32.0-33.0	125.0	7.4	958.7	0.74	95.97
33.0-34.0	102.4	6.2	964.9	0.62	96.59
34.0-35.0	83.4	5.2	970.1	0.52	97.10
35.0-36.0	67.4	4.3	974.4	0.43	97.53

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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	54.1	3.5	977.9	0.35	97.89
37.0-38.0	43.1	2.9	980.8	0.29	98.18
38.0-39.0	34.3	2.3	983.1	0.23	98.41
39.0-40.0	27.2	1.9	985.0	0.19	98.60
40.0-41.0	21.6	1.5	986.6	0.15	98.75
41.0-42.0	17.1	1.2	987.8	0.12	98.88
42.0-43.0	13.8	1.0	988.8	0.10	98.98
43.0-44.0	11.5	0.9	989.7	0.09	99.07
44.0-45.0	9.8	0.7	990.4	0.08	99.14
45.0-46.0	8.3	0.6	991.1	0.06	99.21
46.0-47.0	7.0	0.6	991.6	0.06	99.26
47.0-48.0	5.9	0.5	992.1	0.05	99.31
48.0-49.0	5.0	0.4	992.5	0.04	99.35
49.0-50.0	4.2	0.4	992.9	0.04	99.39
50.0-51.0	3.4	0.3	993.2	0.03	99.42
51.0-52.0	2.8	0.2	993.4	0.02	99.44
52.0-53.0	2.3	0.2	993.6	0.02	99.46
53.0-54.0	1.8	0.2	993.8	0.02	99.48
54.0-55.0	1.4	0.1	993.9	0.01	99.49
55.0-56.0	1.2	0.1	994.0	0.01	99.50
56.0-57.0	1.0	0.1	994.1	0.01	99.51
57.0-58.0	1.0	0.1	994.2	0.01	99.52
58.0-59.0	1.0	0.1	994.3	0.01	99.53
59.0-60.0	1.0	0.1	994.4	0.01	99.54
60.0-61.0	1.1	0.1	994.5	0.01	99.55
61.0-62.0	1.1	0.1	994.6	0.01	99.56
62.0-63.0	1.1	0.1	994.7	0.01	99.57
63.0-64.0	1.1	0.1	994.8	0.01	99.58
64.0-65.0	1.2	0.1	994.9	0.01	99.59
65.0-66.0	1.3	0.1	995.1	0.01	99.61
66.0-67.0	1.4	0.1	995.2	0.01	99.62
67.0-68.0	1.4	0.1	995.3	0.01	99.63
68.0-69.0	1.3	0.1	995.5	0.01	99.65
69.0-70.0	1.2	0.1	995.6	0.01	99.66
70.0-71.0	1.2	0.1	995.7	0.01	99.67
71.0-72.0	1.2	0.1	995.8	0.01	99.68

C Plane (°):0.0-180.0: 180.0
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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	3487.7	3487.7								
G1.0	3508.6	3440.7								
G2.0	3504.3	3367.1								
G3.0	3473.7	3271.3								
G4.0	3417.9	3154.7								
G5.0	3337.9	3019.0								
G6.0	3237.2	2869.0								
G7.0	3117.1	2706.8								
G8.0	2980.4	2533.6								
G9.0	2831.4	2359.1								
G10.0	2671.8	2183.7								
G11.0	2504.1	2010.0								
G12.0	2335.3	1840.0								
G13.0	2165.8	1673.1								
G14.0	1997.4	1514.4								
G15.0	1831.4	1364.1								
G16.0	1669.2	1222.6								
G17.0	1511.3	1090.4								
G18.0	1362.7	967.9								
G19.0	1221.7	853.2								
G20.0	1088.2	748.6								
G21.0	963.1	652.7								
G22.0	846.6	565.3								
G23.0	738.4	486.8								
G24.0	640.9	417.2								
G25.0	553.4	354.5								
G26.0	474.6	300.5								
G27.0	405.4	254.2								
G28.0	344.9	214.5								
G29.0	291.3	180.3								
G30.0	245.1	151.5								
G31.0	205.3	126.0								
G32.0	170.2	104.5								
G33.0	139.6	85.9								
G34.0	113.8	70.5								
G35.0	91.6	57.8								
G36.0	73.4	47.0								

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Distance: 2.905 m
Humidity:
Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	58.0	38.0								
G38.0	45.6	30.9								
G39.0	35.8	25.0								
G40.0	28.0	20.1								
G41.0	22.0	16.2								
G42.0	17.1	13.3								
G43.0	13.8	11.2								
G44.0	11.8	9.4								
G45.0	9.9	8.0								
G46.0	8.3	6.8								
G47.0	7.1	5.7								
G48.0	6.2	4.8								
G49.0	5.3	3.8								
G50.0	4.5	3.2								
G51.0	3.5	2.5								
G52.0	3.1	2.1								
G53.0	2.5	1.5								
G54.0	1.8	1.1								
G55.0	1.5	1.0								
G56.0	1.3	0.8								
G57.0	1.1	1.0								
G58.0	1.1	1.0								
G59.0	1.1	1.0								
G60.0	1.1	1.0								
G61.0	1.1	1.1								
G62.0	1.1	1.1								
G63.0	1.1	1.1								
G64.0	1.1	1.1								
G65.0	1.1	1.3								
G66.0	1.4	1.3								
G67.0	1.7	1.4								
G68.0	1.4	1.1								
G69.0	1.4	1.1								
G70.0	1.1	1.3								
G71.0	1.1	1.3								
G72.0	1.1	1.3								
G73.0	1.3	1.3								

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

Unit: cd

[illegible]

Inspector: