

Report No.:

Test Time: 2025-09-16 15:09

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 24D

Luminous Width (mm): -14

Current: 0.088 A

Power Factor: 0.536

Luminous Length (mm): -190

Voltage: 230.6 V

Power: 10.90 W

Photometric Results

CIE Class: Direct

Measurement Flux: 959.1 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H26.7

Vertical Diffuse Angle(50%): V26.7

Luminaire Efficacy Rating (LER): 88.04

Max. Intensity: 4940.34 cd

S/MH(C0/C180): 0.46

Total Rated Lamp Lumens: 959.1 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 4934.72 cd

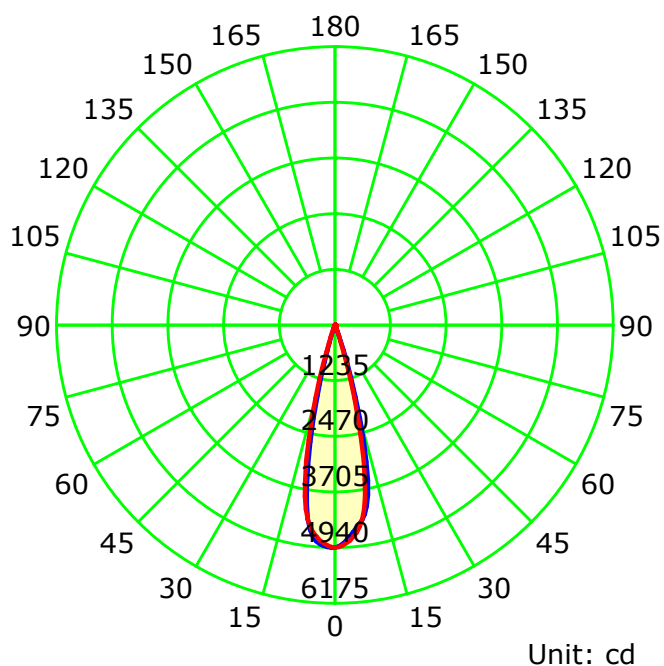
Pos of Max. Intensity: H180 V1

S/MH(C90/C270): 0.46

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

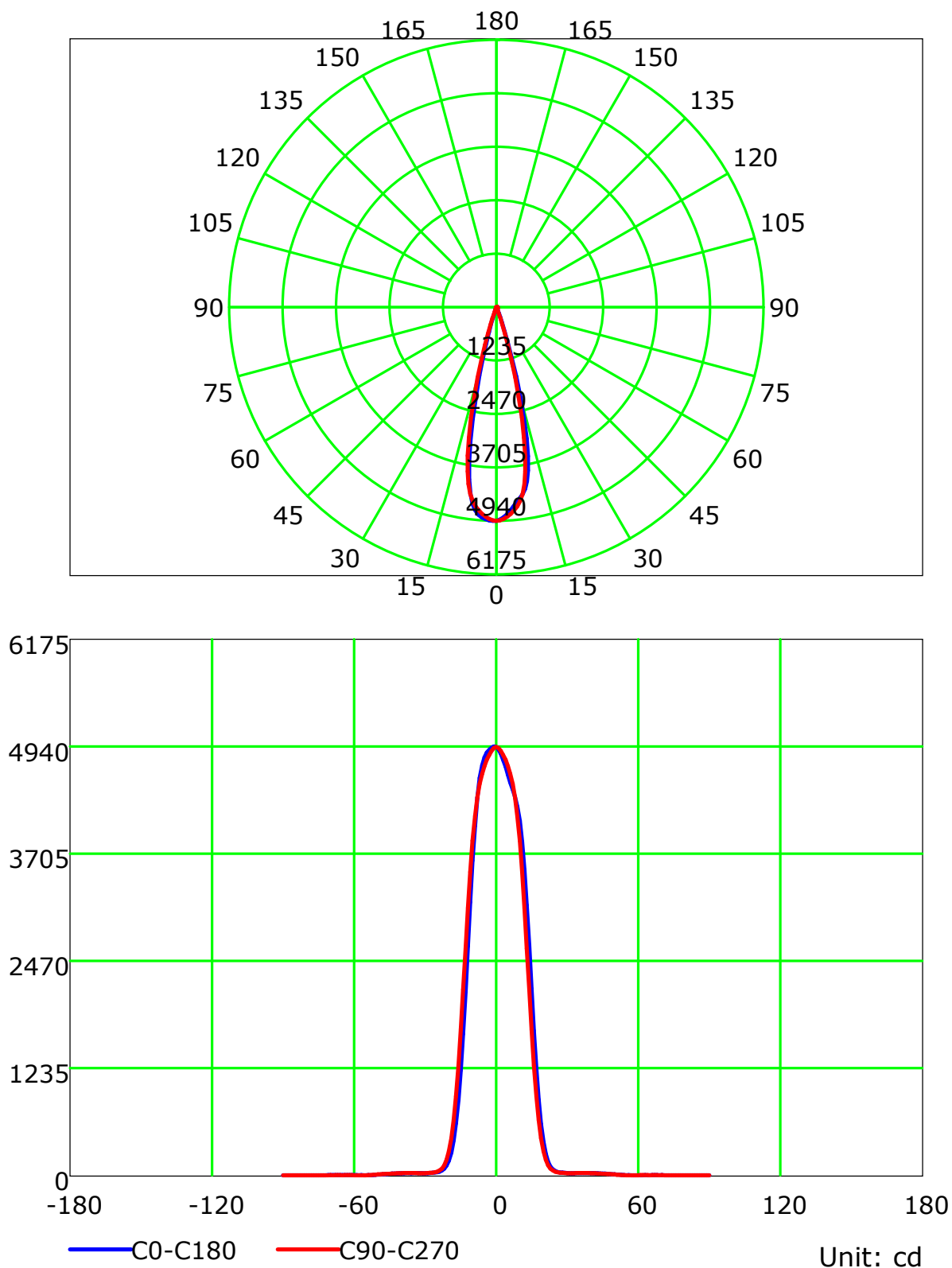
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

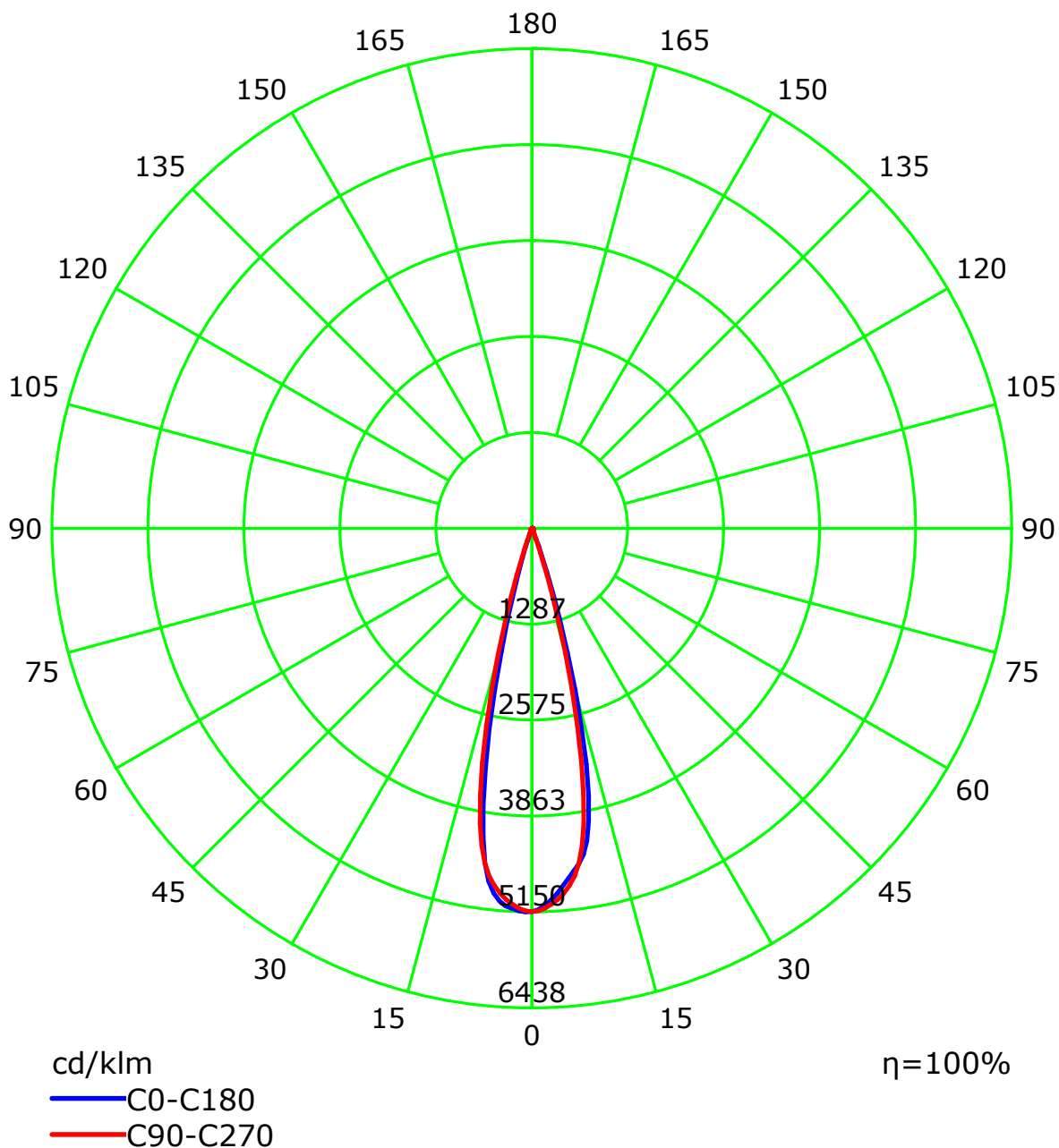
Luminous Intensity Distribution Curve



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:

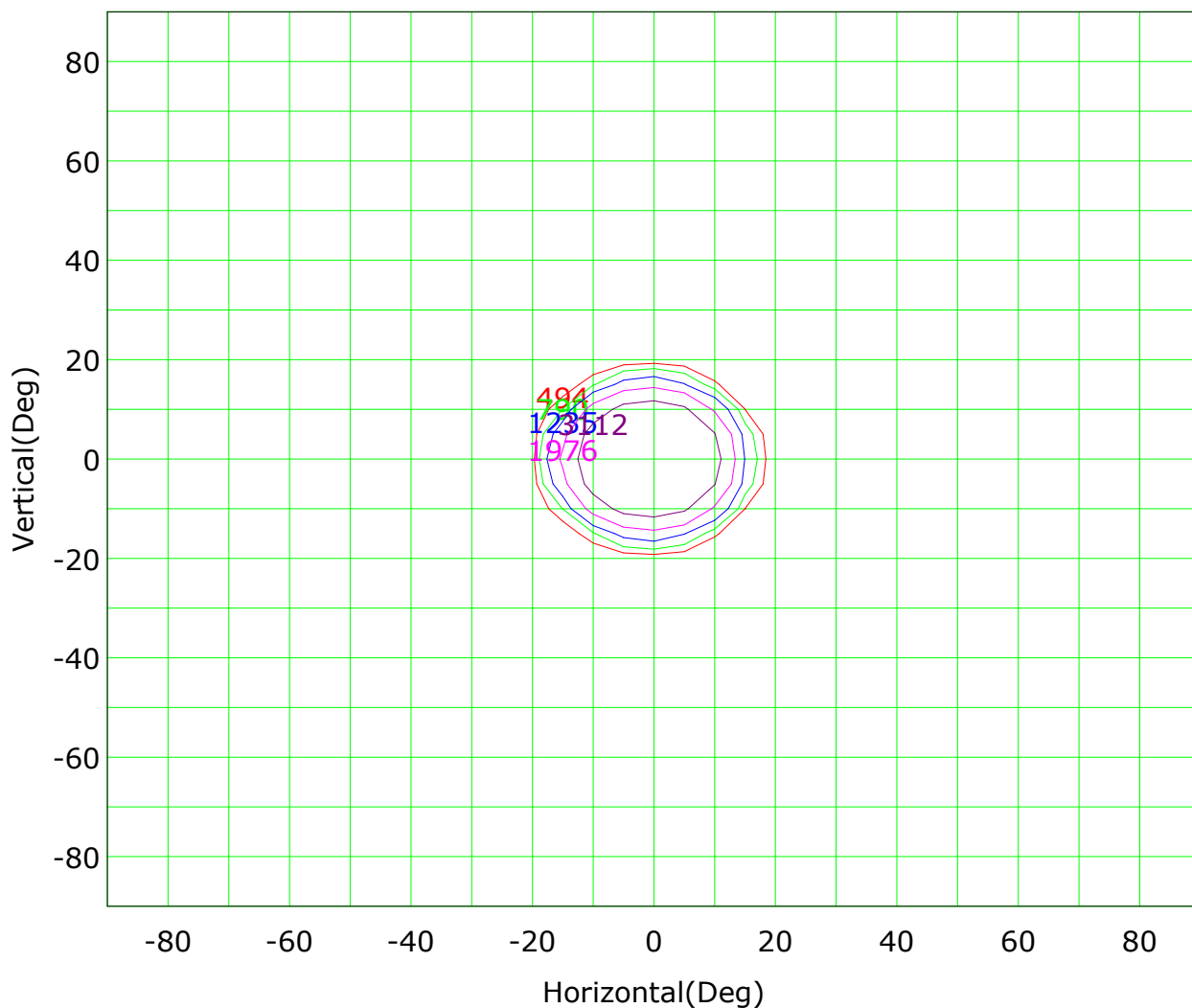
Luminous Intensity Distribution Curve(cd/klm)



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%): 4940 cd

(10%): 494 cd	(16%): 790 cd
(25%): 1235 cd	(40%): 1976 cd
(63%): 3112 cd	(100%): 4940 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

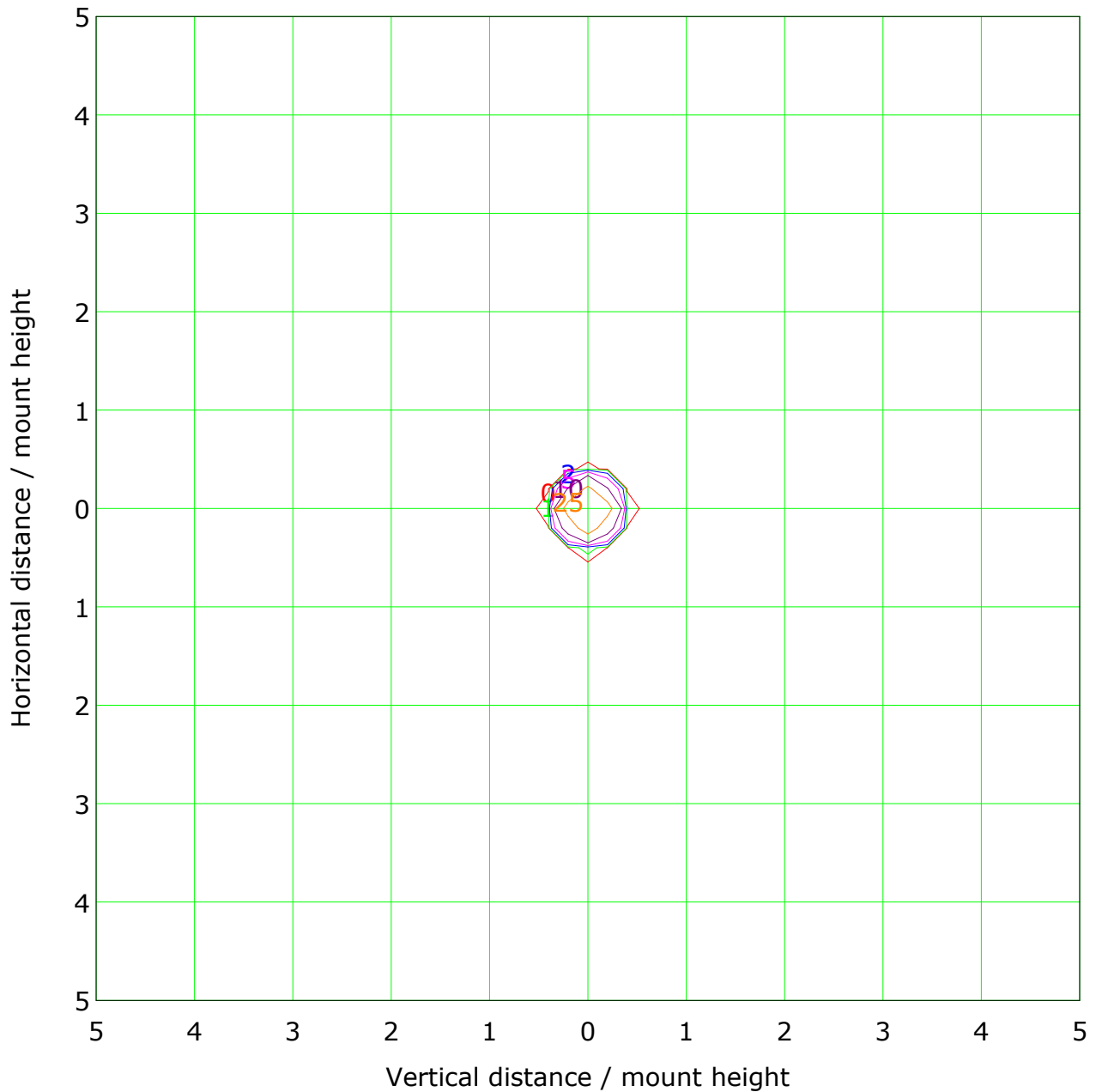
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 49.4 lx

(1%): 0.5 lx	(2%): 1.0 lx
(5%): 2.5 lx	(10%): 4.9 lx
(20%): 9.9 lx	(50%): 24.7 lx
(100%): 49.4 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

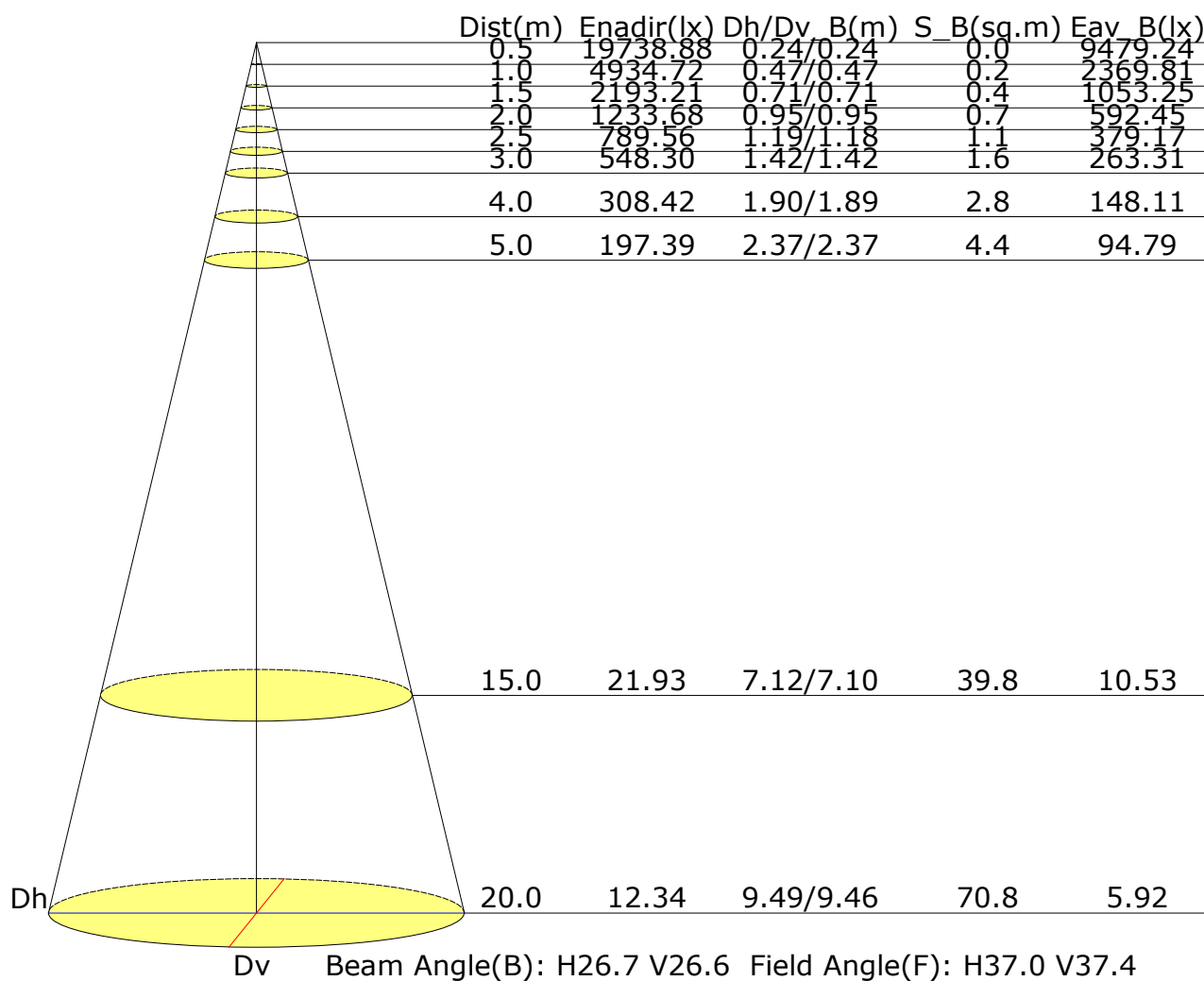
Test Device: CHL-6E

Distance: 2.905 m

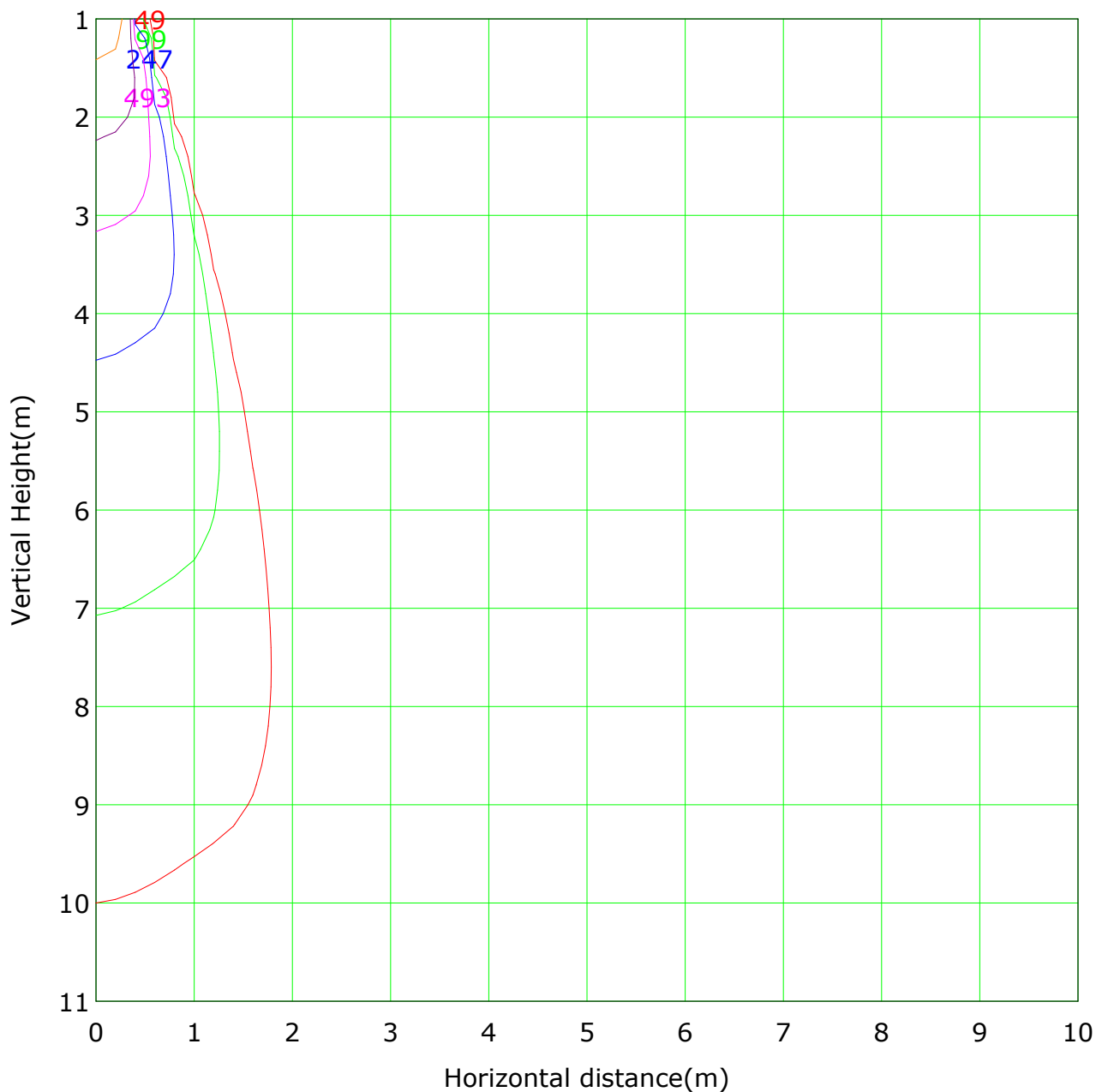
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 4934.7 lx

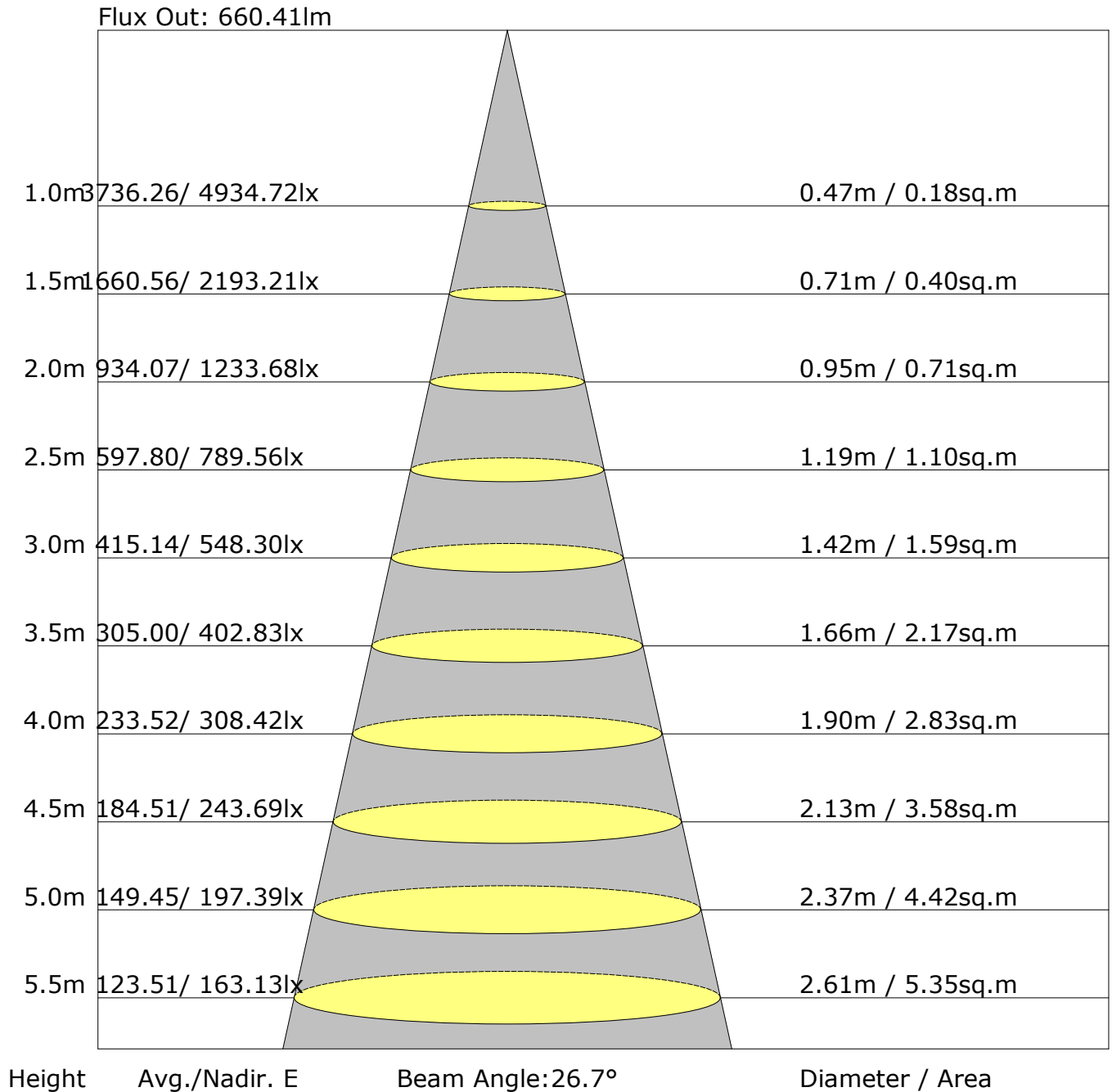
(1%): 49.3 lx	(2%): 98.7 lx
(5%): 246.7 lx	(10%): 493.5 lx
(20%): 986.9 lx	(50%): 2467.4 lx
(100%): 4934.7 lx	

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	9.4	9.9	9.6	10.1	10.3	9.2	9.8	9.5	10.0	10.2
3H	10.0	10.5	10.3	10.7	10.9	10.1	10.6	10.4	10.8	11.0
4H	10.1	10.6	10.4	10.9	11.1	10.2	10.7	10.5	10.9	11.2
6H	10.1	10.5	10.4	10.8	11.1	10.1	10.6	10.4	10.8	11.1
8H	10.1	10.5	10.4	10.8	11.1	10.1	10.5	10.4	10.8	11.1
12H	10.0	10.4	10.4	10.7	11.0	10.0	10.5	10.4	10.8	11.1
X=4H Y=2H	9.5	10.0	9.8	10.3	10.5	9.4	9.9	9.7	10.1	10.4
3H	10.3	10.7	10.6	11.0	11.3	10.4	10.8	10.8	11.1	11.4
4H	10.5	10.9	10.9	11.3	11.6	10.6	10.9	10.9	11.3	11.6
6H	10.5	10.8	10.9	11.2	11.6	10.5	10.8	10.9	11.2	11.6
8H	10.4	10.7	10.9	11.1	11.5	10.5	10.8	10.9	11.1	11.5
12H	10.4	10.7	10.8	11.1	11.5	10.4	10.7	10.8	11.1	11.5
X=8H Y=4H	10.6	10.9	11.0	11.2	11.6	10.6	10.9	11.0	11.3	11.7
6H	10.5	10.7	10.9	11.2	11.6	10.5	10.7	10.9	11.1	11.6
8H	10.4	10.6	10.9	11.1	11.6	10.4	10.6	10.9	11.1	11.6
12H	10.4	10.6	10.9	11.0	11.5	10.4	10.6	10.9	11.0	11.5
X=12H Y=4H	10.5	10.8	10.9	11.2	11.6	10.5	10.8	11.0	11.2	11.6
6H	10.4	10.6	10.9	11.1	11.6	10.4	10.6	10.9	11.1	11.6
8H	10.4	10.6	10.9	11.0	11.5	10.4	10.6	10.9	11.0	11.5
Variations with the observer position at spacings:										
S=1.0H	+1.8/-2.6					+1.7/-2.1				
S=1.5H	+3.2/-4.8					+3.0/-4.5				
S=2.0H	+4.3/-6.1					+4.2/-6.1				

Calculate in accordance with CIE Pub.117. The table is revised with 959Im ($8\log(F/F_0) = -0.1$).

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	506	52.8
	FL (0°-30°)	486	50.6
	FM (30°-60°)	18	1.9
	FH (60°-80°)	2	0.2
	FVH (80°-90°)	0	0.0
	BACK LIGHT	453	47.2
	BL (0°-30°)	433	45.1
	BM (30°-60°)	17	1.8
	BH (60°-80°)	3	0.3
	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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	4929.5	4.7	4.7	0.49	0.49
1.0-2.0	4908.7	14.1	18.8	1.47	1.96
2.0-3.0	4869.4	23.3	42.1	2.43	4.39
3.0-4.0	4817.8	32.3	74.4	3.36	7.75
4.0-5.0	4752.9	40.9	115.2	4.26	12.02
5.0-6.0	4671.1	49.1	164.3	5.12	17.13
6.0-7.0	4568.9	56.7	221.1	5.91	23.05
7.0-8.0	4433.0	63.5	284.5	6.62	29.66
8.0-9.0	4246.3	68.8	353.3	7.18	36.84
9.0-10.0	3996.6	72.3	425.7	7.54	44.38
10.0-11.0	3675.1	73.4	499.1	7.66	52.04
11.0-12.0	3288.5	71.9	571.0	7.50	59.54
12.0-13.0	2849.0	67.6	638.6	7.05	66.59
13.0-14.0	2377.1	60.9	699.5	6.34	72.93
14.0-15.0	1910.9	52.5	752.0	5.47	78.40
15.0-16.0	1475.6	43.2	795.2	4.51	82.91
16.0-17.0	1090.1	34.0	829.2	3.54	86.45
17.0-18.0	775.2	25.6	854.7	2.67	89.11
18.0-19.0	533.6	18.6	873.3	1.94	91.05
19.0-20.0	353.5	12.9	886.2	1.35	92.40
20.0-21.0	229.2	8.8	895.0	0.92	93.32
21.0-22.0	148.9	6.0	901.0	0.62	93.94
22.0-23.0	97.9	4.1	905.1	0.43	94.37
23.0-24.0	67.4	2.9	908.1	0.31	94.68
24.0-25.0	49.8	2.3	910.3	0.24	94.91
25.0-26.0	40.0	1.9	912.2	0.20	95.11
26.0-27.0	34.1	1.7	913.9	0.17	95.28
27.0-28.0	30.5	1.5	915.4	0.16	95.45
28.0-29.0	28.4	1.5	916.9	0.16	95.60
29.0-30.0	26.7	1.4	918.4	0.15	95.75
30.0-31.0	25.3	1.4	919.8	0.15	95.90
31.0-32.0	25.3	1.4	921.2	0.15	96.05
32.0-33.0	26.0	1.5	922.8	0.16	96.21
33.0-34.0	27.0	1.6	924.4	0.17	96.38
34.0-35.0	28.1	1.7	926.1	0.18	96.56
35.0-36.0	27.4	1.7	927.9	0.18	96.74

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	27.4	1.8	929.7	0.19	96.93
37.0-38.0	28.1	1.9	931.5	0.20	97.12
38.0-39.0	27.4	1.9	933.4	0.19	97.32
39.0-40.0	26.3	1.8	935.2	0.19	97.51
40.0-41.0	25.6	1.8	937.1	0.19	97.70
41.0-42.0	24.6	1.8	938.9	0.19	97.89
42.0-43.0	23.5	1.7	940.6	0.18	98.07
43.0-44.0	22.5	1.7	942.3	0.18	98.25
44.0-45.0	21.1	1.6	943.9	0.17	98.41
45.0-46.0	19.3	1.5	945.4	0.16	98.57
46.0-47.0	17.2	1.4	946.8	0.14	98.71
47.0-48.0	15.8	1.3	948.1	0.13	98.85
48.0-49.0	13.7	1.1	949.2	0.12	98.96
49.0-50.0	11.9	1.0	950.2	0.10	99.07
50.0-51.0	10.2	0.9	951.1	0.09	99.16
51.0-52.0	8.1	0.7	951.7	0.07	99.23
52.0-53.0	6.3	0.5	952.3	0.06	99.29
53.0-54.0	4.9	0.4	952.7	0.05	99.33
54.0-55.0	3.2	0.3	953.0	0.03	99.36
55.0-56.0	2.1	0.2	953.2	0.02	99.38
56.0-57.0	2.8	0.3	953.5	0.03	99.41
57.0-58.0	2.1	0.2	953.7	0.02	99.43
58.0-59.0	2.1	0.2	953.8	0.02	99.45
59.0-60.0	2.8	0.3	954.1	0.03	99.48
60.0-61.0	3.2	0.3	954.4	0.03	99.51
61.0-62.0	3.5	0.3	954.8	0.04	99.54
62.0-63.0	4.2	0.4	955.2	0.04	99.59
63.0-64.0	4.2	0.4	955.6	0.04	99.63
64.0-65.0	3.2	0.3	955.9	0.03	99.66
65.0-66.0	3.5	0.4	956.2	0.04	99.70
66.0-67.0	4.6	0.5	956.7	0.05	99.75
67.0-68.0	4.6	0.5	957.2	0.05	99.80
68.0-69.0	3.5	0.4	957.5	0.04	99.83
69.0-70.0	3.5	0.4	957.9	0.04	99.87
70.0-71.0	3.5	0.4	958.2	0.04	99.91
71.0-72.0	2.1	0.2	958.5	0.02	99.93

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:

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	4934.7	4934.7								
G1.0	4908.0	4940.3								
G2.0	4858.9	4927.7								
G3.0	4788.7	4902.4								
G4.0	4708.6	4871.5								
G5.0	4615.9	4815.4								
G6.0	4528.9	4724.1								
G7.0	4446.0	4576.6								
G8.0	4360.4	4349.1								
G9.0	4249.4	4026.1								
G10.0	4083.7	3627.3								
G11.0	3840.8	3148.4								
G12.0	3522.0	2642.9								
G13.0	3114.7	2116.3								
G14.0	2648.5	1629.0								
G15.0	2152.8	1213.3								
G16.0	1666.9	869.3								
G17.0	1224.6	599.6								
G18.0	873.5	403.0								
G19.0	594.0	264.0								
G20.0	386.2	169.9								
G21.0	248.6	112.3								
G22.0	157.3	77.2								
G23.0	101.1	56.2								
G24.0	68.8	43.5								
G25.0	50.5	36.5								
G26.0	40.7	32.3								
G27.0	33.7	29.5								
G28.0	32.3	26.7								
G29.0	29.5	25.3								
G30.0	26.7	25.3								
G31.0	23.9	25.3								
G32.0	25.3	26.7								
G33.0	23.9	28.1								
G34.0	28.1	28.1								
G35.0	28.1	28.1								
G36.0	28.1	25.3								

C Plane (°):0.0-180.0: 180.0
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Gamma Plane (°):0.0-90.0:1.0
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Distance: 2.905 m
Humidity:
Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	28.1	28.1								
G38.0	28.1	28.1								
G39.0	28.1	25.3								
G40.0	28.1	23.9								
G41.0	26.7	23.9								
G42.0	25.3	22.5								
G43.0	23.9	22.5								
G44.0	22.5	21.1								
G45.0	22.5	18.3								
G46.0	21.1	15.4								
G47.0	19.7	12.6								
G48.0	16.9	14.0								
G49.0	14.0	9.8								
G50.0	14.0	9.8								
G51.0	9.8	7.0								
G52.0	9.8	5.6								
G53.0	7.0	2.8								
G54.0	4.2	5.6								
G55.0	1.4	1.4								
G56.0	4.2	1.4								
G57.0	1.4	4.2								
G58.0	1.4	1.4								
G59.0	1.4	4.2								
G60.0	1.4	4.2								
G61.0	2.8	4.2								
G62.0	2.8	4.2								
G63.0	5.6	4.2								
G64.0	2.8	4.2								
G65.0	1.4	4.2								
G66.0	4.2	4.2								
G67.0	4.2	5.6								
G68.0	4.2	4.2								
G69.0	1.4	4.2								
G70.0	4.2	4.2								
G71.0	1.4	4.2								
G72.0	1.4	1.4								
G73.0	1.4	1.4								

C Plane (°):0.0-180.0: 180.0
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Gamma Plane (°):0.0-90.0:1.0
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Humidity:
Inspector:

Inspector: