

Report No.:

Test Time: 2026-04-11 16:16

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: SOFT55-50D

Luminous Width (mm): -51

Current: 0.060 A

Power Factor: 0.934

Luminous Length (mm): -51

Voltage: 227.1 V

Power: 12.80 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1174.6 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H54

Vertical Diffuse Angle(50%): V54

Luminaire Efficacy Rating (LER): 91.82

Max. Intensity: 1709.49 cd

S/MH(C0/C180): 0.85

Total Rated Lamp Lumens: 1174.6 lm

Efficiency: 100%

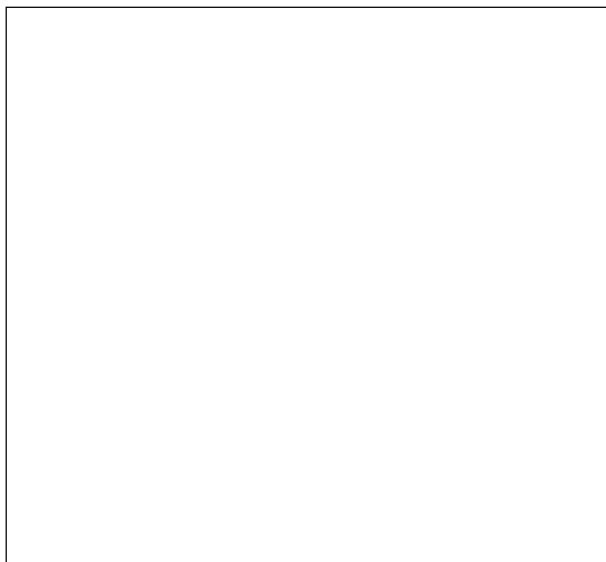
Upward Ratio: 0%

Central Intensity: 1709.49 cd

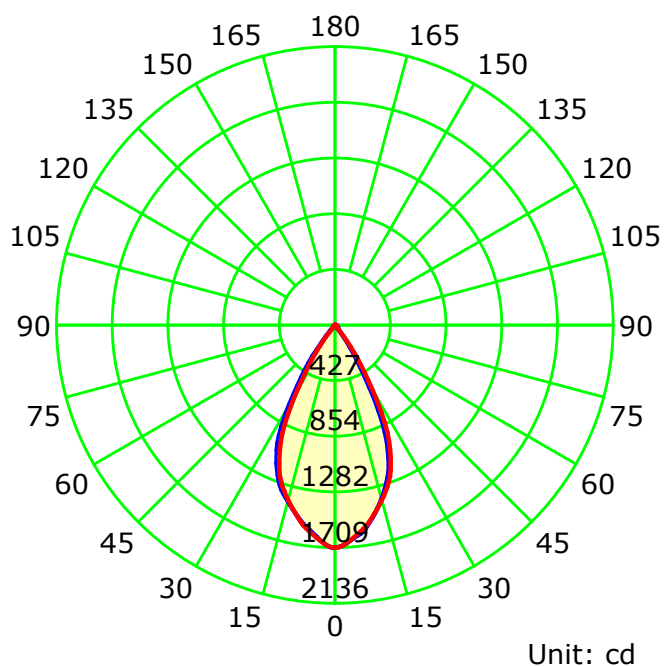
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 0.85

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

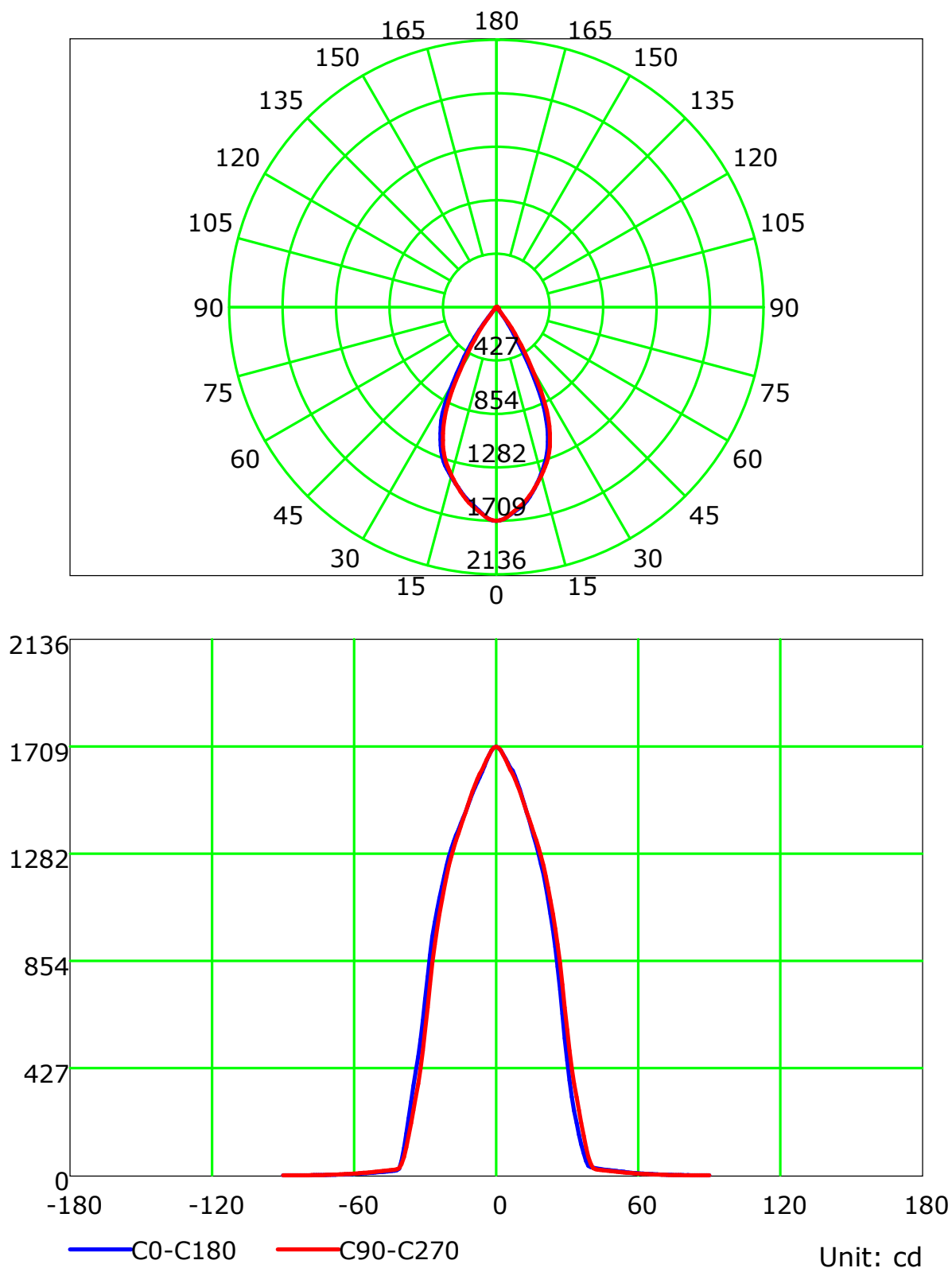
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

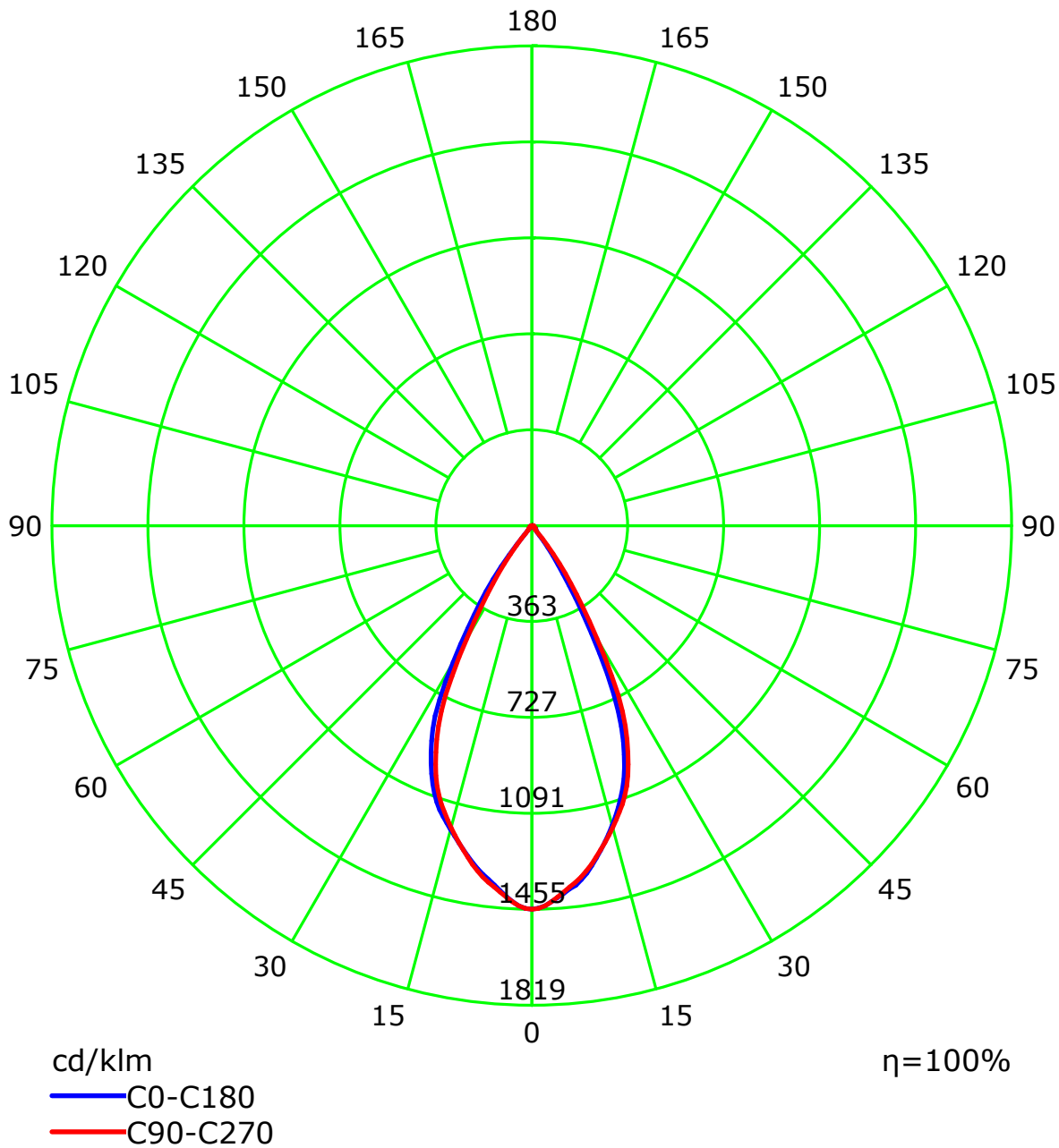
Luminous Intensity Distribution Curve



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: 3.010 m
Humidity:
Inspector:

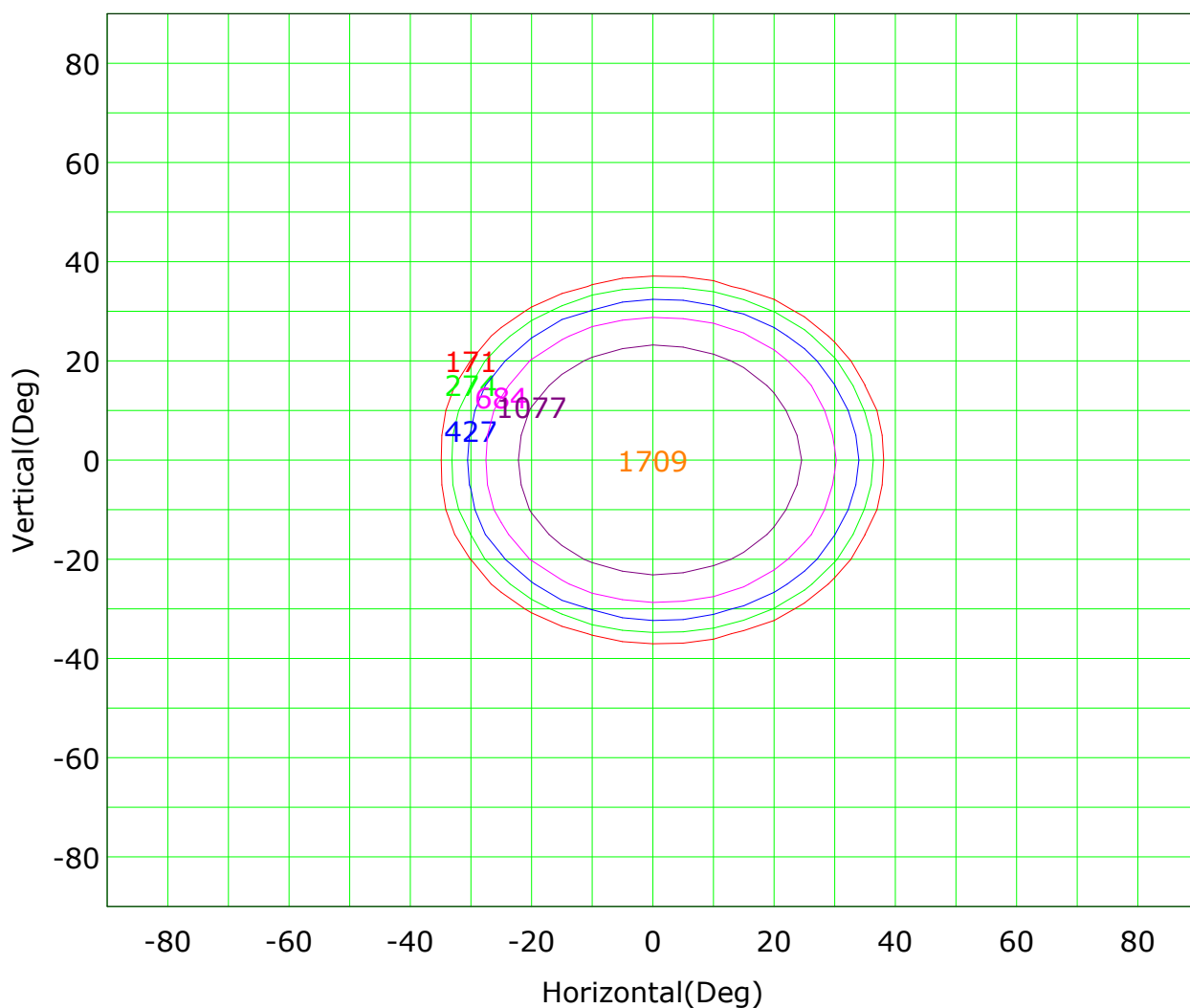
Luminous Intensity Distribution Curve(cd/klm)



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: 3.010 m
Humidity:
Inspector:

Isocandela (rectangle)



Imax (100%): 1709 cd

— (10%): 171 cd	— (16%): 274 cd
— (25%): 427 cd	— (40%): 684 cd
— (63%): 1077 cd	— (100%): 1709 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

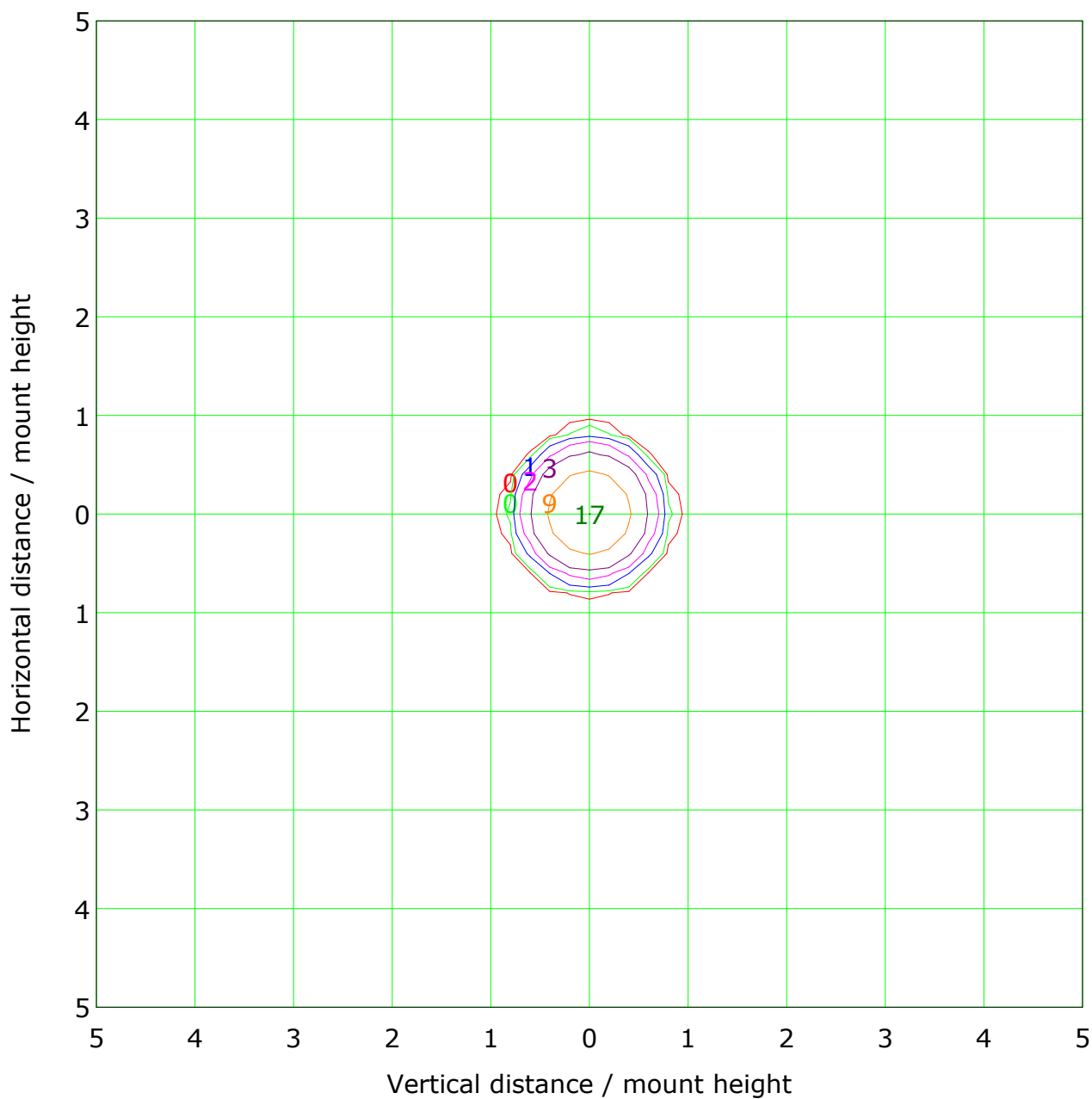
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 17.1 lx

— (1%): 0.2 lx	— (2%): 0.3 lx
— (5%): 0.9 lx	— (10%): 1.7 lx
— (20%): 3.4 lx	— (50%): 8.5 lx
— (100%): 17.1 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

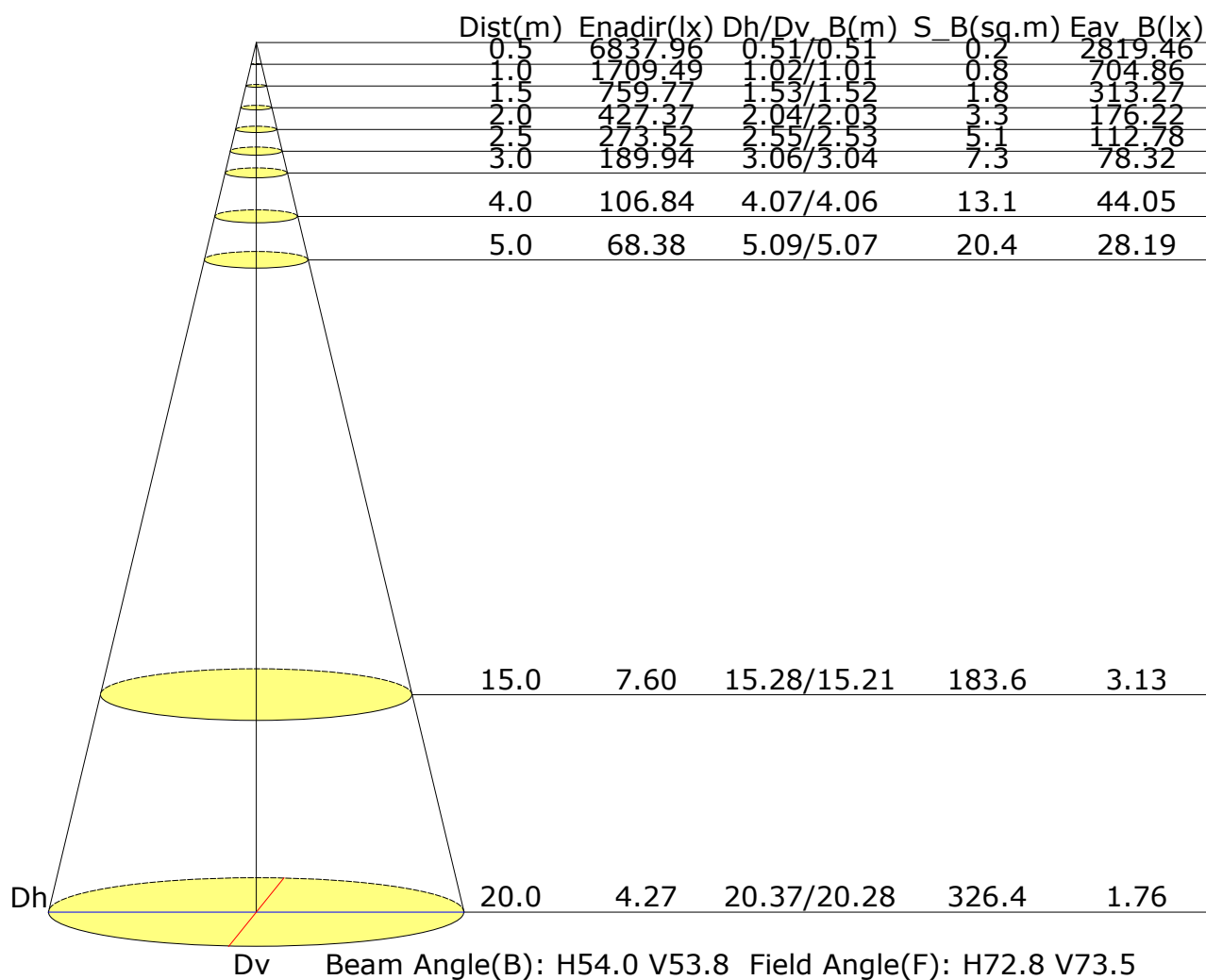
Test Device: CHL-6E

Distance: 3.010 m

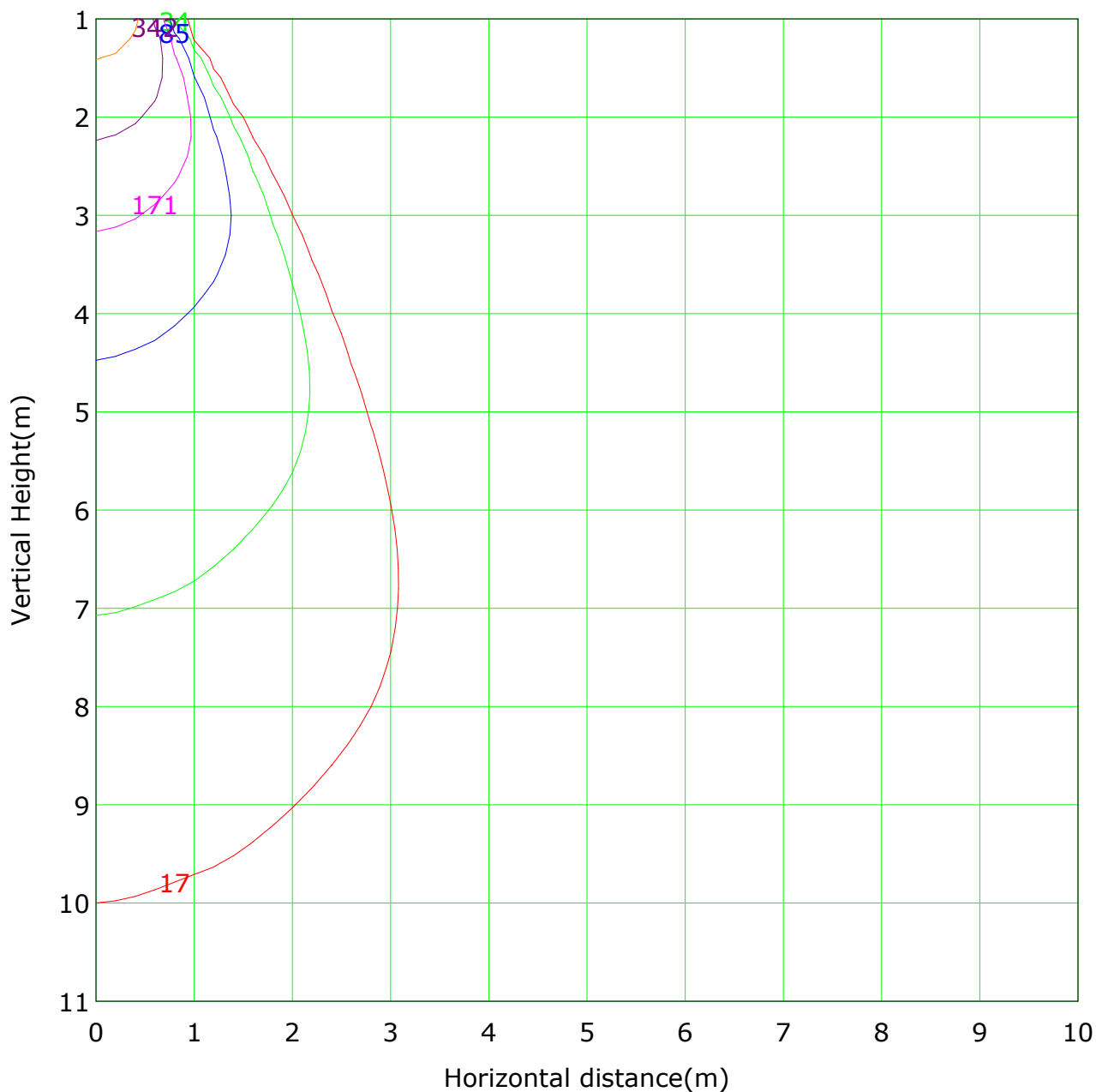
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1709.5 lx

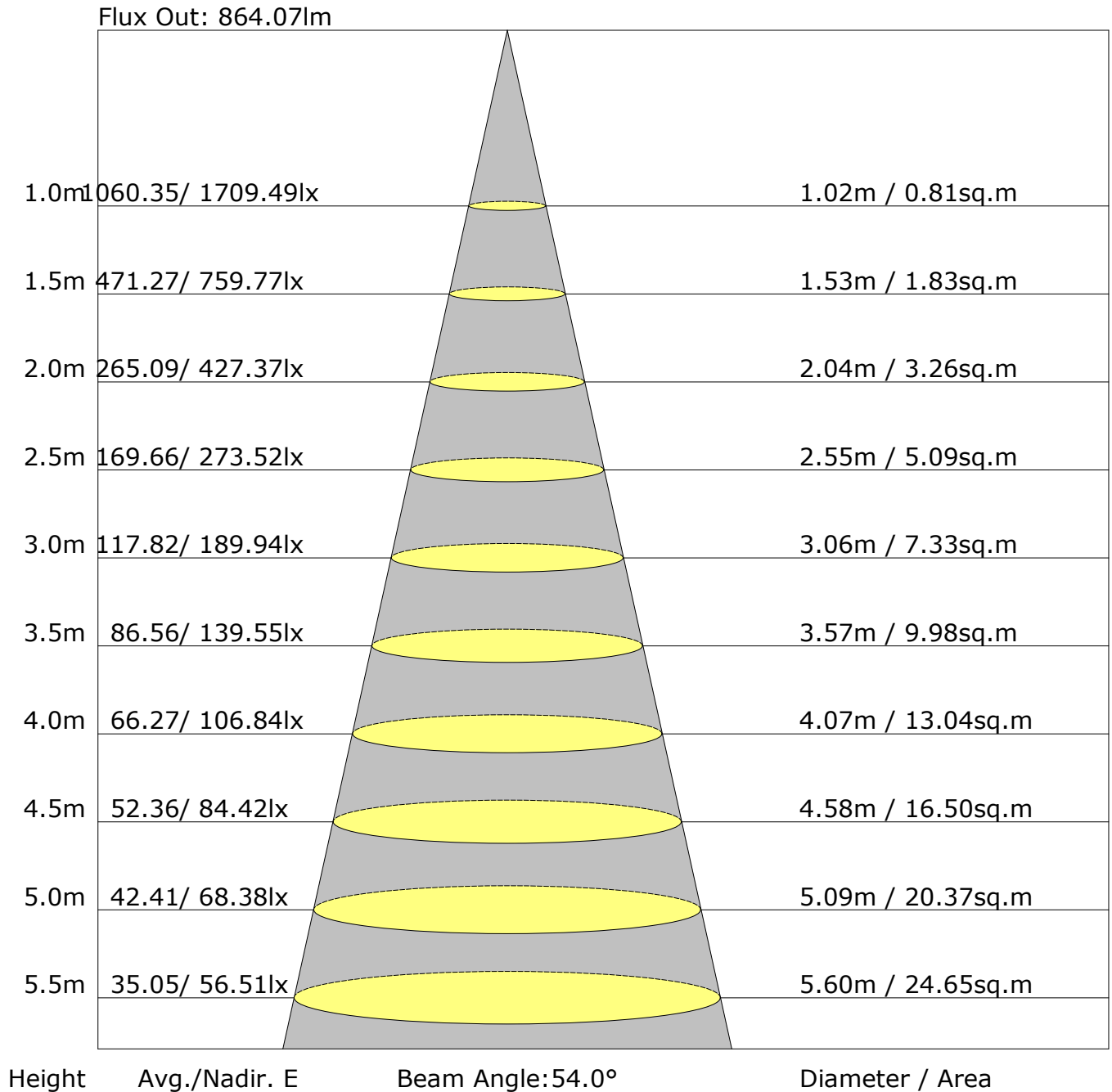
— (1%): 17.1 lx	— (2%): 34.2 lx
— (5%): 85.5 lx	— (10%): 170.9 lx
— (20%): 341.9 lx	— (50%): 854.7 lx
— (100%):1709.5 lx	

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: 3.010 m
Humidity:
Inspector:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.010 m
Humidity:
Inspector:

The Average Illuminance Effective Figure



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	17.7	18.5	17.9	18.7	18.9	19.0	19.8	19.3	20.0	20.2
3H	17.7	18.4	17.9	18.6	18.9	18.9	19.6	19.2	19.9	20.1
4H	17.6	18.3	17.9	18.5	18.8	18.9	19.5	19.2	19.8	20.1
6H	17.6	18.2	17.9	18.5	18.8	18.8	19.4	19.1	19.7	20.0
8H	17.5	18.1	17.9	18.4	18.7	18.8	19.4	19.1	19.7	20.0
12H	17.5	18.1	17.9	18.4	18.7	18.7	19.3	19.1	19.6	19.9
X=4H Y=2H	17.5	18.2	17.9	18.5	18.7	18.8	19.5	19.2	19.8	20.0
3H	17.5	18.1	17.9	18.4	18.7	18.8	19.3	19.1	19.7	20.0
4H	17.5	18.0	17.9	18.4	18.7	18.7	19.2	19.1	19.6	19.9
6H	17.5	17.9	17.9	18.3	18.7	18.7	19.1	19.1	19.5	19.9
8H	17.4	17.9	17.9	18.2	18.7	18.6	19.0	19.0	19.4	19.8
12H	17.4	17.8	17.8	18.2	18.6	18.6	18.9	19.0	19.4	19.8
X=8H Y=4H	17.4	17.8	17.8	18.2	18.6	18.6	19.0	19.0	19.4	19.8
6H	17.4	17.7	17.8	18.1	18.6	18.5	18.9	19.0	19.3	19.8
8H	17.4	17.6	17.8	18.1	18.6	18.5	18.8	19.0	19.3	19.7
12H	17.3	17.6	17.8	18.0	18.5	18.5	18.7	19.0	19.2	19.7
X=12H Y=4H	17.4	17.7	17.8	18.1	18.6	18.6	18.9	19.0	19.3	19.8
6H	17.3	17.6	17.8	18.1	18.6	18.5	18.8	19.0	19.2	19.7
8H	17.3	17.6	17.8	18.0	18.5	18.5	18.7	19.0	19.2	19.7
Variations with the observer position at spacings:										
S=1.0H	+5.5/-5.4					+6.0/-7.3				
S=1.5H	+8.3/-6.6					+8.8/-8.6				
S=2.0H	+10.2/-7.5					+10.8/-9.5				

Calculate in accordance with CIE Pub.117. The table is revised with 1175lm ($8\log(F/F_0) = 0.6$).

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: 3.010 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	565	48.1
	FL (0°-30°)	478	40.7
	FM (30°-60°)	84	7.1
	FH (60°-80°)	4	0.3
	FVH (80°-90°)	0	0.0
	BACK LIGHT	609	51.9
	BL (0°-30°)	498	42.4
	BM (30°-60°)	108	9.2
	BH (60°-80°)	3	0.2
	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: 3.010 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	1707.2	1.6	1.6	0.14	0.14
1.0-2.0	1699.7	4.9	6.5	0.42	0.55
2.0-3.0	1686.1	8.1	14.6	0.69	1.24
3.0-4.0	1667.9	11.2	25.7	0.95	2.19
4.0-5.0	1648.0	14.2	39.9	1.21	3.40
5.0-6.0	1627.9	17.1	57.0	1.46	4.86
6.0-7.0	1609.1	20.0	77.0	1.70	6.56
7.0-8.0	1590.1	22.8	99.8	1.94	8.49
8.0-9.0	1568.5	25.4	125.2	2.16	10.66
9.0-10.0	1544.2	27.9	153.1	2.38	13.04
10.0-11.0	1517.6	30.3	183.5	2.58	15.62
11.0-12.0	1490.1	32.6	216.0	2.77	18.39
12.0-13.0	1462.3	34.7	250.8	2.95	21.35
13.0-14.0	1434.2	36.7	287.5	3.13	24.47
14.0-15.0	1406.1	38.6	326.1	3.29	27.76
15.0-16.0	1378.0	40.4	366.5	3.44	31.20
16.0-17.0	1349.5	42.0	408.5	3.58	34.78
17.0-18.0	1320.1	43.5	452.0	3.71	38.48
18.0-19.0	1288.7	44.8	496.9	3.82	42.30
19.0-20.0	1253.7	45.9	542.8	3.91	46.21
20.0-21.0	1214.0	46.6	589.4	3.97	50.18
21.0-22.0	1169.4	47.0	636.4	4.00	54.18
22.0-23.0	1121.5	47.1	683.4	4.01	58.19
23.0-24.0	1069.4	46.8	730.2	3.98	62.17
24.0-25.0	1013.3	46.1	776.3	3.92	66.09
25.0-26.0	952.7	45.0	821.3	3.83	69.92
26.0-27.0	883.5	43.2	864.5	3.68	73.60
27.0-28.0	803.3	40.7	905.2	3.46	77.06
28.0-29.0	715.0	37.4	942.6	3.19	80.25
29.0-30.0	625.1	33.8	976.3	2.87	83.12
30.0-31.0	539.6	30.0	1006.4	2.56	85.68
31.0-32.0	462.7	26.5	1032.9	2.26	87.94
32.0-33.0	396.6	23.4	1056.3	1.99	89.92
33.0-34.0	339.1	20.5	1076.8	1.75	91.67
34.0-35.0	286.2	17.8	1094.6	1.51	93.19
35.0-36.0	234.6	14.9	1109.5	1.27	94.46

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: 3.010 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	183.3	12.0	1121.5	1.02	95.48
37.0-38.0	135.1	9.0	1130.5	0.77	96.24
38.0-39.0	93.0	6.4	1136.8	0.54	96.78
39.0-40.0	59.5	4.1	1141.0	0.35	97.14
40.0-41.0	36.9	2.6	1143.6	0.22	97.36
41.0-42.0	26.6	1.9	1145.5	0.16	97.52
42.0-43.0	23.8	1.8	1147.3	0.15	97.68
43.0-44.0	22.4	1.7	1149.0	0.14	97.82
44.0-45.0	21.2	1.6	1150.6	0.14	97.96
45.0-46.0	20.0	1.6	1152.2	0.13	98.09
46.0-47.0	18.8	1.5	1153.7	0.13	98.22
47.0-48.0	17.8	1.4	1155.1	0.12	98.34
48.0-49.0	16.8	1.4	1156.5	0.12	98.46
49.0-50.0	15.9	1.3	1157.8	0.11	98.57
50.0-51.0	15.0	1.3	1159.1	0.11	98.68
51.0-52.0	14.0	1.2	1160.3	0.10	98.78
52.0-53.0	13.2	1.1	1161.4	0.10	98.88
53.0-54.0	12.4	1.1	1162.5	0.09	98.97
54.0-55.0	11.5	1.0	1163.6	0.09	99.06
55.0-56.0	10.6	1.0	1164.5	0.08	99.14
56.0-57.0	9.8	0.9	1165.4	0.08	99.22
57.0-58.0	9.0	0.8	1166.2	0.07	99.29
58.0-59.0	8.2	0.8	1167.0	0.07	99.35
59.0-60.0	7.5	0.7	1167.7	0.06	99.41
60.0-61.0	6.9	0.7	1168.4	0.06	99.47
61.0-62.0	6.3	0.6	1169.0	0.05	99.52
62.0-63.0	5.8	0.6	1169.6	0.05	99.57
63.0-64.0	5.3	0.5	1170.1	0.04	99.62
64.0-65.0	4.9	0.5	1170.6	0.04	99.66
65.0-66.0	4.5	0.4	1171.0	0.04	99.69
66.0-67.0	4.2	0.4	1171.4	0.04	99.73
67.0-68.0	3.7	0.4	1171.8	0.03	99.76
68.0-69.0	3.3	0.3	1172.1	0.03	99.79
69.0-70.0	3.0	0.3	1172.4	0.03	99.82
70.0-71.0	2.8	0.3	1172.7	0.02	99.84
71.0-72.0	2.5	0.3	1173.0	0.02	99.86

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: 3.010 m
Humidity:
Inspector:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.010 m
Humidity:
Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C180.0								
G0.0	1709.5	1709.5								
G1.0	1703.8	1705.9								
G2.0	1694.3	1694.6								
G3.0	1678.6	1676.9								
G4.0	1660.8	1655.3								
G5.0	1643.7	1632.2								
G6.0	1626.2	1609.3								
G7.0	1613.6	1587.4								
G8.0	1591.2	1568.4								
G9.0	1566.9	1547.5								
G10.0	1538.5	1524.1								
G11.0	1508.3	1499.4								
G12.0	1478.3	1474.4								
G13.0	1446.8	1449.6								
G14.0	1415.2	1425.1								
G15.0	1381.9	1402.3								
G16.0	1349.8	1378.1								
G17.0	1314.9	1355.3								
G18.0	1279.6	1330.7								
G19.0	1241.5	1303.1								
G20.0	1200.2	1270.2								
G21.0	1152.0	1233.4								
G22.0	1099.9	1192.4								
G23.0	1042.9	1150.8								
G24.0	979.1	1105.0								
G25.0	911.0	1058.0								
G26.0	832.2	1009.5								
G27.0	740.6	951.6								
G28.0	643.8	877.1								
G29.0	546.2	792.7								
G30.0	457.6	704.0								
G31.0	379.3	617.5								
G32.0	312.7	541.4								
G33.0	257.6	474.7								
G34.0	209.3	414.7								
G35.0	163.1	357.8								
G36.0	123.0	294.4								

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: 3.010 m
Humidity:
Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	87.4	228.4								
G38.0	57.3	167.3								
G39.0	38.1	109.4								
G40.0	32.7	57.5								
G41.0	30.8	26.4								
G42.0	28.8	20.4								
G43.0	27.0	19.1								
G44.0	25.8	17.7								
G45.0	24.3	16.8								
G46.0	23.0	15.8								
G47.0	21.9	14.7								
G48.0	20.6	14.0								
G49.0	19.4	13.2								
G50.0	18.5	12.6								
G51.0	17.4	11.6								
G52.0	16.2	11.0								
G53.0	15.3	10.4								
G54.0	14.3	9.8								
G55.0	13.1	9.0								
G56.0	12.0	8.4								
G57.0	11.1	7.5								
G58.0	10.1	7.2								
G59.0	9.3	6.3								
G60.0	8.6	6.0								
G61.0	7.8	5.4								
G62.0	7.2	4.8								
G63.0	6.6	4.5								
G64.0	6.2	4.1								
G65.0	5.7	3.6								
G66.0	5.1	3.5								
G67.0	4.8	3.3								
G68.0	4.2	2.5								
G69.0	3.9	2.4								
G70.0	3.5	2.3								
G71.0	3.3	2.1								
G72.0	2.8	1.6								
G73.0	2.4	1.6								

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

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.010 m
Humidity:
Inspector:

Unit: cd

[illegible]

Inspector: