

Report No.:

Test Time: 2025-09-29 19:22

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 60D

Luminous Width (mm): -15

Current: 0.100 A

Power Factor: 0.959

Luminous Length (mm): -435

Voltage: 227.9 V

Power: 21.80 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1623.1 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H48.9

Vertical Diffuse Angle(50%): V48.9

Luminaire Efficacy Rating (LER): 74.51

Max. Intensity: 2525.23 cd

S/MH(C0/C180): 0.81

Total Rated Lamp Lumens: 1623.1 lm

Efficiency: 100%

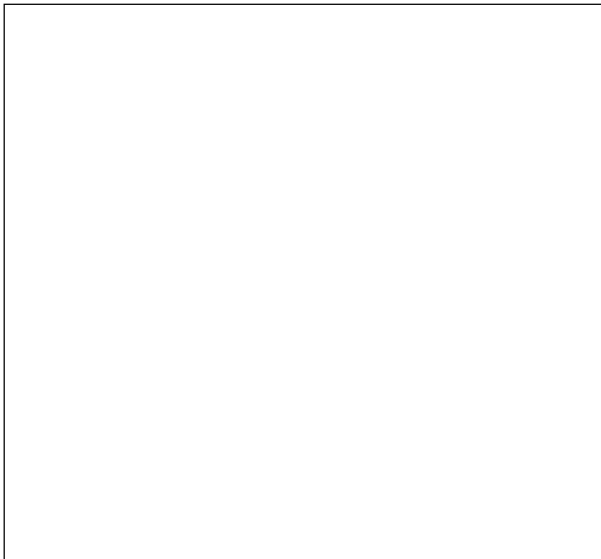
Upward Ratio: 0%

Central Intensity: 2514.18 cd

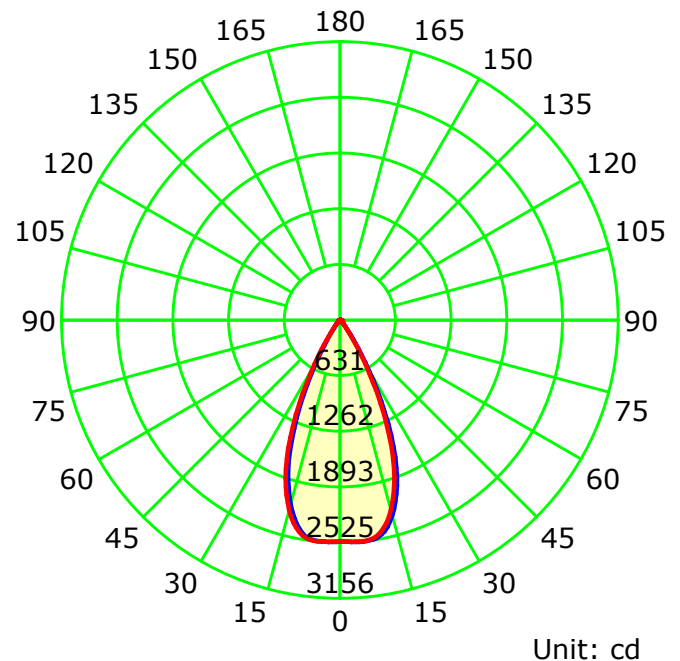
Pos of Max. Intensity: H0 V6

S/MH(C90/C270): 0.81

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

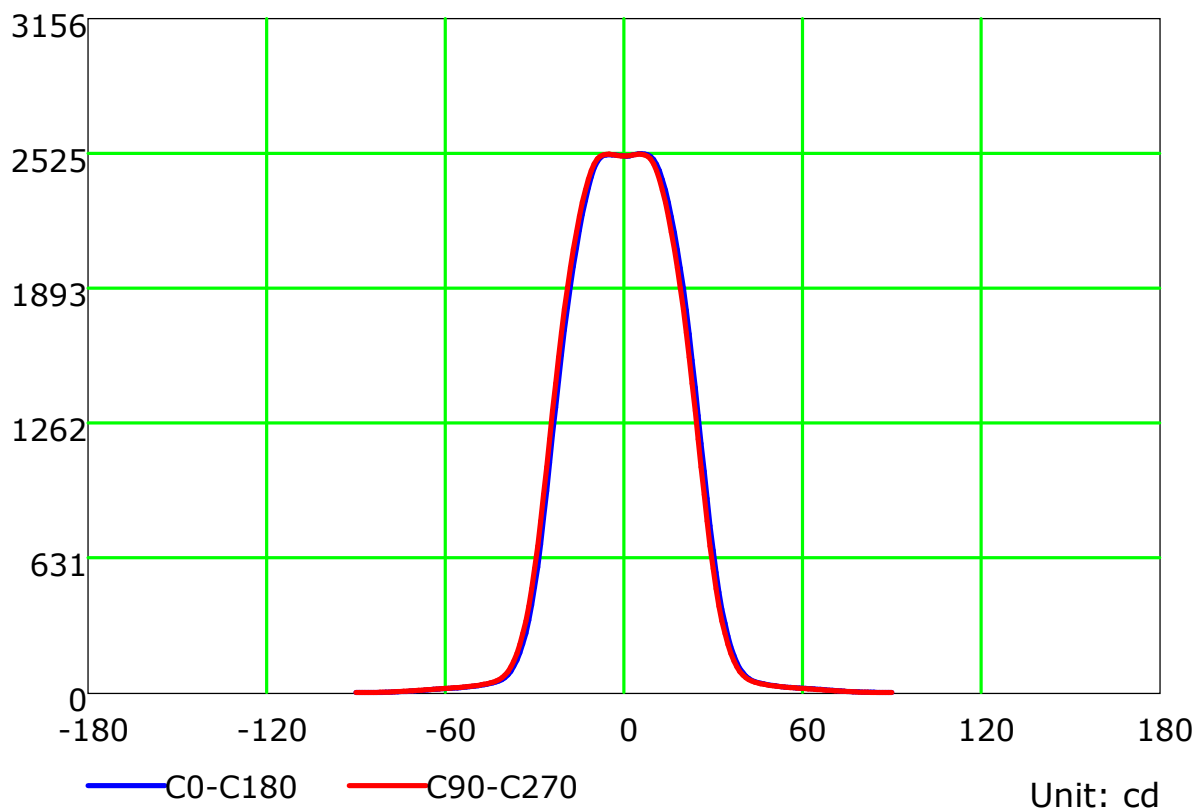
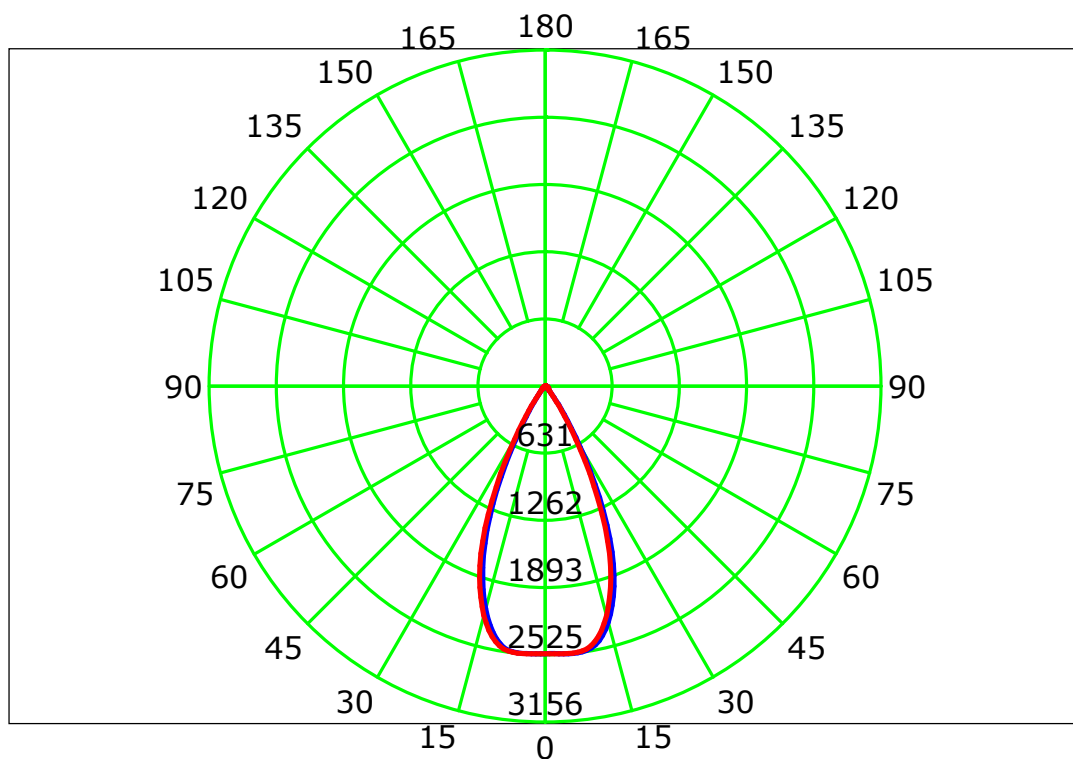
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve

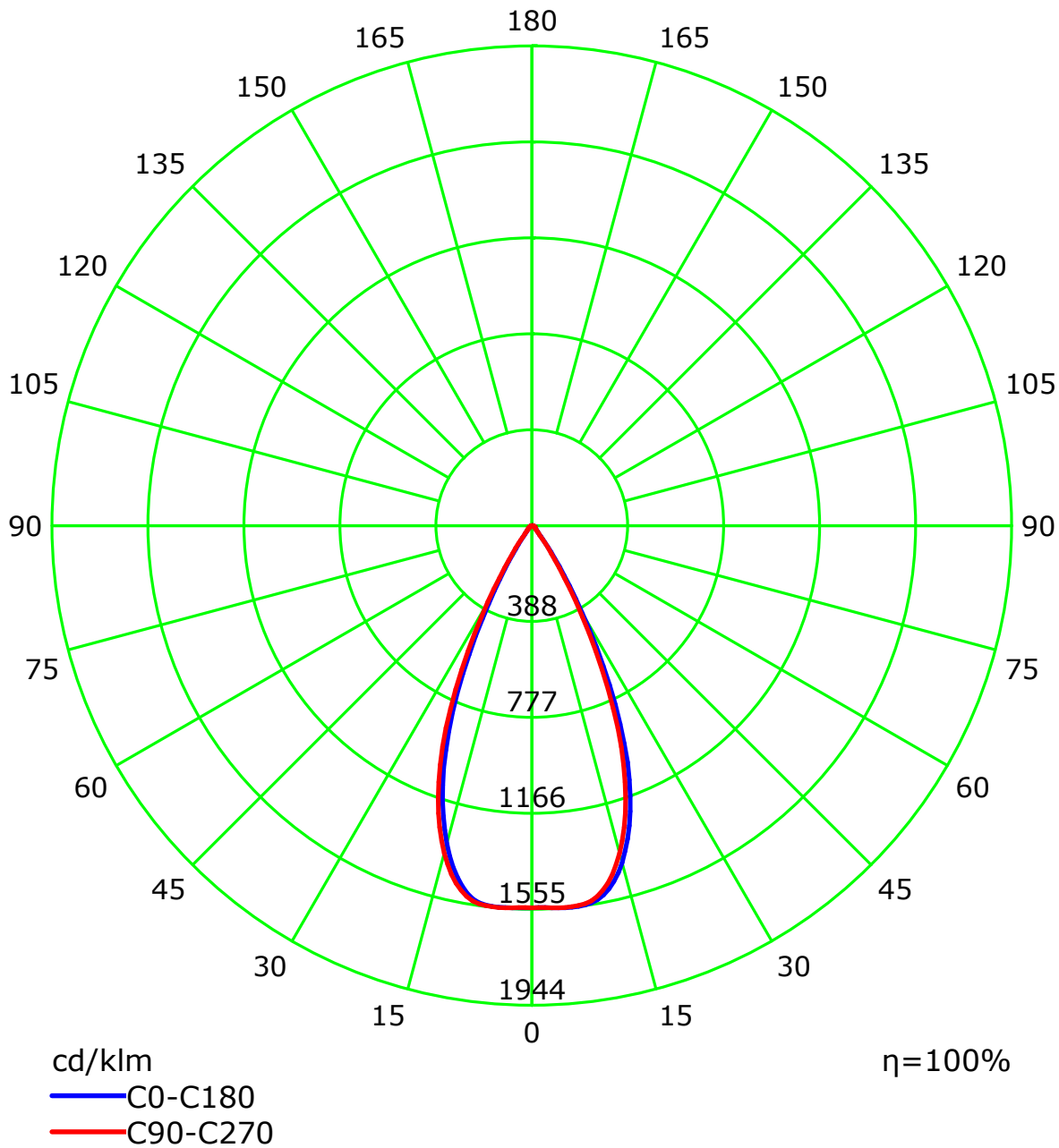


Unit: cd

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:

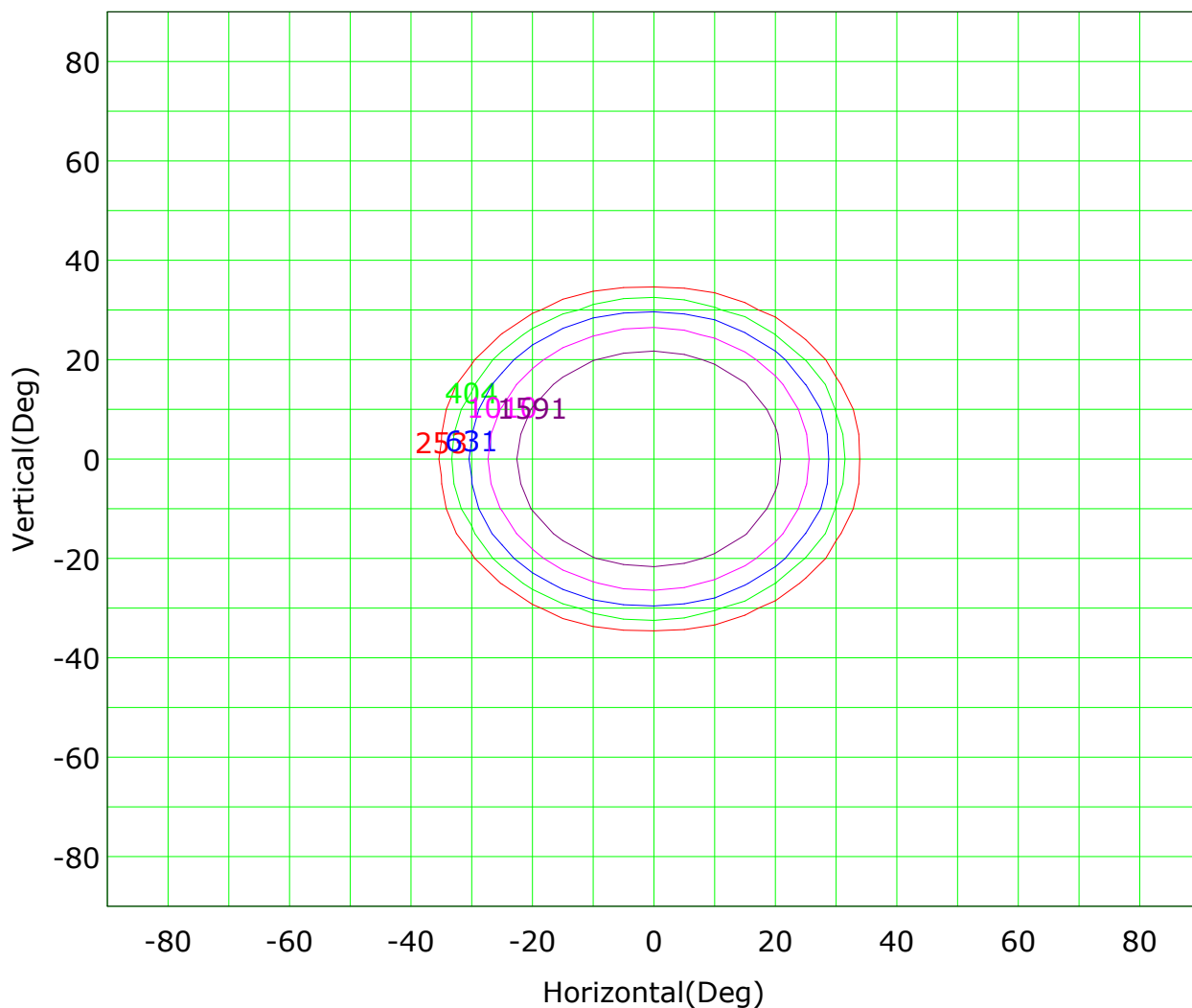
Luminous Intensity Distribution Curve(cd/klm)



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%): 2525 cd

(10%): 253 cd	(16%): 404 cd
(25%): 631 cd	(40%): 1010 cd
(63%): 1591 cd	(100%): 2525 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

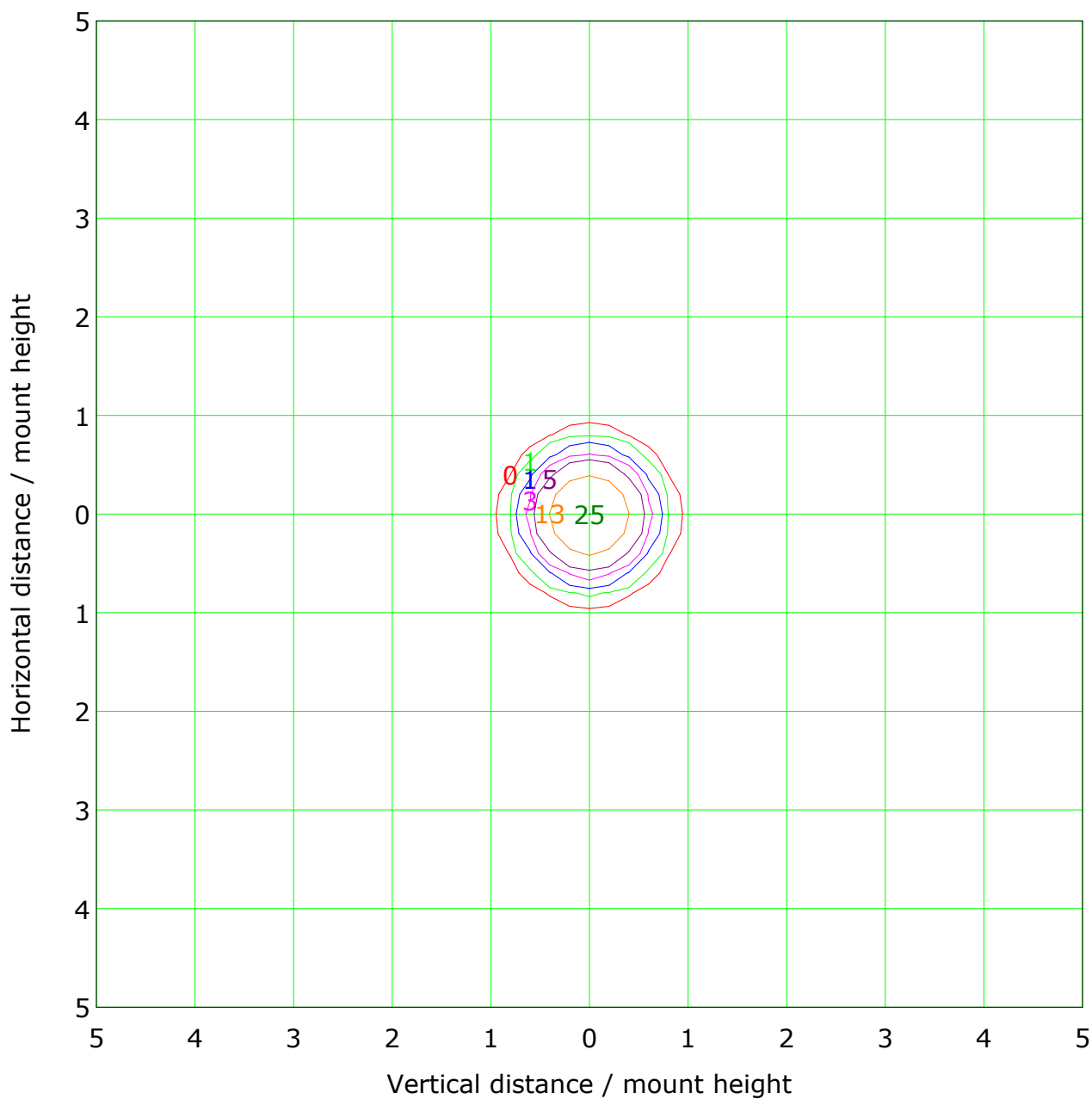
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

IsoLux Plot



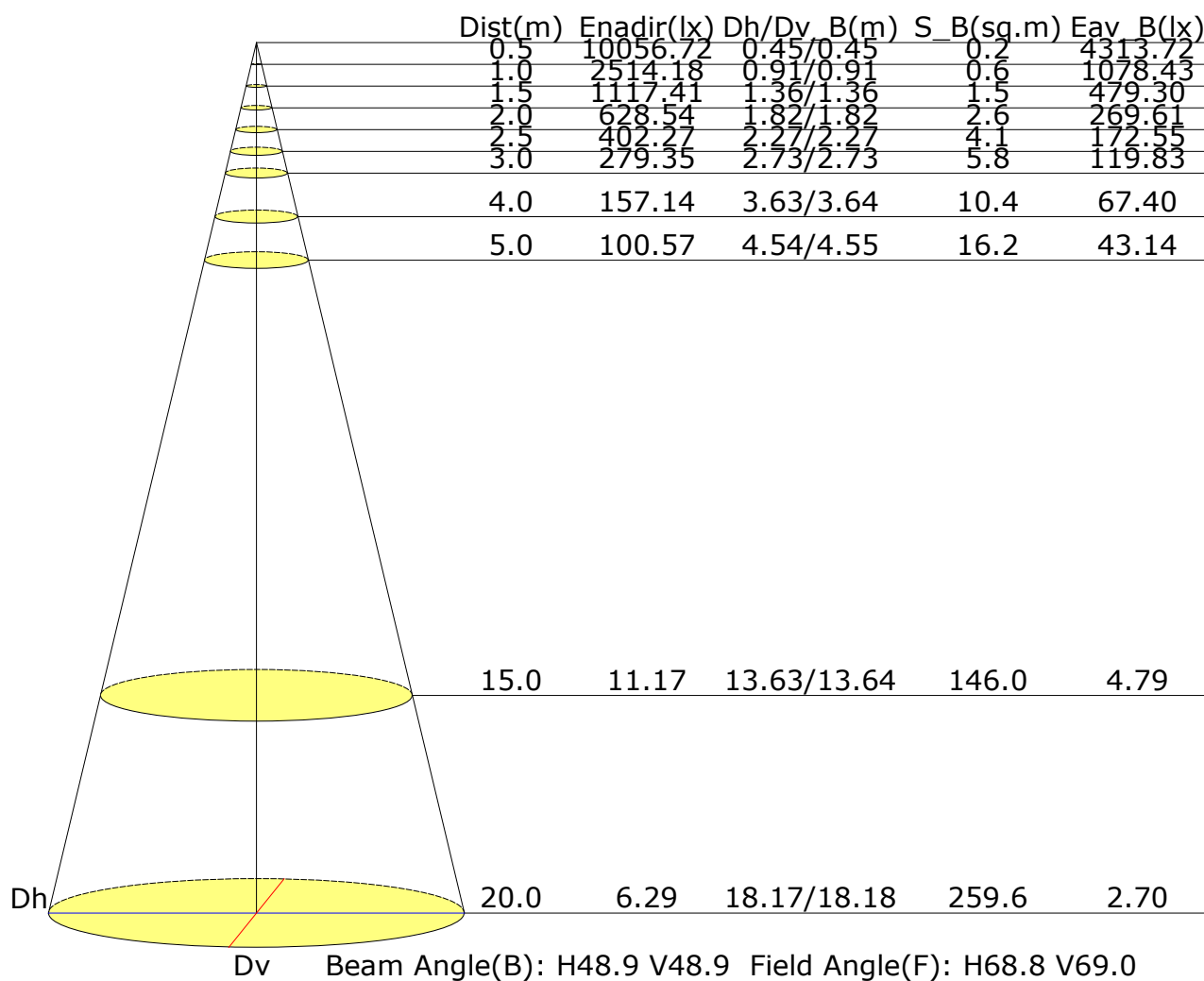
Mounting Height: 10.0m Max Lux(100%): 25.1 lx

— (1%): 0.3 lx	— (2%): 0.5 lx
— (5%): 1.3 lx	— (10%): 2.5 lx
— (20%): 5.0 lx	— (50%): 12.6 lx
— (100%): 25.1 lx	

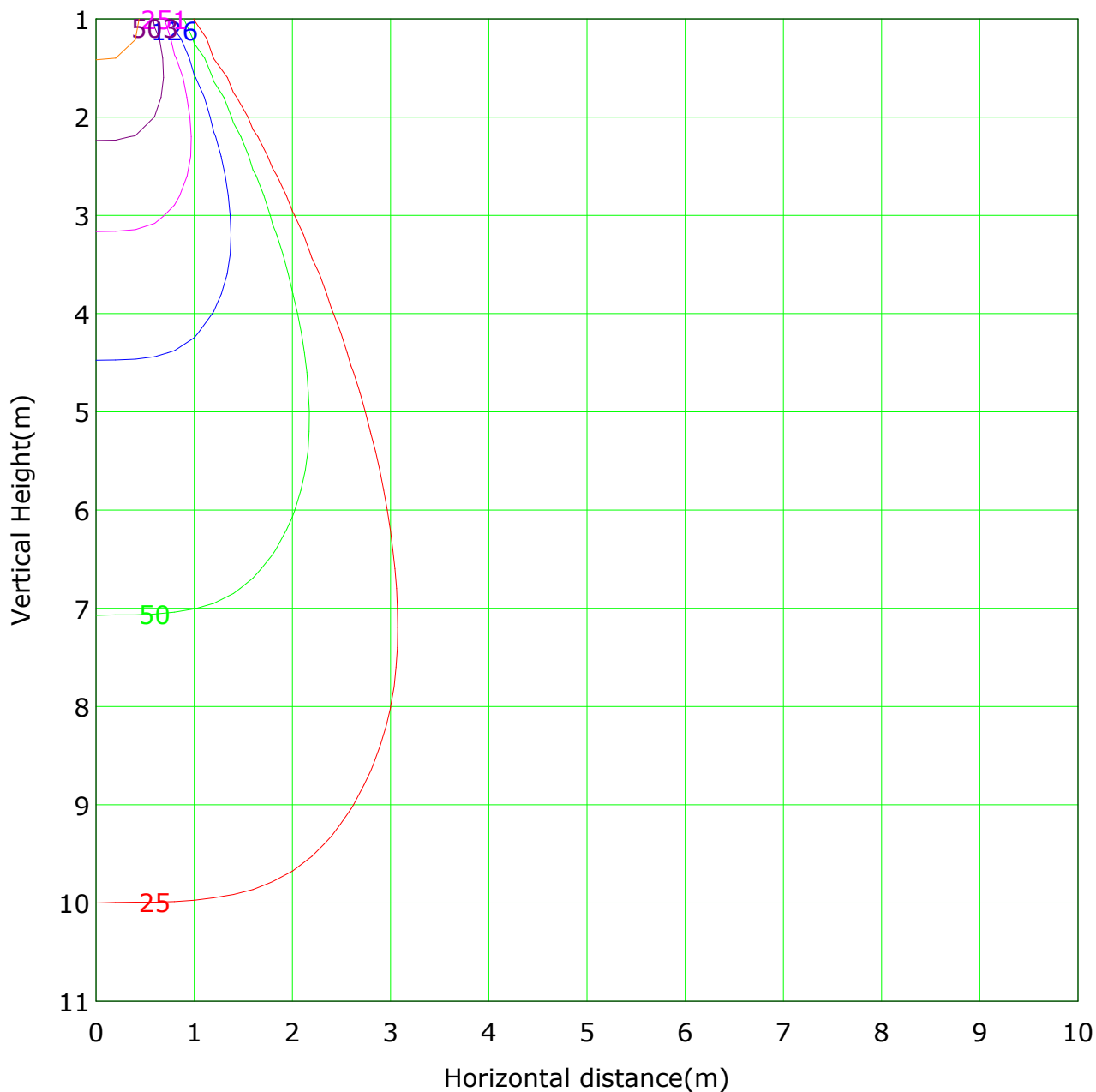
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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: 2514.2 lx

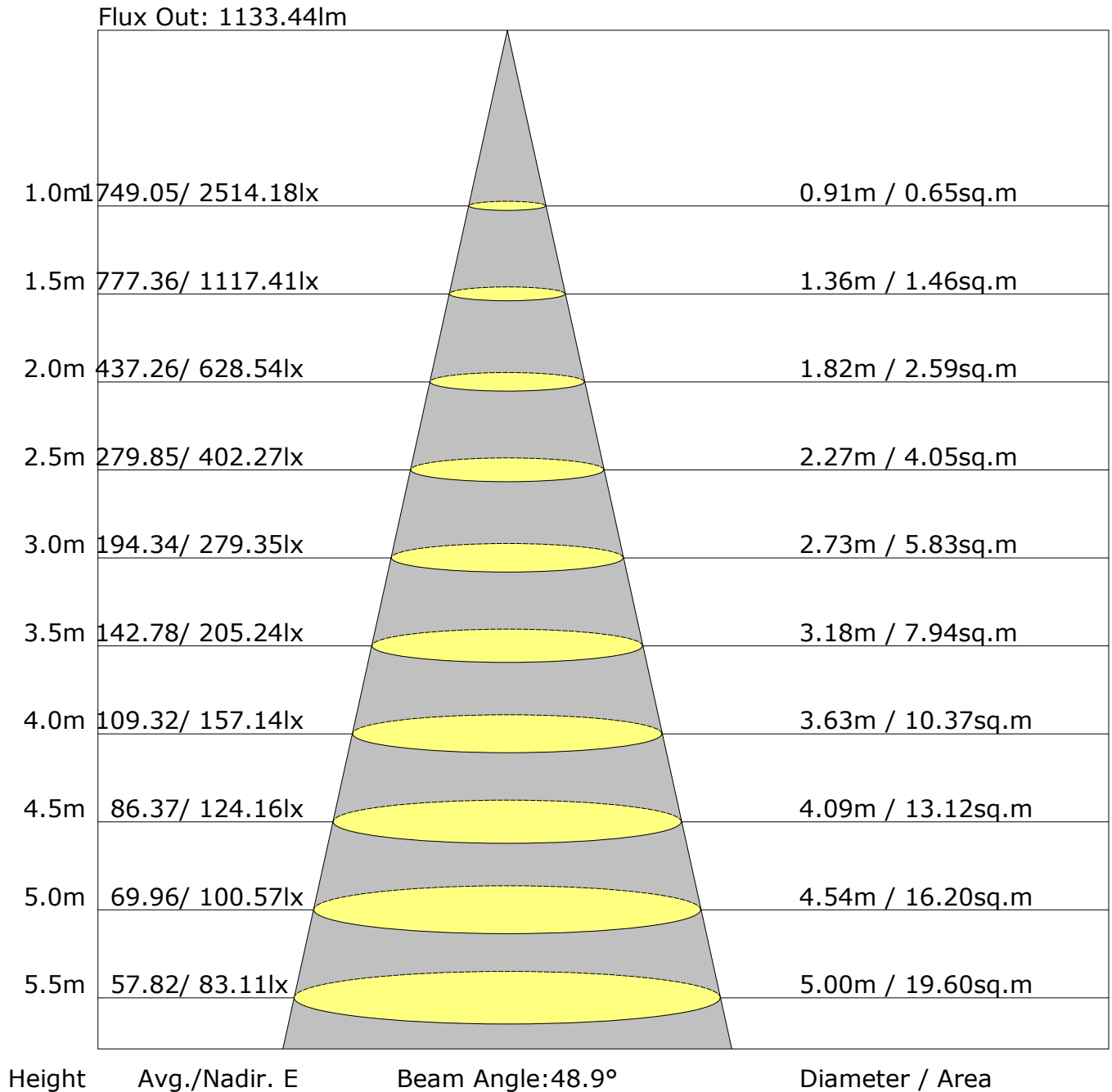
— (1%): 25.1 lx	— (2%): 50.3 lx
— (5%): 125.7 lx	— (10%): 251.4 lx
— (20%): 502.8 lx	— (50%): 1257.1 lx
— (100%): 2514.2 lx	

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



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	16.4	17.2	16.7	17.4	17.6	15.9	16.7	16.1	16.9	17.1
3H	16.7	17.4	17.0	17.6	17.9	16.1	16.9	16.4	17.1	17.3
4H	16.7	17.4	17.0	17.7	17.9	16.2	16.9	16.5	17.1	17.4
6H	16.7	17.4	17.1	17.6	17.9	16.2	16.8	16.5	17.1	17.4
8H	16.7	17.3	17.1	17.6	17.9	16.2	16.8	16.5	17.1	17.4
12H	16.7	17.3	17.1	17.6	17.9	16.1	16.7	16.5	17.0	17.3
X=4H Y=2H	16.4	17.1	16.7	17.4	17.6	15.9	16.6	16.2	16.9	17.1
3H	16.8	17.4	17.1	17.7	18.0	16.3	16.9	16.7	17.2	17.5
4H	16.9	17.4	17.3	17.7	18.1	16.4	16.9	16.8	17.2	17.6
6H	16.9	17.4	17.3	17.7	18.1	16.4	16.9	16.8	17.2	17.6
8H	16.9	17.3	17.3	17.7	18.1	16.4	16.8	16.8	17.2	17.6
12H	16.9	17.3	17.3	17.7	18.1	16.4	16.7	16.8	17.2	17.6
X=8H Y=4H	16.9	17.3	17.3	17.7	18.1	16.4	16.8	16.8	17.2	17.6
6H	16.9	17.2	17.4	17.7	18.1	16.4	16.7	16.9	17.2	17.6
8H	16.9	17.2	17.4	17.7	18.1	16.4	16.7	16.9	17.2	17.6
12H	16.9	17.2	17.4	17.6	18.1	16.4	16.7	16.9	17.1	17.6
X=12H Y=4H	16.8	17.2	17.3	17.6	18.0	16.3	16.7	16.8	17.1	17.5
6H	16.9	17.2	17.4	17.6	18.1	16.4	16.7	16.9	17.1	17.6
8H	16.9	17.1	17.4	17.6	18.1	16.4	16.6	16.9	17.1	17.6
Variations with the observer position at spacings:										
S=1.0H	+4.4/-2.9					+4.2/-2.7				
S=1.5H	+6.9/-3.2					+6.7/-3.1				
S=2.0H	+8.8/-3.8					+8.6/-3.8				

Calculate in accordance with CIE Pub.117. The table is revised with 1623lm ($8\log(F/F_0) = 1.7$).

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	837	51.5
	FL (0°-30°)	709	43.7
	FM (30°-60°)	116	7.1
	FH (60°-80°)	11	0.7
	FVH (80°-90°)	1	0.0
	BACK LIGHT	786	48.5
	BL (0°-30°)	675	41.6
	BM (30°-60°)	101	6.2
	BH (60°-80°)	10	0.6
	BVH (80°-90°)	1	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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	2514.1	2.4	2.4	0.15	0.15
1.0-2.0	2514.7	7.2	9.6	0.44	0.59
2.0-3.0	2516.6	12.0	21.7	0.74	1.33
3.0-4.0	2519.2	16.9	38.5	1.04	2.37
4.0-5.0	2521.4	21.7	60.2	1.34	3.71
5.0-6.0	2522.1	26.5	86.7	1.63	5.34
6.0-7.0	2520.5	31.3	118.0	1.93	7.27
7.0-8.0	2516.0	36.0	154.0	2.22	9.49
8.0-9.0	2506.5	40.6	194.7	2.50	11.99
9.0-10.0	2488.7	45.0	239.7	2.78	14.77
10.0-11.0	2460.9	49.2	288.9	3.03	17.80
11.0-12.0	2424.6	53.0	341.9	3.27	21.06
12.0-13.0	2379.7	56.5	398.4	3.48	24.54
13.0-14.0	2325.8	59.5	457.9	3.67	28.21
14.0-15.0	2263.6	62.2	520.1	3.83	32.04
15.0-16.0	2193.5	64.3	584.3	3.96	36.00
16.0-17.0	2116.1	65.9	650.3	4.06	40.06
17.0-18.0	2033.0	67.0	717.3	4.13	44.19
18.0-19.0	1943.7	67.6	784.9	4.17	48.36
19.0-20.0	1846.5	67.6	852.5	4.16	52.52
20.0-21.0	1741.5	66.9	919.4	4.12	56.64
21.0-22.0	1628.8	65.5	984.9	4.03	60.68
22.0-23.0	1508.9	63.3	1048.2	3.90	64.58
23.0-24.0	1383.4	60.5	1108.7	3.73	68.30
24.0-25.0	1253.6	57.0	1165.7	3.51	71.82
25.0-26.0	1121.7	53.0	1218.6	3.26	75.08
26.0-27.0	991.7	48.5	1267.2	2.99	78.07
27.0-28.0	865.2	43.8	1311.0	2.70	80.77
28.0-29.0	744.2	38.9	1349.9	2.40	83.17
29.0-30.0	633.1	34.2	1384.1	2.11	85.27
30.0-31.0	533.8	29.7	1413.8	1.83	87.10
31.0-32.0	445.8	25.5	1439.4	1.57	88.68
32.0-33.0	369.7	21.8	1461.1	1.34	90.02
33.0-34.0	305.4	18.5	1479.6	1.14	91.16
34.0-35.0	251.1	15.6	1495.2	0.96	92.12
35.0-36.0	204.8	13.0	1508.3	0.80	92.92

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	165.9	10.8	1519.1	0.67	93.59
37.0-38.0	134.2	9.0	1528.0	0.55	94.14
38.0-39.0	109.0	7.4	1535.5	0.46	94.60
39.0-40.0	89.8	6.3	1541.7	0.39	94.99
40.0-41.0	75.4	5.4	1547.1	0.33	95.32
41.0-42.0	65.0	4.7	1551.8	0.29	95.61
42.0-43.0	57.4	4.3	1556.1	0.26	95.87
43.0-44.0	51.7	3.9	1560.0	0.24	96.11
44.0-45.0	47.2	3.6	1563.6	0.22	96.33
45.0-46.0	43.5	3.4	1567.0	0.21	96.54
46.0-47.0	40.5	3.2	1570.2	0.20	96.74
47.0-48.0	37.8	3.1	1573.3	0.19	96.93
48.0-49.0	35.4	2.9	1576.2	0.18	97.11
49.0-50.0	33.2	2.8	1579.0	0.17	97.28
50.0-51.0	31.2	2.6	1581.6	0.16	97.44
51.0-52.0	29.4	2.5	1584.1	0.16	97.60
52.0-53.0	27.8	2.4	1586.6	0.15	97.75
53.0-54.0	26.3	2.3	1588.9	0.14	97.89
54.0-55.0	25.0	2.2	1591.1	0.14	98.03
55.0-56.0	23.8	2.2	1593.3	0.13	98.16
56.0-57.0	22.9	2.1	1595.4	0.13	98.29
57.0-58.0	22.1	2.0	1597.4	0.13	98.41
58.0-59.0	21.2	2.0	1599.4	0.12	98.54
59.0-60.0	20.3	1.9	1601.3	0.12	98.65
60.0-61.0	19.4	1.9	1603.1	0.11	98.77
61.0-62.0	18.5	1.8	1604.9	0.11	98.88
62.0-63.0	17.5	1.7	1606.6	0.10	98.98
63.0-64.0	16.6	1.6	1608.3	0.10	99.08
64.0-65.0	15.5	1.5	1609.8	0.09	99.18
65.0-66.0	14.4	1.4	1611.2	0.09	99.27
66.0-67.0	13.4	1.3	1612.6	0.08	99.35
67.0-68.0	12.3	1.2	1613.8	0.08	99.43
68.0-69.0	11.3	1.1	1615.0	0.07	99.50
69.0-70.0	10.1	1.0	1616.0	0.06	99.56
70.0-71.0	9.1	0.9	1616.9	0.06	99.62
71.0-72.0	8.2	0.9	1617.8	0.05	99.67

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	2514.2	2514.2								
G1.0	2513.1	2515.2								
G2.0	2513.8	2516.7								
G3.0	2517.8	2518.1								
G4.0	2521.7	2519.2								
G5.0	2524.5	2520.1								
G6.0	2525.2	2518.5								
G7.0	2523.6	2514.9								
G8.0	2520.1	2505.5								
G9.0	2513.1	2487.5								
G10.0	2498.0	2456.3								
G11.0	2475.0	2414.3								
G12.0	2444.5	2364.4								
G13.0	2403.7	2306.2								
G14.0	2353.8	2239.7								
G15.0	2295.3	2165.5								
G16.0	2228.8	2084.3								
G17.0	2154.6	1996.8								
G18.0	2074.9	1905.6								
G19.0	1988.5	1805.7								
G20.0	1894.1	1697.8								
G21.0	1791.9	1582.1								
G22.0	1680.3	1461.1								
G23.0	1557.3	1336.8								
G24.0	1429.9	1209.7								
G25.0	1297.9	1076.8								
G26.0	1166.8	945.2								
G27.0	1036.8	818.1								
G28.0	908.7	697.0								
G29.0	782.3	588.8								
G30.0	666.5	494.9								
G31.0	562.3	411.3								
G32.0	470.7	339.0								
G33.0	390.6	278.4								
G34.0	324.3	228.1								
G35.0	265.3	186.7								
G36.0	215.1	152.1								

C Plane (°):0.0-180.0: 180.0

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Temperature:

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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	173.4	123.1								
G38.0	140.3	99.8								
G39.0	113.6	82.5								
G40.0	93.0	70.2								
G41.0	77.5	61.1								
G42.0	66.4	54.8								
G43.0	58.3	49.9								
G44.0	52.4	46.0								
G45.0	47.8	42.5								
G46.0	44.2	39.6								
G47.0	41.1	36.9								
G48.0	38.5	34.7								
G49.0	35.8	32.7								
G50.0	33.6	30.9								
G51.0	31.6	28.8								
G52.0	29.8	27.3								
G53.0	28.0	26.1								
G54.0	26.4	24.8								
G55.0	25.2	23.6								
G56.0	24.0	22.4								
G57.0	23.4	21.7								
G58.0	22.4	20.8								
G59.0	21.4	20.0								
G60.0	20.7	19.0								
G61.0	20.0	18.0								
G62.0	19.0	16.9								
G63.0	18.0	15.9								
G64.0	17.2	15.1								
G65.0	15.9	13.7								
G66.0	15.1	12.7								
G67.0	14.0	11.6								
G68.0	13.1	10.5								
G69.0	11.8	9.6								
G70.0	10.8	8.4								
G71.0	9.6	7.7								
G72.0	8.7	6.7								
G73.0	7.6	5.9								

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
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Inspector:

Unit: cd

Inspector: