

Report No.:

Test Time: 2025-11-26 20:01

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 52.03523 24D

Luminous Width (mm): -30

Voltage: 235.6 V

Power: 3.70 W

Luminous Length (mm): -30

Luminous Height (mm): -25

Current: 0.028 A

Power Factor: 0.558

Photometric Results

CIE Class: Direct

Measurement Flux: 170.5 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H24.3

Vertical Diffuse Angle(50%): V24.3

Luminaire Efficacy Rating (LER): 46.14

Max. Intensity: 693.78 cd

S/MH(C0/C180): 0.41

Total Rated Lamp Lumens: 170.5 lm

Efficiency: 100%

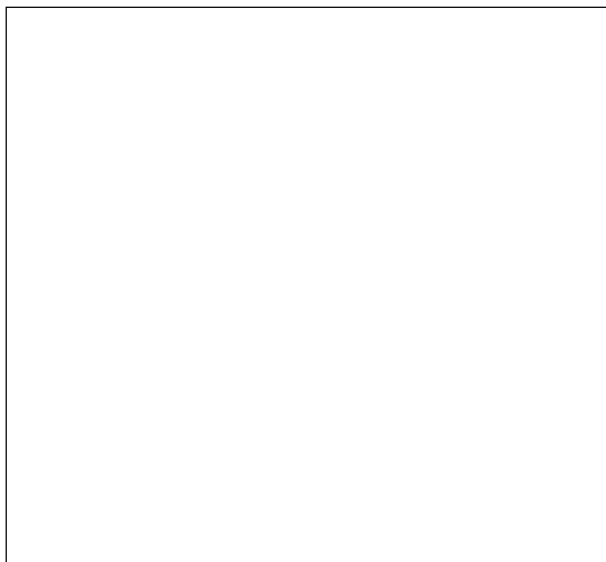
Upward Ratio: 0%

Central Intensity: 689.51 cd

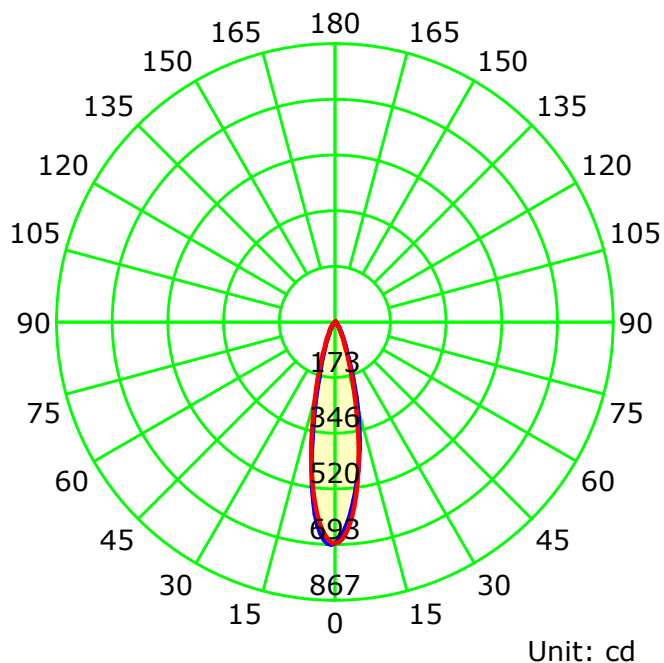
Pos of Max. Intensity: H180 V1

S/MH(C90/C270): 0.41

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

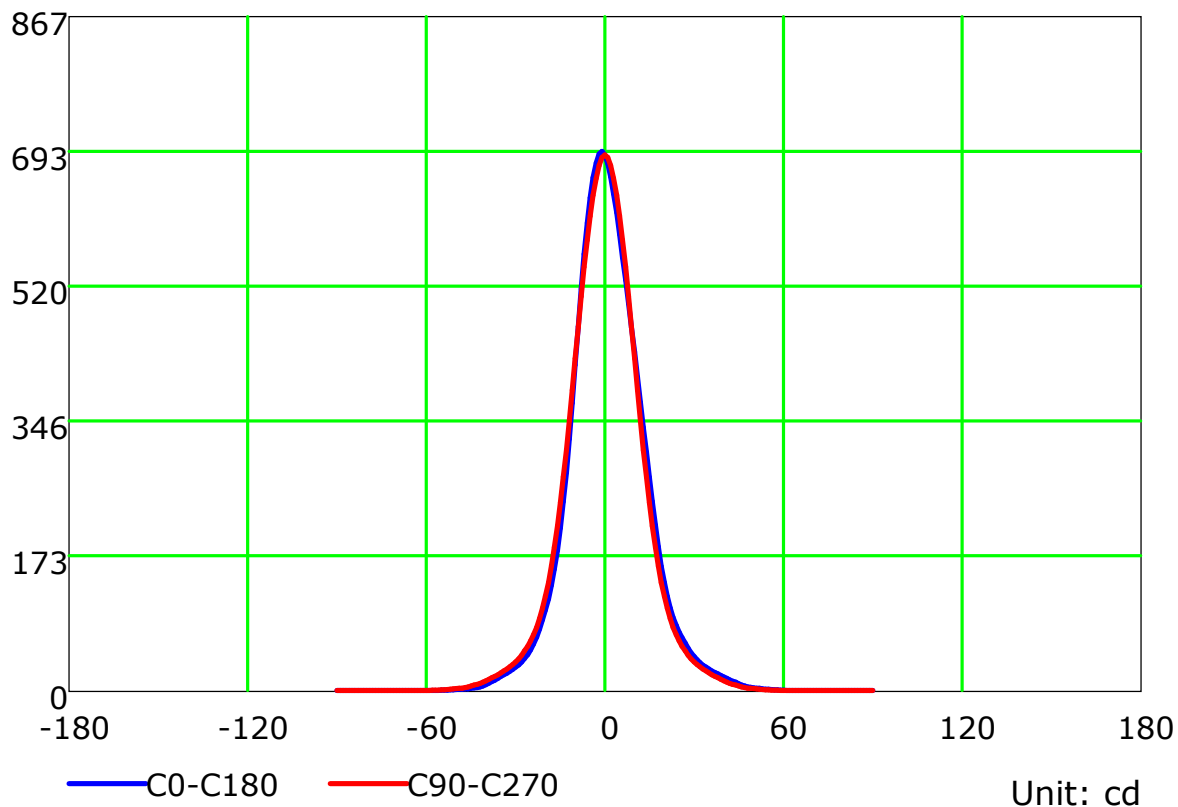
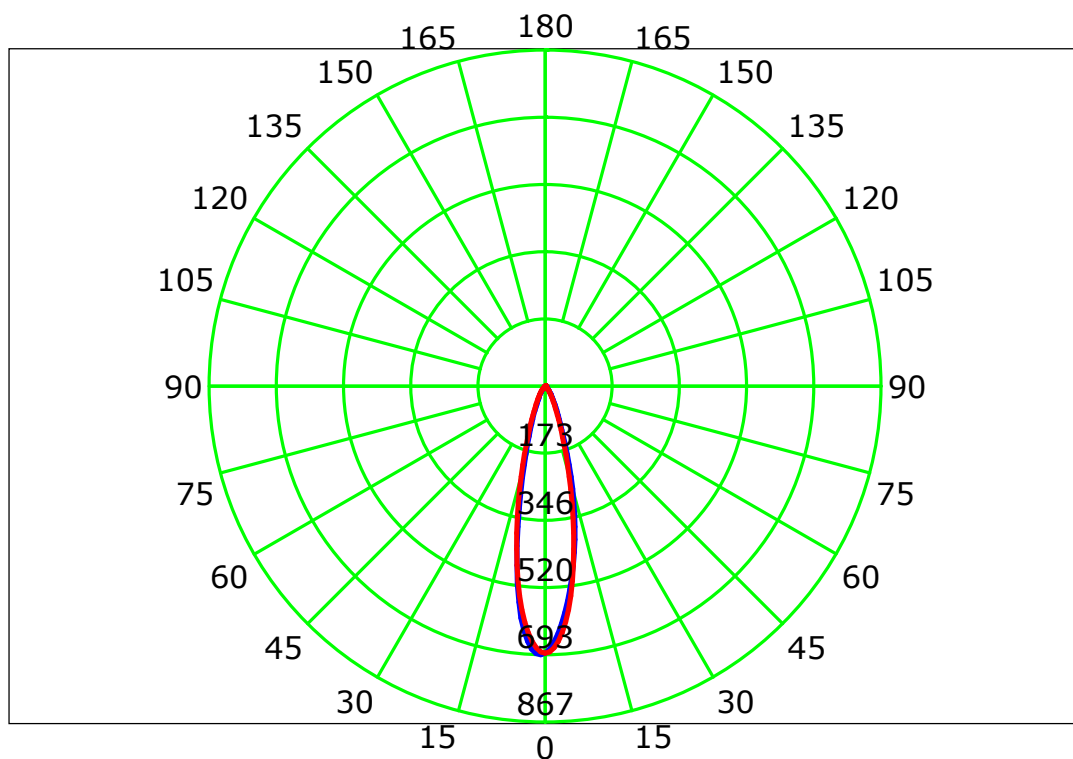
Test Device: CHL-6E

Distance: 3.030 m

Humidity:

Inspector:

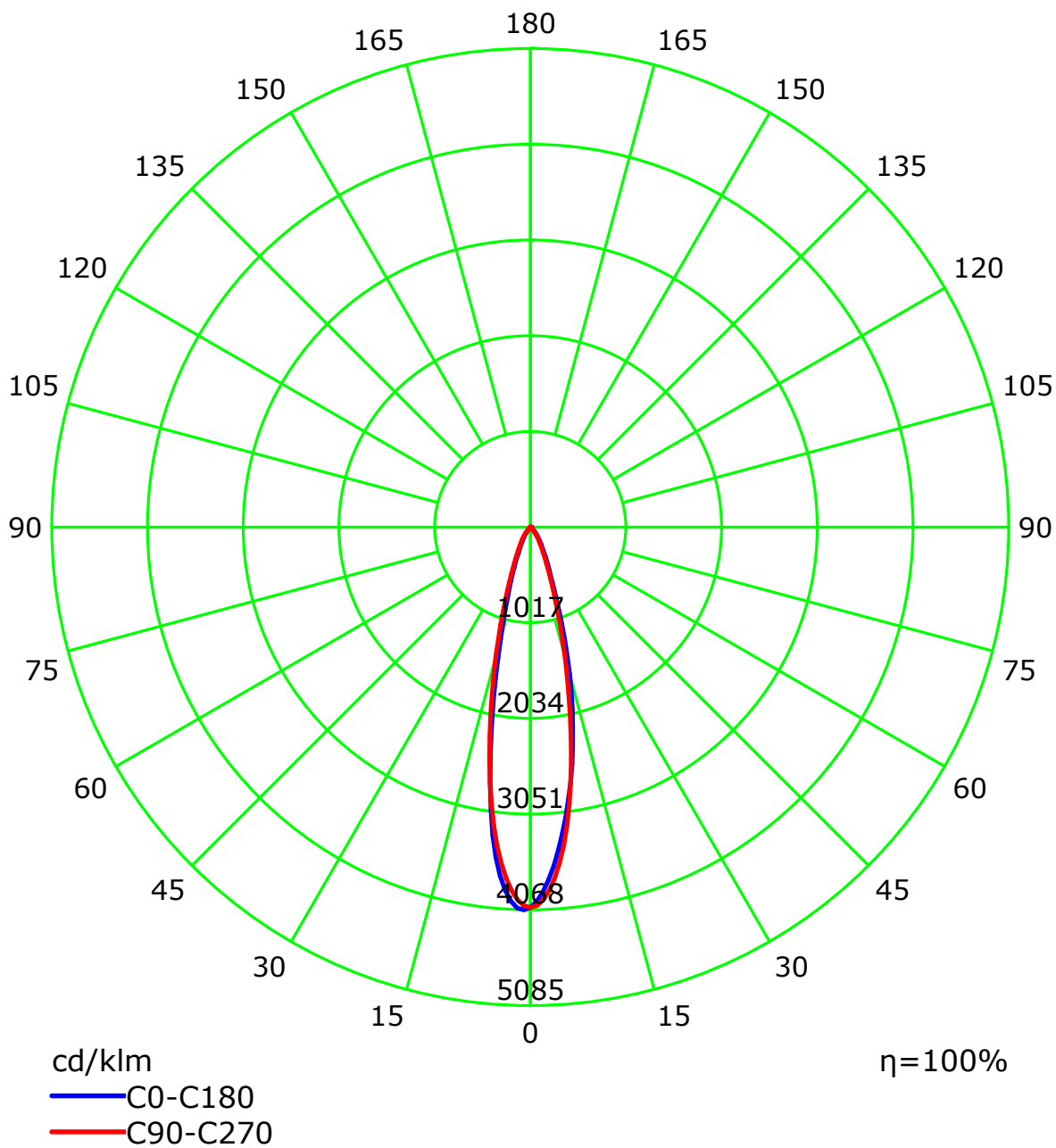
Luminous Intensity Distribution Curve



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: 3.030 m
Humidity:
Inspector:

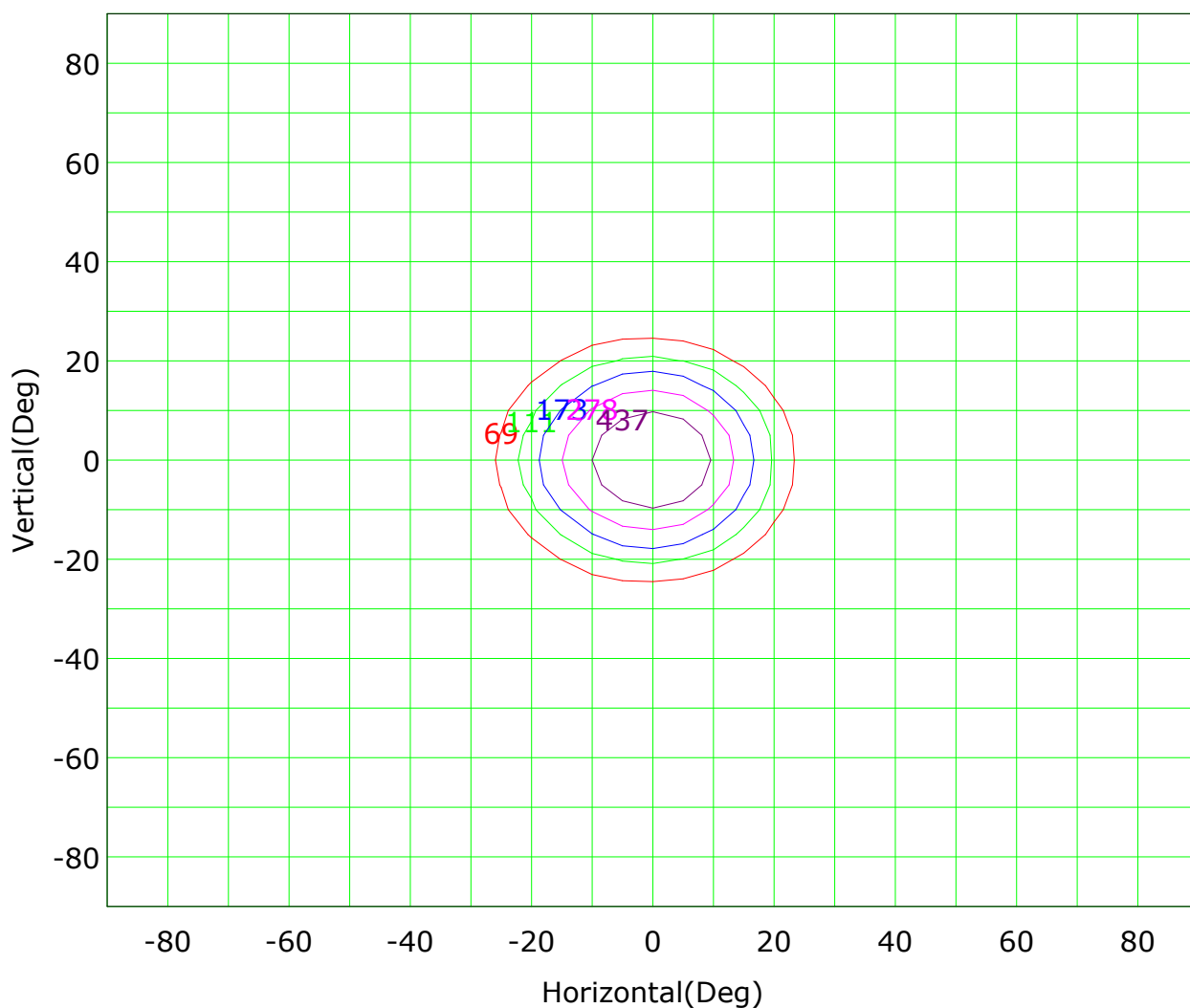
Luminous Intensity Distribution Curve(cd/klm)



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: 3.030 m
Humidity:
Inspector:

Isocandela (rectangle)



Imax (100%): 694 cd

(10%):	69 cd	(16%):	111 cd
(25%):	173 cd	(40%):	278 cd
(63%):	437 cd	(100%):	694 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

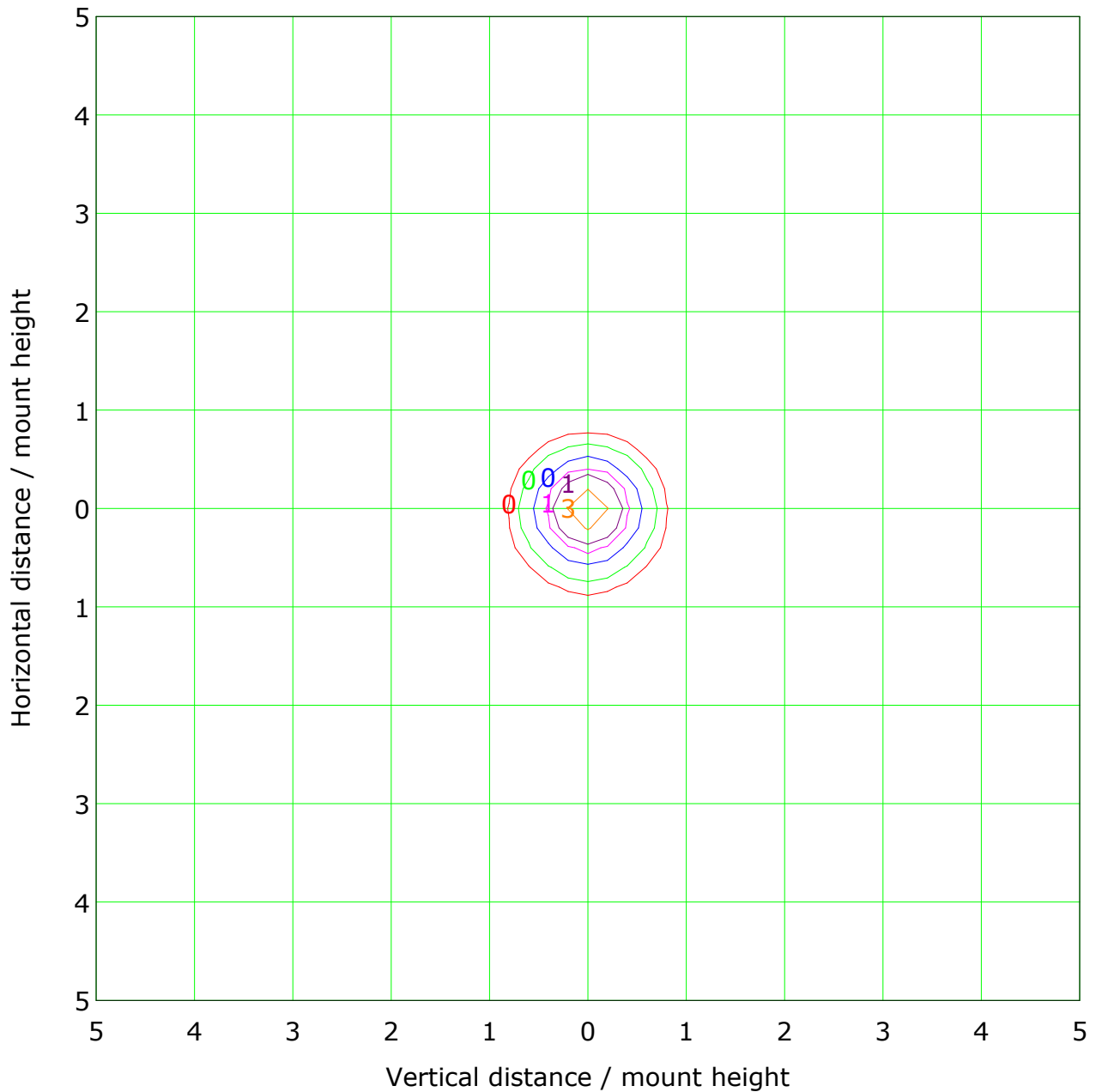
Test Device: CHL-6E

Distance: 3.030 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 6.9 lx

(1%): 0.1 lx	(2%): 0.1 lx
(5%): 0.3 lx	(10%): 0.7 lx
(20%): 1.4 lx	(50%): 3.5 lx
(100%): 6.9 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

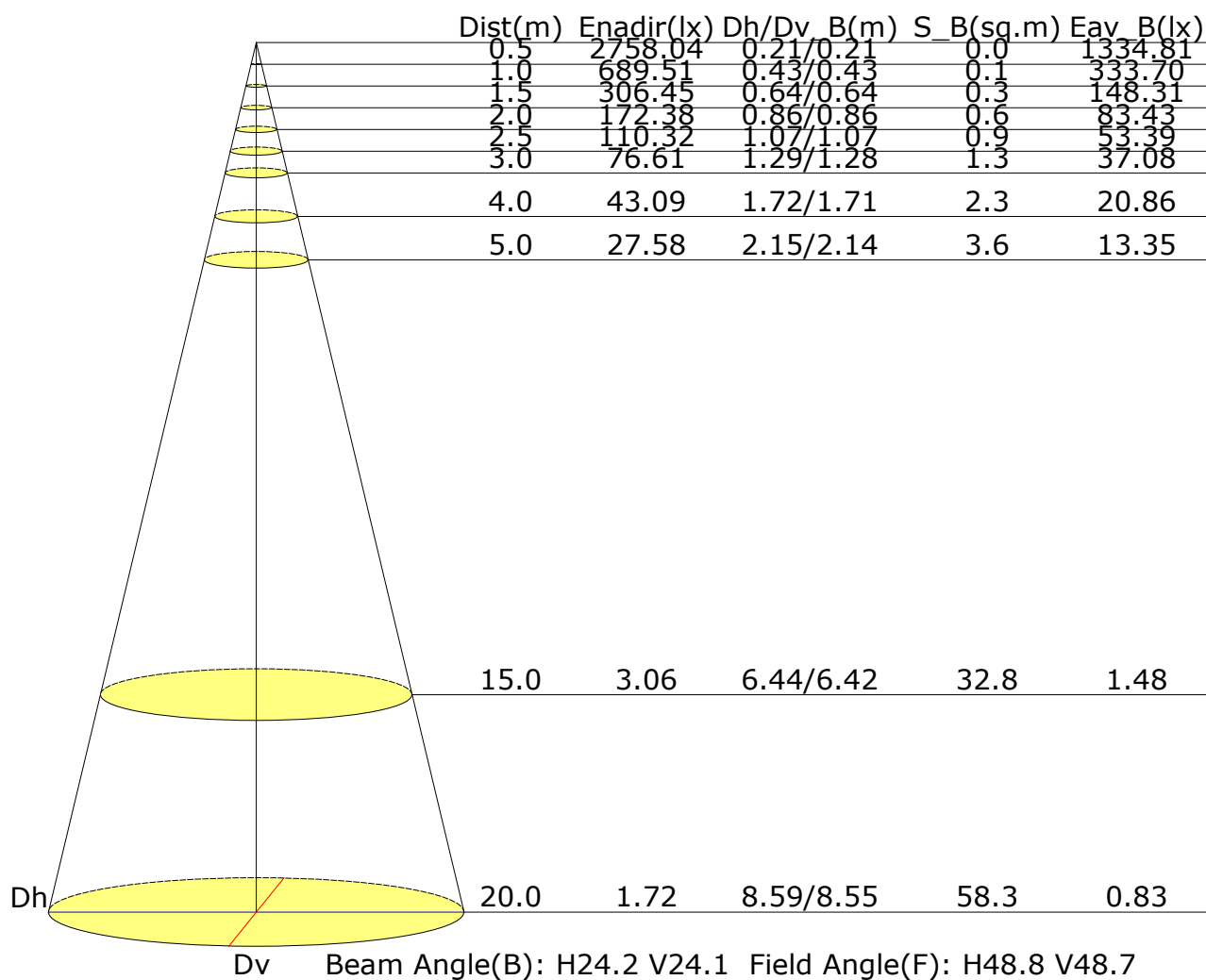
Test Device: CHL-6E

Distance: 3.030 m

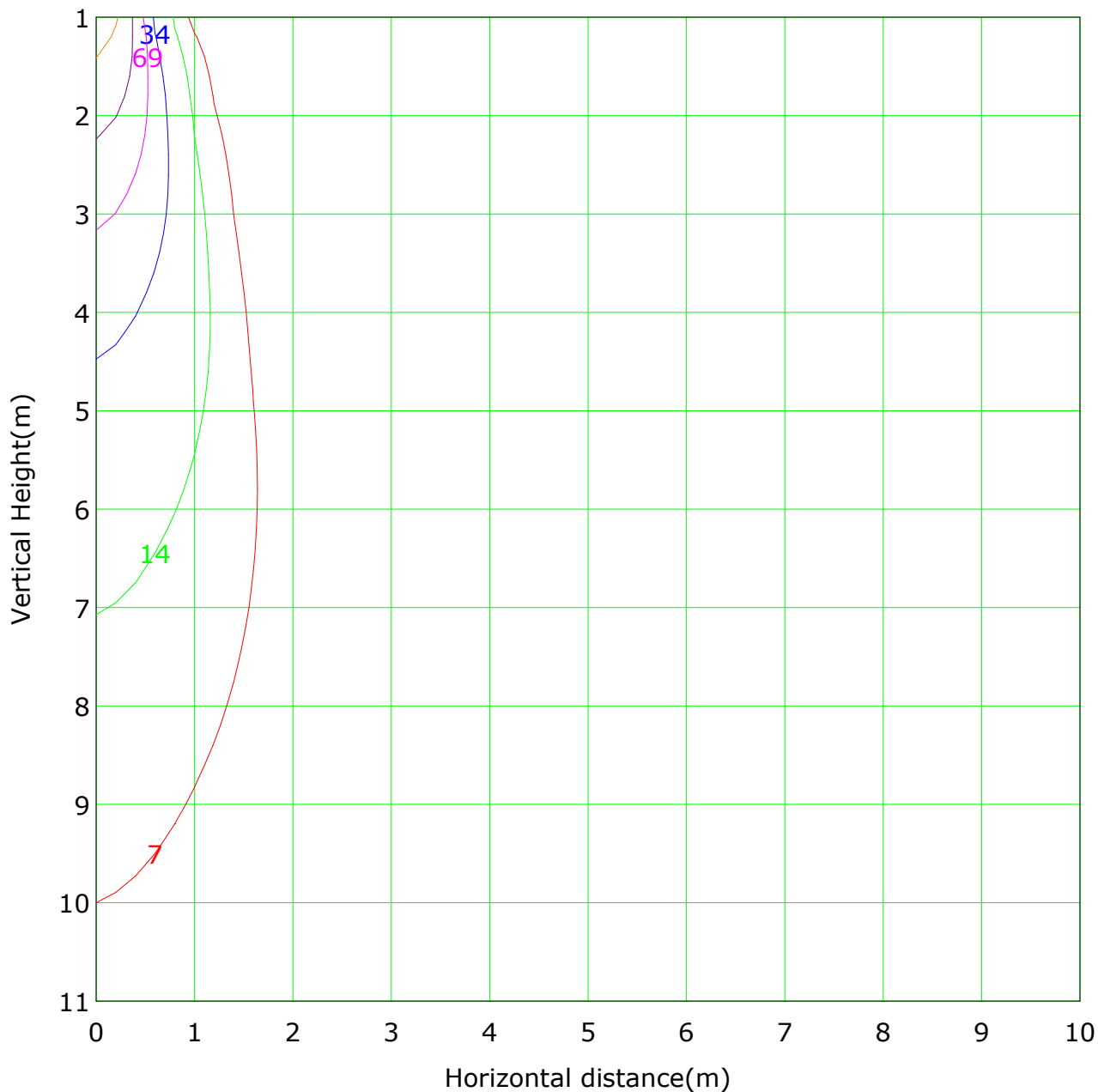
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



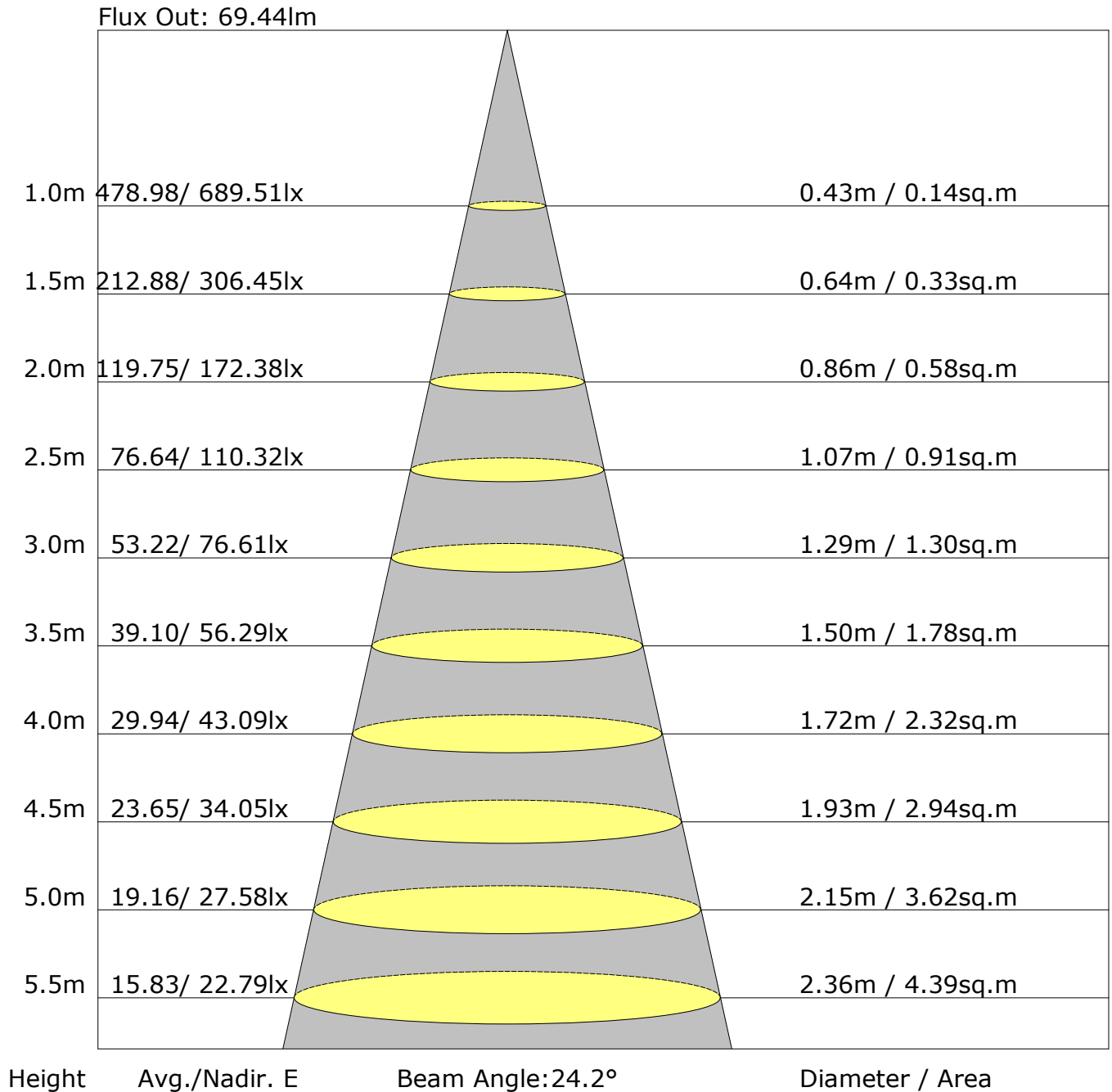
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 689.5 lx
— (1%): 6.9 lx — (2%): 13.8 lx
— (5%): 34.5 lx — (10%): 69.0 lx
— (20%): 137.9 lx — (50%): 344.8 lx
— (100%): 689.5 lx

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: 3.030 m
Humidity:
Inspector:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.030 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	12.6	13.2	12.8	13.4	13.6	11.6	12.2	11.8	12.4	12.6
3H	12.4	13.0	12.7	13.3	13.5	11.4	12.0	11.7	12.3	12.5
4H	12.4	12.9	12.7	13.2	13.5	11.4	11.9	11.7	12.2	12.4
6H	12.3	12.8	12.6	13.1	13.4	11.3	11.8	11.6	12.1	12.4
8H	12.3	12.8	12.6	13.1	13.4	11.2	11.7	11.6	12.0	12.3
12H	12.2	12.7	12.6	13.0	13.3	11.2	11.7	11.5	12.0	12.3
X=4H Y=2H	12.4	12.9	12.7	13.2	13.5	11.4	11.9	11.7	12.2	12.4
3H	12.2	12.7	12.6	13.0	13.3	11.2	11.7	11.6	12.0	12.3
4H	12.1	12.6	12.5	12.9	13.3	11.1	11.6	11.5	11.9	12.2
6H	12.1	12.4	12.5	12.8	13.2	11.0	11.4	11.4	11.8	12.2
8H	12.0	12.4	12.4	12.7	13.2	11.0	11.3	11.4	11.7	12.1
12H	12.0	12.3	12.4	12.7	13.1	10.9	11.3	11.4	11.7	12.1
X=8H Y=4H	12.0	12.4	12.4	12.7	13.2	11.0	11.3	11.4	11.7	12.1
6H	11.9	12.2	12.4	12.6	13.1	10.9	11.2	11.3	11.6	12.1
8H	11.9	12.1	12.3	12.6	13.0	10.8	11.1	11.3	11.5	12.0
12H	11.8	12.0	12.3	12.5	13.0	10.8	11.0	11.3	11.5	12.0
X=12H Y=4H	12.0	12.3	12.4	12.7	13.1	10.9	11.3	11.4	11.7	12.1
6H	11.9	12.1	12.3	12.6	13.0	10.8	11.1	11.3	11.5	12.0
8H	11.8	12.0	12.3	12.5	13.0	10.8	11.0	11.3	11.5	12.0
Variations with the observer position at spacings:										
S=1.0H	+4.2/-9.8					+4.3/-11.6				
S=1.5H	+7.0/-26.4					+7.1/-28.2				
S=2.0H	+9.0/-1.\$					+9.1/-1.\$				

Calculate in accordance with CIE Pub.117. The table is revised with 171lm ($8\log(F/F_0) = -6.1$).

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: 3.030 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	90	52.6
	FL (0°-30°)	78	45.7
	FM (30°-60°)	12	6.9
	FH (60°-80°)	0	0.0
	FVH (80°-90°)	0	0.0
	BACK LIGHT	81	47.4
	BL (0°-30°)	72	42.4
	BM (30°-60°)	9	5.1
	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)	B0 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B0 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: 3.030 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	687.8	0.7	0.7	0.39	0.39
1.0-2.0	681.0	2.0	2.6	1.15	1.53
2.0-3.0	667.7	3.2	5.8	1.87	3.41
3.0-4.0	648.5	4.3	10.1	2.55	5.95
4.0-5.0	624.2	5.4	15.5	3.15	9.10
5.0-6.0	595.3	6.3	21.8	3.67	12.77
6.0-7.0	562.5	7.0	28.8	4.09	16.87
7.0-8.0	526.4	7.5	36.3	4.42	21.28
8.0-9.0	487.8	7.9	44.2	4.64	25.92
9.0-10.0	447.8	8.1	52.3	4.75	30.67
10.0-11.0	407.1	8.1	60.4	4.77	35.44
11.0-12.0	367.0	8.0	68.5	4.71	40.15
12.0-13.0	328.6	7.8	76.3	4.57	44.72
13.0-14.0	292.3	7.5	83.7	4.39	49.11
14.0-15.0	258.5	7.1	90.8	4.16	53.27
15.0-16.0	227.1	6.7	97.5	3.90	57.18
16.0-17.0	198.4	6.2	103.7	3.62	60.80
17.0-18.0	172.4	5.7	109.4	3.33	64.13
18.0-19.0	149.7	5.2	114.6	3.05	67.19
19.0-20.0	130.2	4.8	119.3	2.79	69.98
20.0-21.0	113.8	4.4	123.7	2.56	72.54
21.0-22.0	99.6	4.0	127.7	2.35	74.89
22.0-23.0	87.2	3.7	131.4	2.15	77.04
23.0-24.0	76.7	3.4	134.7	1.97	79.00
24.0-25.0	67.9	3.1	137.8	1.81	80.81
25.0-26.0	60.6	2.9	140.7	1.68	82.49
26.0-27.0	54.1	2.6	143.3	1.55	84.04
27.0-28.0	48.4	2.5	145.8	1.44	85.48
28.0-29.0	43.4	2.3	148.0	1.33	86.81
29.0-30.0	39.1	2.1	150.1	1.24	88.05
30.0-31.0	35.3	2.0	152.1	1.15	89.20
31.0-32.0	32.0	1.8	153.9	1.08	90.28
32.0-33.0	29.1	1.7	155.7	1.01	91.28
33.0-34.0	26.4	1.6	157.3	0.94	92.22
34.0-35.0	24.1	1.5	158.7	0.88	93.10
35.0-36.0	21.8	1.4	160.1	0.81	93.91

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: 3.030 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	19.4	1.3	161.4	0.74	94.65
37.0-38.0	17.4	1.2	162.6	0.68	95.33
38.0-39.0	15.6	1.1	163.6	0.62	95.96
39.0-40.0	13.6	0.9	164.6	0.56	96.51
40.0-41.0	11.8	0.8	165.4	0.49	97.01
41.0-42.0	10.2	0.7	166.2	0.43	97.44
42.0-43.0	8.7	0.6	166.8	0.38	97.82
43.0-44.0	7.6	0.6	167.4	0.34	98.15
44.0-45.0	6.5	0.5	167.9	0.29	98.45
45.0-46.0	5.4	0.4	168.3	0.25	98.70
46.0-47.0	4.5	0.4	168.7	0.21	98.91
47.0-48.0	3.7	0.3	169.0	0.17	99.08
48.0-49.0	3.2	0.3	169.2	0.15	99.23
49.0-50.0	2.8	0.2	169.4	0.14	99.37
50.0-51.0	2.4	0.2	169.7	0.12	99.49
51.0-52.0	2.1	0.2	169.8	0.11	99.59
52.0-53.0	1.8	0.2	170.0	0.09	99.69
53.0-54.0	1.4	0.1	170.1	0.07	99.76
54.0-55.0	1.2	0.1	170.2	0.06	99.82
55.0-56.0	1.0	0.1	170.3	0.05	99.87
56.0-57.0	0.7	0.1	170.4	0.04	99.91
57.0-58.0	0.5	0.0	170.4	0.03	99.94
58.0-59.0	0.4	0.0	170.5	0.02	99.96
59.0-60.0	0.3	0.0	170.5	0.02	99.98
60.0-61.0	0.2	0.0	170.5	0.01	99.99
61.0-62.0	0.1	0.0	170.5	0.00	99.99
62.0-63.0	0.1	0.0	170.5	0.00	100.00
63.0-64.0	0.0	0.0	170.5	0.00	100.00
64.0-65.0	0.0	0.0	170.5	0.00	100.00
65.0-66.0	0.0	0.0	170.5	0.00	100.00
66.0-67.0	0.0	0.0	170.5	0.00	100.00
67.0-68.0	0.0	0.0	170.5	0.00	100.00
68.0-69.0	0.0	0.0	170.5	0.00	100.00
69.0-70.0	0.0	0.0	170.5	0.00	100.00
70.0-71.0	0.0	0.0	170.5	0.00	100.00
71.0-72.0	0.0	0.0	170.5	0.00	100.00

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: 3.030 m
Humidity:
Inspector:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.030 m
Humidity:
Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C180.0								
G0.0	689.5	689.5								
G1.0	678.4	693.8								
G2.0	661.4	690.6								
G3.0	639.8	679.0								
G4.0	615.1	660.1								
G5.0	587.3	634.4								
G6.0	557.8	601.7								
G7.0	528.5	561.9								
G8.0	498.1	517.0								
G9.0	467.2	468.8								
G10.0	435.7	419.3								
G11.0	403.0	370.2								
G12.0	370.9	323.9								
G13.0	338.7	280.9								
G14.0	306.7	243.1								
G15.0	274.6	209.5								
G16.0	243.6	180.7								
G17.0	212.9	156.3								
G18.0	185.0	135.6								
G19.0	160.2	117.9								
G20.0	139.1	103.5								
G21.0	121.3	91.3								
G22.0	106.3	79.4								
G23.0	94.0	69.1								
G24.0	83.7	59.9								
G25.0	75.3	52.6								
G26.0	68.0	46.3								
G27.0	61.0	41.2								
G28.0	54.6	36.8								
G29.0	48.8	33.3								
G30.0	43.8	30.3								
G31.0	39.6	27.4								
G32.0	36.2	25.0								
G33.0	32.9	22.4								
G34.0	30.1	20.2								
G35.0	27.7	18.3								
G36.0	25.4	15.7								

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: 3.030 m

Humidity:

Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	23.1	13.4								
G38.0	21.5	11.7								
G39.0	19.6	9.6								
G40.0	17.6	7.6								
G41.0	16.0	6.1								
G42.0	13.8	4.7								
G43.0	12.2	4.0								
G44.0	10.8	3.5								
G45.0	9.0	2.9								
G46.0	7.3	2.4								
G47.0	5.9	2.3								
G48.0	4.9	1.7								
G49.0	4.4	1.7								
G50.0	3.7	1.5								
G51.0	3.2	1.2								
G52.0	3.0	0.9								
G53.0	2.4	0.8								
G54.0	2.0	0.5								
G55.0	1.8	0.5								
G56.0	1.4	0.2								
G57.0	1.2	0.0								
G58.0	0.9	0.0								
G59.0	0.8	0.0								
G60.0	0.6	0.0								
G61.0	0.2	0.0								
G62.0	0.2	0.0								
G63.0	0.2	0.0								
G64.0	0.0	0.0								
G65.0	0.0	0.0								
G66.0	0.0	0.0								
G67.0	0.0	0.0								
G68.0	0.0	0.0								
G69.0	0.0	0.0								
G70.0	0.0	0.0								
G71.0	0.0	0.0								
G72.0	0.0	0.0								
G73.0	0.0	0.0								

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

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Gamma Plane (°):0.0-90.0:1.0

Test Device: CHL-6E

Distance: 3.030 m

Humidity:

Inspector:

Unit: cd

Inspector: