

Report No.:

Test Time: 2025-08-07 16:23

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 52.05013 24D

Luminous Width (mm): -47

Current: 0.027 A

Power Factor: 0.562

Luminous Length (mm): -47

Voltage: 229.5 V

Power: 3.50 W

Photometric Results

CIE Class: Direct

Measurement Flux: 289.9 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H34.5

Vertical Diffuse Angle(50%): V34.5

Luminaire Efficacy Rating (LER): 82.87

Max. Intensity: 623.72 cd

S/MH(C0/C180): 0.57

Total Rated Lamp Lumens: 289.9 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 617.29 cd

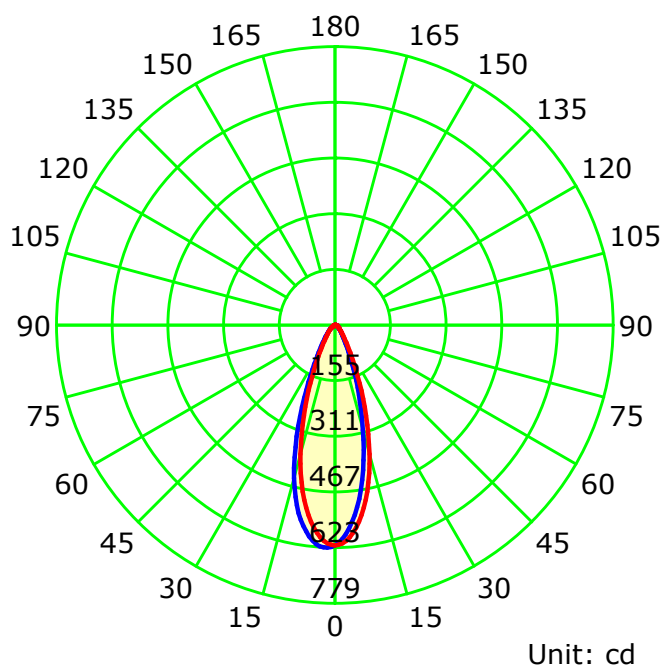
Pos of Max. Intensity: H180 V2

S/MH(C90/C270): 0.57

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

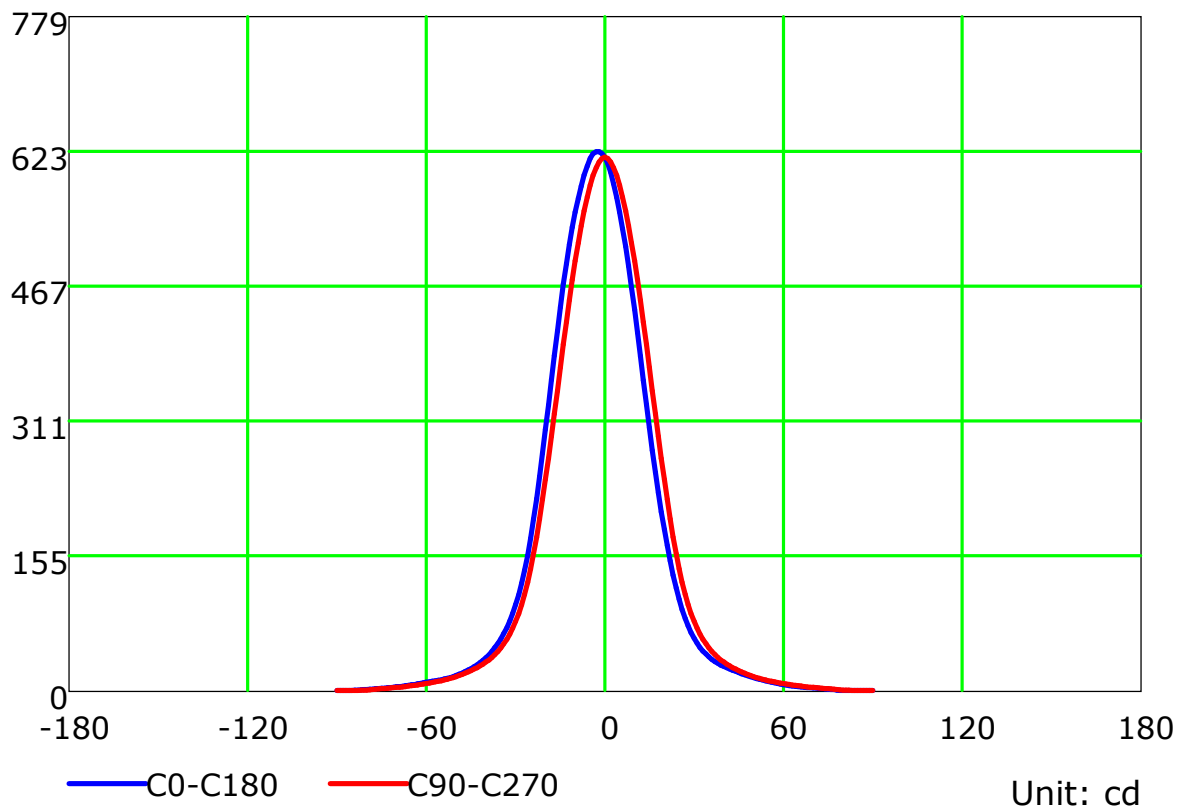
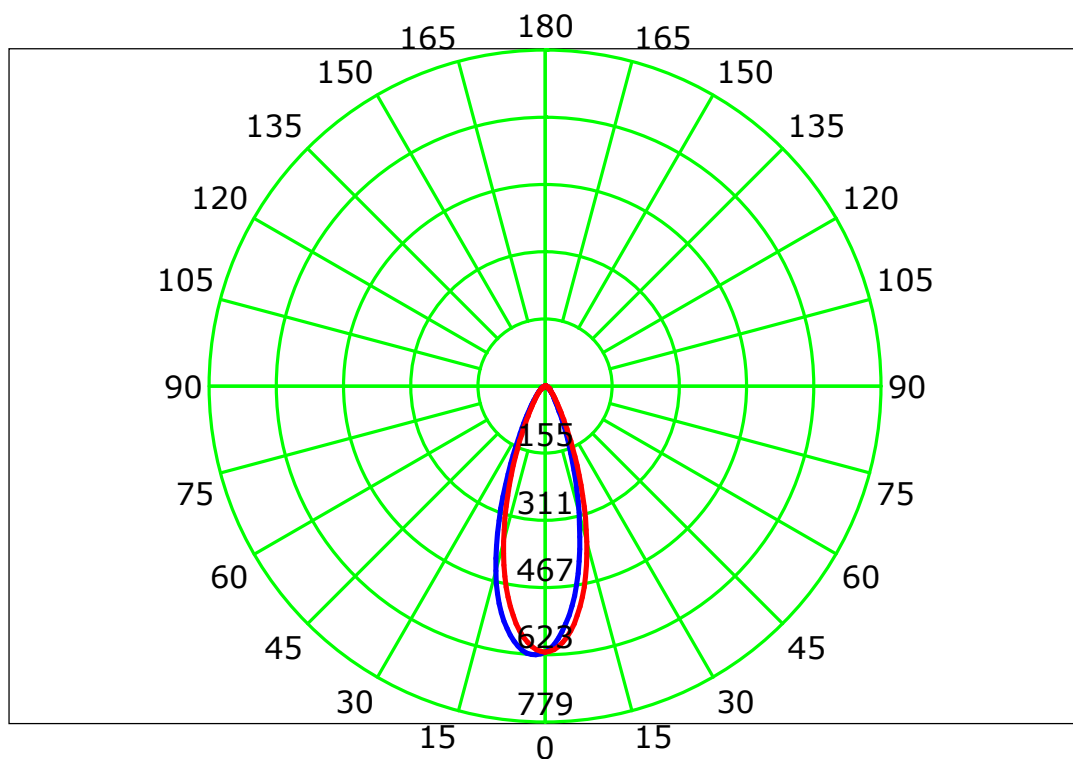
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

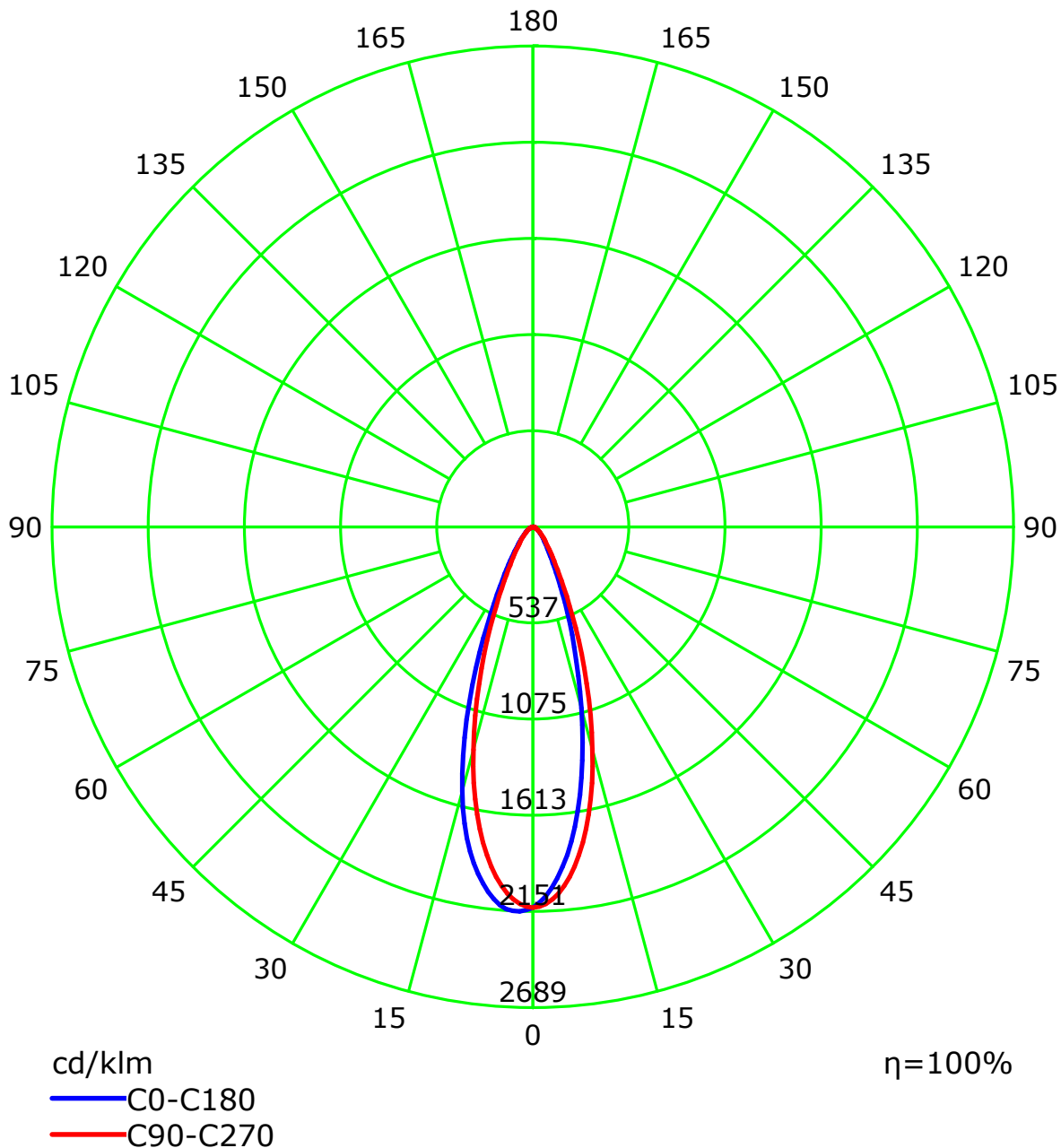
Luminous Intensity Distribution Curve



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:

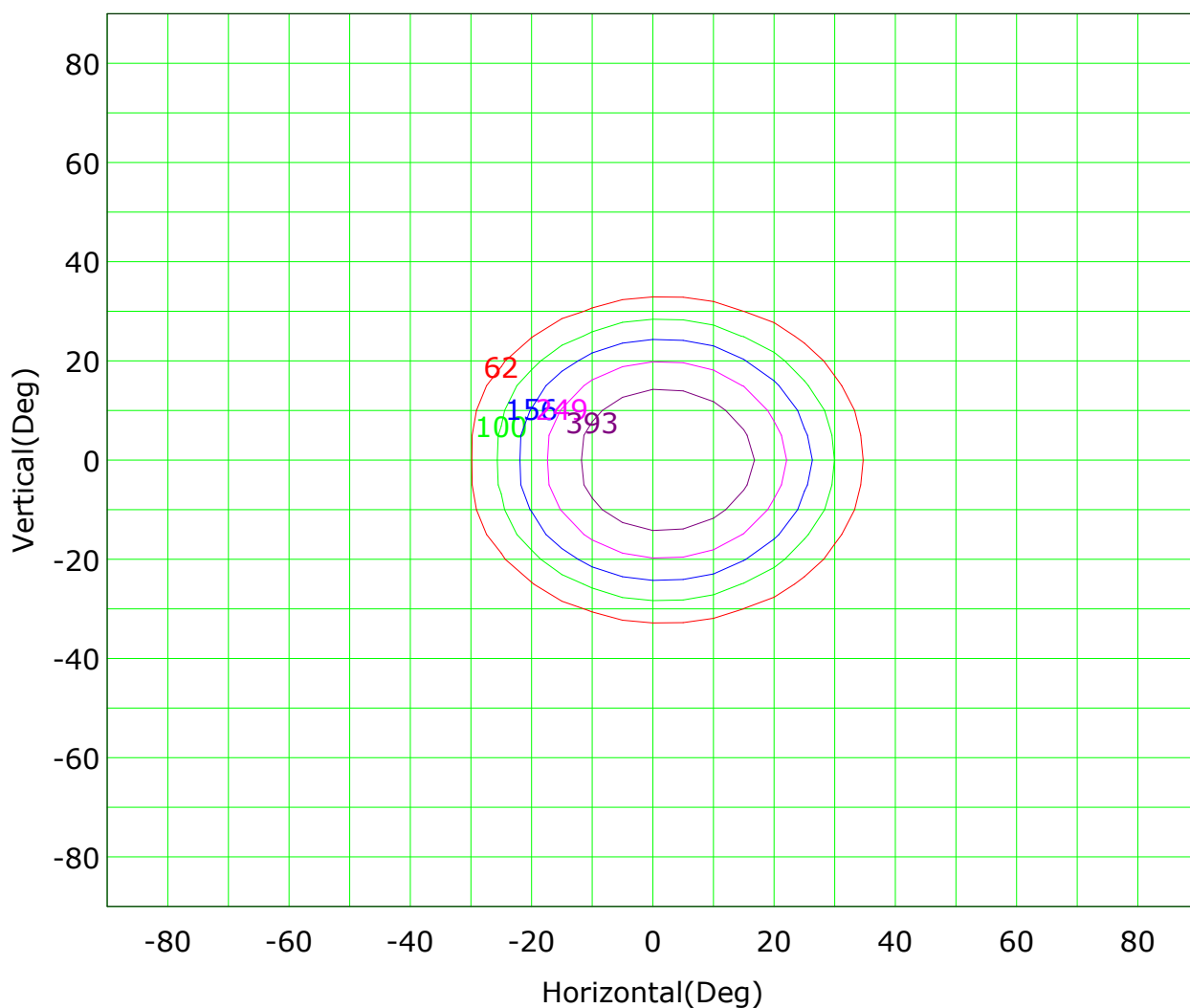
Luminous Intensity Distribution Curve(cd/klm)



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%): 624 cd

(10%):	62 cd	(16%):	100 cd
(25%):	156 cd	(40%):	249 cd
(63%):	393 cd	(100%):	624 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

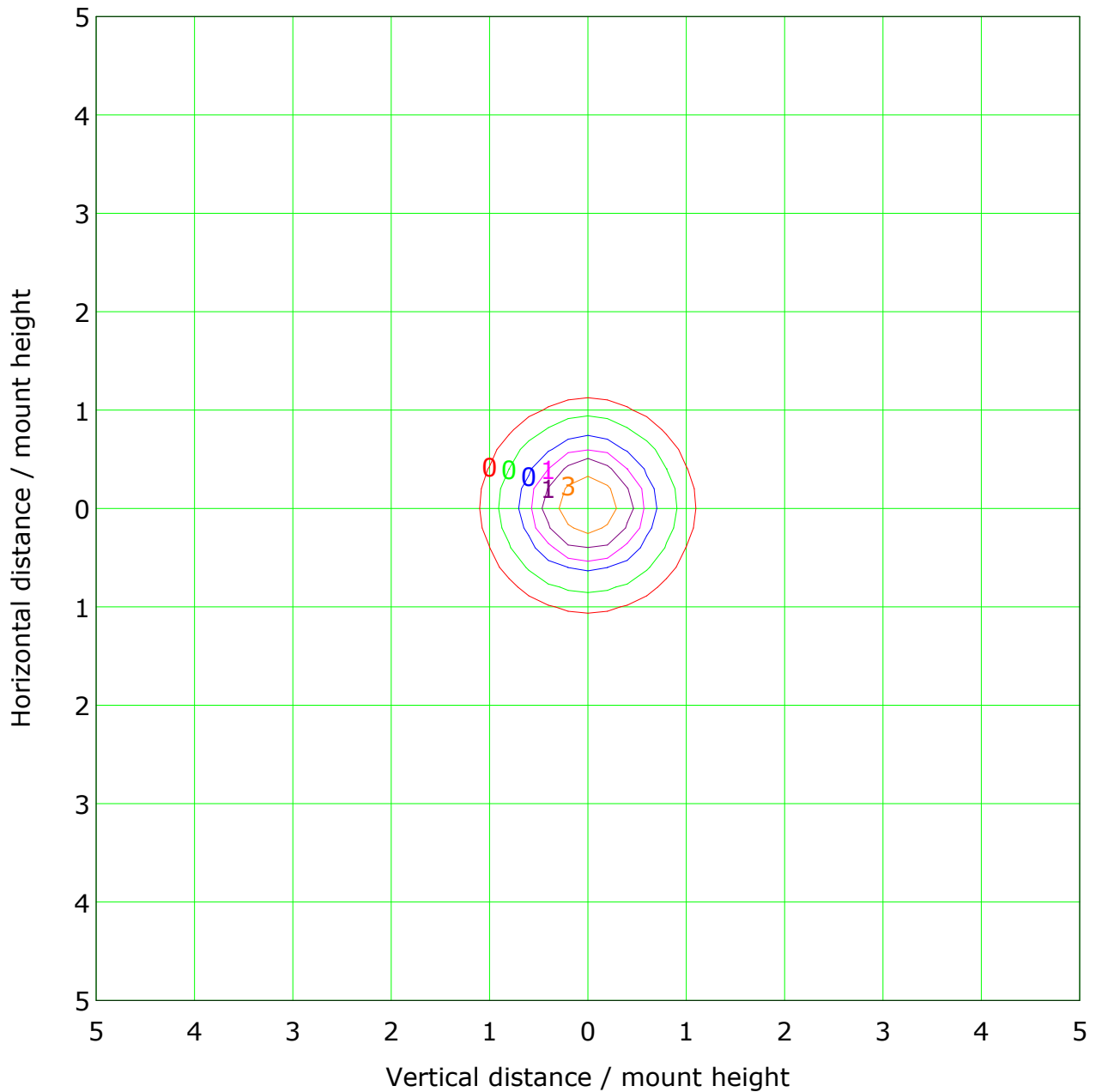
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 6.2 lx

(1%): 0.1 lx	(2%): 0.1 lx
(5%): 0.3 lx	(10%): 0.6 lx
(20%): 1.2 lx	(50%): 3.1 lx
(100%): 6.2 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

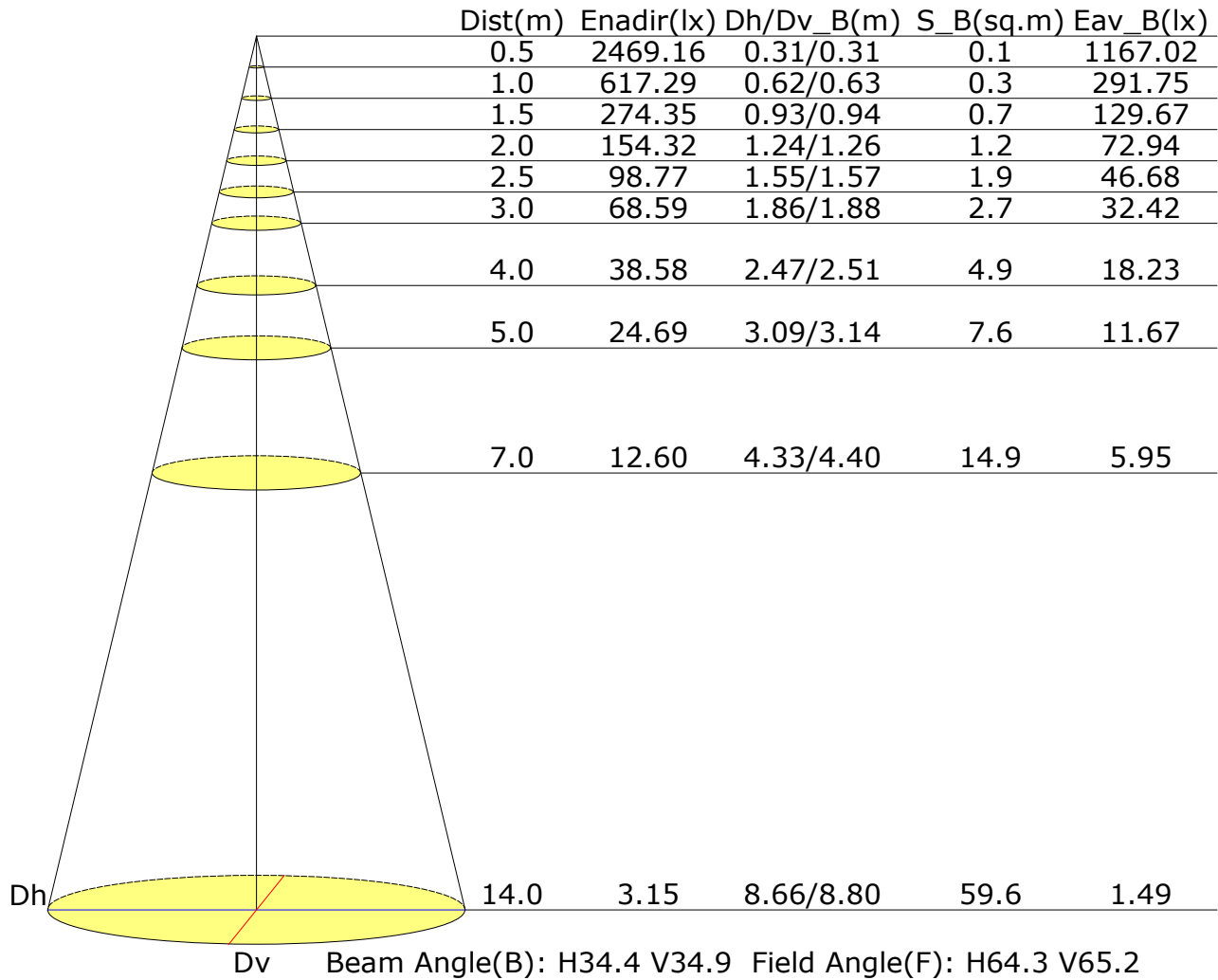
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

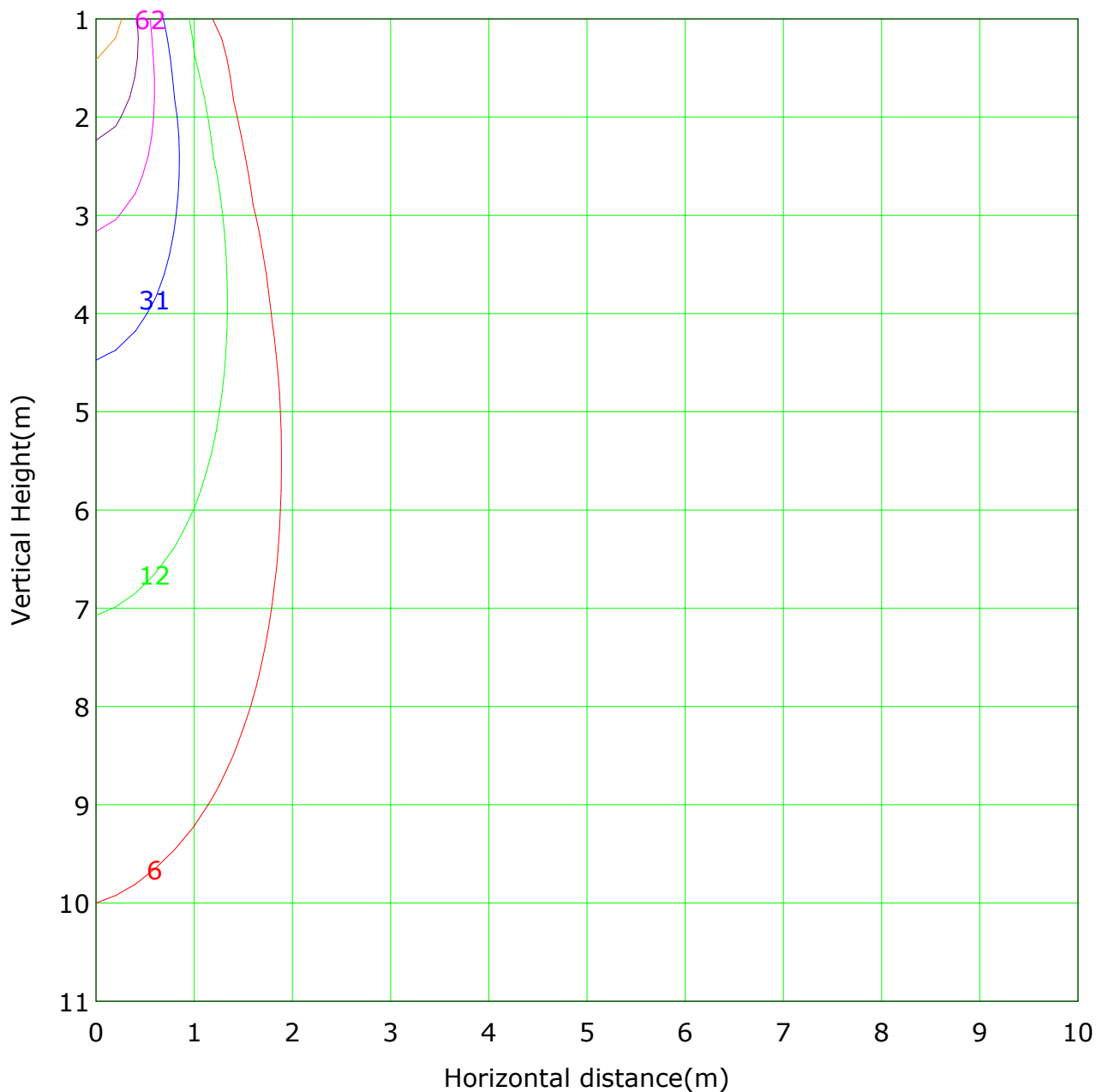
Illuminance at a Distance



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:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 617.3 lx

(1%): 6.2 lx	(2%): 12.3 lx
(5%): 30.9 lx	(10%): 61.7 lx
(20%): 123.5 lx	(50%): 308.6 lx
(100%): 617.3 lx	

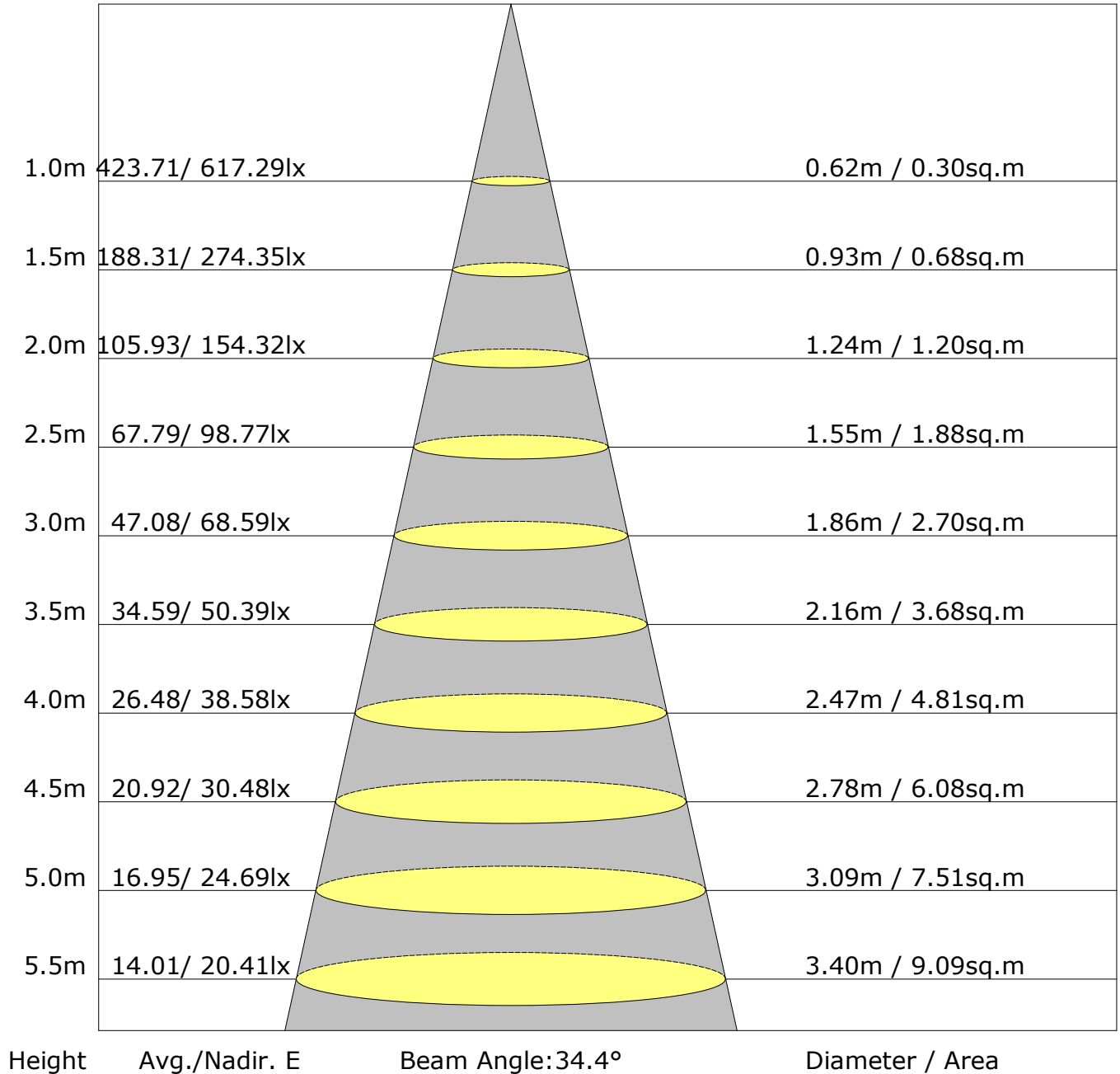
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

Flux Out: 127.32lm



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	16.6	17.4	16.8	17.6	17.8	17.2	18.0	17.4	18.2	18.4
3H	17.0	17.7	17.3	18.0	18.2	17.6	18.4	17.9	18.6	18.9
4H	17.1	17.8	17.4	18.1	18.3	17.8	18.5	18.1	18.7	19.0
6H	17.0	17.7	17.4	18.0	18.3	17.8	18.4	18.1	18.7	19.0
8H	17.0	17.6	17.3	17.9	18.2	17.8	18.4	18.1	18.7	19.0
12H	17.0	17.6	17.3	17.9	18.2	17.7	18.3	18.1	18.6	19.0
X=4H Y=2H	16.8	17.5	17.1	17.8	18.0	17.3	18.0	17.6	18.3	18.6
3H	17.3	17.9	17.7	18.2	18.6	17.9	18.5	18.3	18.8	19.2
4H	17.5	18.0	17.9	18.4	18.7	18.1	18.7	18.5	19.0	19.4
6H	17.5	17.9	17.9	18.3	18.7	18.1	18.6	18.6	19.0	19.4
8H	17.4	17.8	17.8	18.2	18.6	18.1	18.6	18.5	18.9	19.4
12H	17.4	17.8	17.8	18.2	18.6	18.1	18.5	18.5	18.9	19.3
X=8H Y=4H	17.5	17.9	17.9	18.3	18.7	18.1	18.5	18.5	18.9	19.3
6H	17.5	17.8	17.9	18.2	18.7	18.1	18.5	18.6	18.9	19.4
8H	17.4	17.7	17.9	18.2	18.7	18.1	18.4	18.6	18.9	19.3
12H	17.4	17.6	17.9	18.1	18.6	18.1	18.3	18.6	18.8	19.3
X=12H Y=4H	17.5	17.9	17.9	18.3	18.7	18.1	18.5	18.5	18.9	19.3
6H	17.4	17.7	17.9	18.2	18.7	18.1	18.4	18.6	18.8	19.3
8H	17.4	17.7	17.9	18.1	18.6	18.1	18.3	18.6	18.8	19.3
Variations with the observer position at spacings:										
S=1.0H	+0.9/-1.1					+1.2/-1.2				
S=1.5H	+2.1/-2.4					+2.7/-2.1				
S=2.0H	+3.5/-3.4					+4.2/-2.9				

Calculate in accordance with CIE Pub.117. The table is revised with 290lm ($8\log(F/F_0) = -4.3$).

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	132	45.7
	FL (0°-30°)	101	34.8
	FM (30°-60°)	28	9.6
	FH (60°-80°)	4	1.2
	FVH (80°-90°)	0	0.0
	BACK LIGHT	157	54.3
	BL (0°-30°)	120	41.5
	BM (30°-60°)	33	11.3
	BH (60°-80°)	4	1.5
	BVH (80°-90°)	0	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	616.4	0.6	0.6	0.20	0.20
1.0-2.0	613.7	1.8	2.4	0.61	0.81
2.0-3.0	608.3	2.9	5.3	1.00	1.82
3.0-4.0	600.5	4.0	9.3	1.39	3.20
4.0-5.0	590.3	5.1	14.4	1.75	4.95
5.0-6.0	577.6	6.1	20.4	2.09	7.05
6.0-7.0	563.0	7.0	27.4	2.41	9.46
7.0-8.0	546.3	7.8	35.2	2.70	12.16
8.0-9.0	527.7	8.6	43.8	2.95	15.11
9.0-10.0	507.6	9.2	53.0	3.17	18.28
10.0-11.0	486.3	9.7	62.7	3.35	21.63
11.0-12.0	463.4	10.1	72.8	3.49	25.12
12.0-13.0	439.1	10.4	83.3	3.59	28.72
13.0-14.0	413.5	10.6	93.8	3.65	32.37
14.0-15.0	387.2	10.6	104.5	3.67	36.04
15.0-16.0	360.5	10.6	115.0	3.64	39.68
16.0-17.0	333.5	10.4	125.4	3.58	43.27
17.0-18.0	307.1	10.1	135.5	3.49	46.76
18.0-19.0	281.4	9.8	145.3	3.38	50.14
19.0-20.0	256.5	9.4	154.7	3.24	53.38
20.0-21.0	232.8	8.9	163.7	3.08	56.46
21.0-22.0	210.1	8.4	172.1	2.91	59.37
22.0-23.0	188.3	7.9	180.0	2.73	62.10
23.0-24.0	168.1	7.4	187.4	2.54	64.64
24.0-25.0	149.7	6.8	194.2	2.35	66.99
25.0-26.0	133.1	6.3	200.5	2.17	69.15
26.0-27.0	118.3	5.8	206.2	2.00	71.15
27.0-28.0	105.4	5.3	211.6	1.84	72.99
28.0-29.0	94.2	4.9	216.5	1.70	74.69
29.0-30.0	84.5	4.6	221.1	1.57	76.27
30.0-31.0	76.2	4.2	225.3	1.46	77.73
31.0-32.0	68.7	3.9	229.3	1.36	79.09
32.0-33.0	62.3	3.7	232.9	1.27	80.35
33.0-34.0	56.7	3.4	236.4	1.18	81.54
34.0-35.0	51.8	3.2	239.6	1.11	82.65
35.0-36.0	47.4	3.0	242.6	1.04	83.69

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	43.5	2.8	245.4	0.98	84.67
37.0-38.0	40.1	2.7	248.1	0.92	85.59
38.0-39.0	37.0	2.5	250.6	0.87	86.46
39.0-40.0	34.2	2.4	253.0	0.82	87.29
40.0-41.0	31.9	2.3	255.3	0.78	88.07
41.0-42.0	29.6	2.2	257.4	0.74	88.81
42.0-43.0	27.6	2.0	259.5	0.71	89.52
43.0-44.0	25.8	1.9	261.4	0.67	90.19
44.0-45.0	24.1	1.8	263.3	0.64	90.83
45.0-46.0	22.4	1.8	265.0	0.60	91.43
46.0-47.0	20.9	1.7	266.7	0.57	92.01
47.0-48.0	19.4	1.6	268.3	0.54	92.55
48.0-49.0	18.1	1.5	269.8	0.51	93.06
49.0-50.0	16.8	1.4	271.2	0.48	93.54
50.0-51.0	15.6	1.3	272.5	0.46	94.00
51.0-52.0	14.6	1.3	273.7	0.43	94.43
52.0-53.0	13.7	1.2	274.9	0.41	94.85
53.0-54.0	12.9	1.1	276.1	0.39	95.24
54.0-55.0	12.0	1.1	277.1	0.37	95.61
55.0-56.0	11.2	1.0	278.1	0.35	95.95
56.0-57.0	10.5	1.0	279.1	0.33	96.29
57.0-58.0	9.9	0.9	280.0	0.31	96.60
58.0-59.0	9.2	0.9	280.9	0.30	96.90
59.0-60.0	8.6	0.8	281.7	0.28	97.18
60.0-61.0	8.0	0.8	282.5	0.26	97.44
61.0-62.0	7.4	0.7	283.2	0.25	97.68
62.0-63.0	6.9	0.7	283.8	0.23	97.91
63.0-64.0	6.3	0.6	284.5	0.21	98.13
64.0-65.0	5.8	0.6	285.0	0.20	98.33
65.0-66.0	5.4	0.5	285.6	0.19	98.51
66.0-67.0	5.0	0.5	286.1	0.17	98.69
67.0-68.0	4.5	0.5	286.5	0.16	98.85
68.0-69.0	4.2	0.4	287.0	0.15	98.99
69.0-70.0	4.0	0.4	287.4	0.14	99.13
70.0-71.0	3.6	0.4	287.7	0.13	99.26
71.0-72.0	3.3	0.3	288.1	0.12	99.38

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	617.3	617.3								
G1.0	609.7	621.5								
G2.0	599.7	623.7								
G3.0	586.4	623.6								
G4.0	570.7	621.3								
G5.0	553.4	615.6								
G6.0	534.6	606.9								
G7.0	513.8	596.5								
G8.0	491.4	583.6								
G9.0	466.5	569.3								
G10.0	441.1	553.7								
G11.0	414.4	536.0								
G12.0	387.1	516.0								
G13.0	359.1	493.9								
G14.0	331.0	470.0								
G15.0	304.3	443.6								
G16.0	277.9	416.2								
G17.0	252.4	387.7								
G18.0	228.9	359.3								
G19.0	207.0	330.3								
G20.0	186.6	302.1								
G21.0	167.8	274.8								
G22.0	150.1	247.7								
G23.0	133.6	221.9								
G24.0	118.9	198.2								
G25.0	105.6	176.2								
G26.0	94.0	156.6								
G27.0	83.6	139.0								
G28.0	74.8	124.2								
G29.0	67.1	110.8								
G30.0	60.7	99.6								
G31.0	55.0	89.5								
G32.0	49.9	80.6								
G33.0	45.9	72.9								
G34.0	42.2	66.0								
G35.0	39.0	60.0								
G36.0	36.2	54.5								

C Plane (°):0.0-180.0: 180.0
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Test Device: CHL-6E
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Humidity:
Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	33.6	49.8								
G38.0	31.6	45.3								
G39.0	29.5	41.4								
G40.0	28.0	38.0								
G41.0	26.4	35.0								
G42.0	24.9	32.3								
G43.0	23.5	29.8								
G44.0	22.4	27.5								
G45.0	20.8	25.5								
G46.0	19.4	23.8								
G47.0	18.2	22.1								
G48.0	17.2	20.3								
G49.0	15.9	19.0								
G50.0	14.8	17.5								
G51.0	14.0	16.2								
G52.0	13.3	15.1								
G53.0	12.3	14.3								
G54.0	11.5	13.4								
G55.0	10.5	12.4								
G56.0	9.8	11.9								
G57.0	8.9	11.5								
G58.0	8.3	10.8								
G59.0	7.6	10.1								
G60.0	7.0	9.6								
G61.0	6.4	8.9								
G62.0	5.9	8.3								
G63.0	5.4	7.8								
G64.0	5.0	7.0								
G65.0	4.5	6.7								
G66.0	4.3	6.2								
G67.0	3.9	5.6								
G68.0	3.6	5.0								
G69.0	3.4	4.8								
G70.0	3.2	4.5								
G71.0	3.1	3.8								
G72.0	2.5	3.6								
G73.0	2.2	3.4								

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:

Unit: cd

Inspector: