

Report No.:

Test Time: 2025-09-18 17:05

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 15D

Luminous Width (mm): -58

Current: 0.113 A

Power Factor: 0.529

Luminous Length (mm): -58

Voltage: 228.3 V

Power: 13.80 W

Photometric Results

CIE Class: Direct

Measurement Flux: 753.1 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H21

Vertical Diffuse Angle(50%): V21

Luminaire Efficacy Rating (LER): 54.62

Max. Intensity: 4624.38 cd

S/MH(C0/C180): 0.36

Total Rated Lamp Lumens: 753.1 lm

Efficiency: 100%

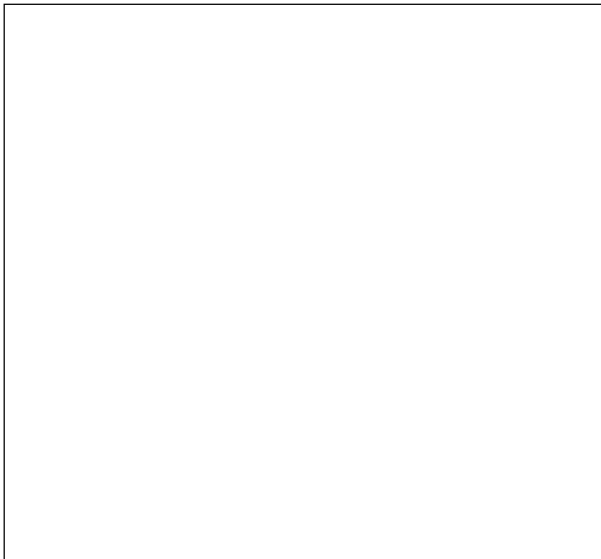
Upward Ratio: 0%

Central Intensity: 4613.14 cd

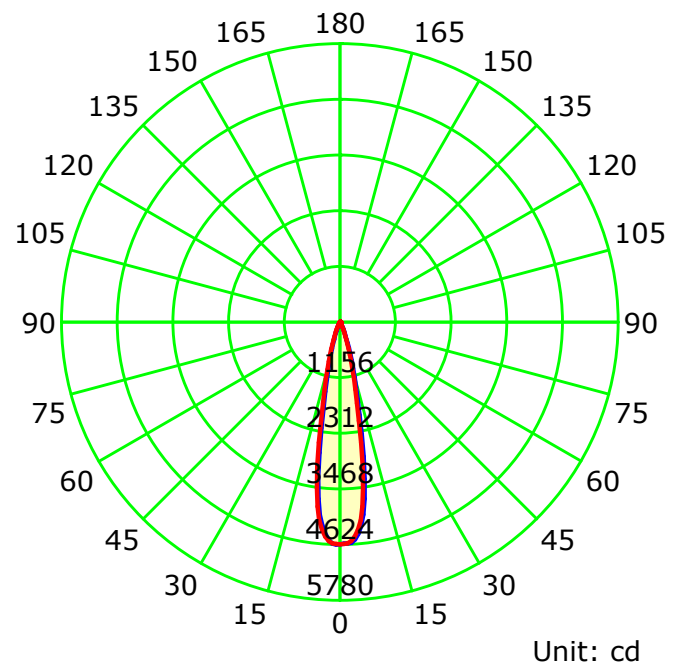
Pos of Max. Intensity: H180 V1

S/MH(C90/C270): 0.36

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

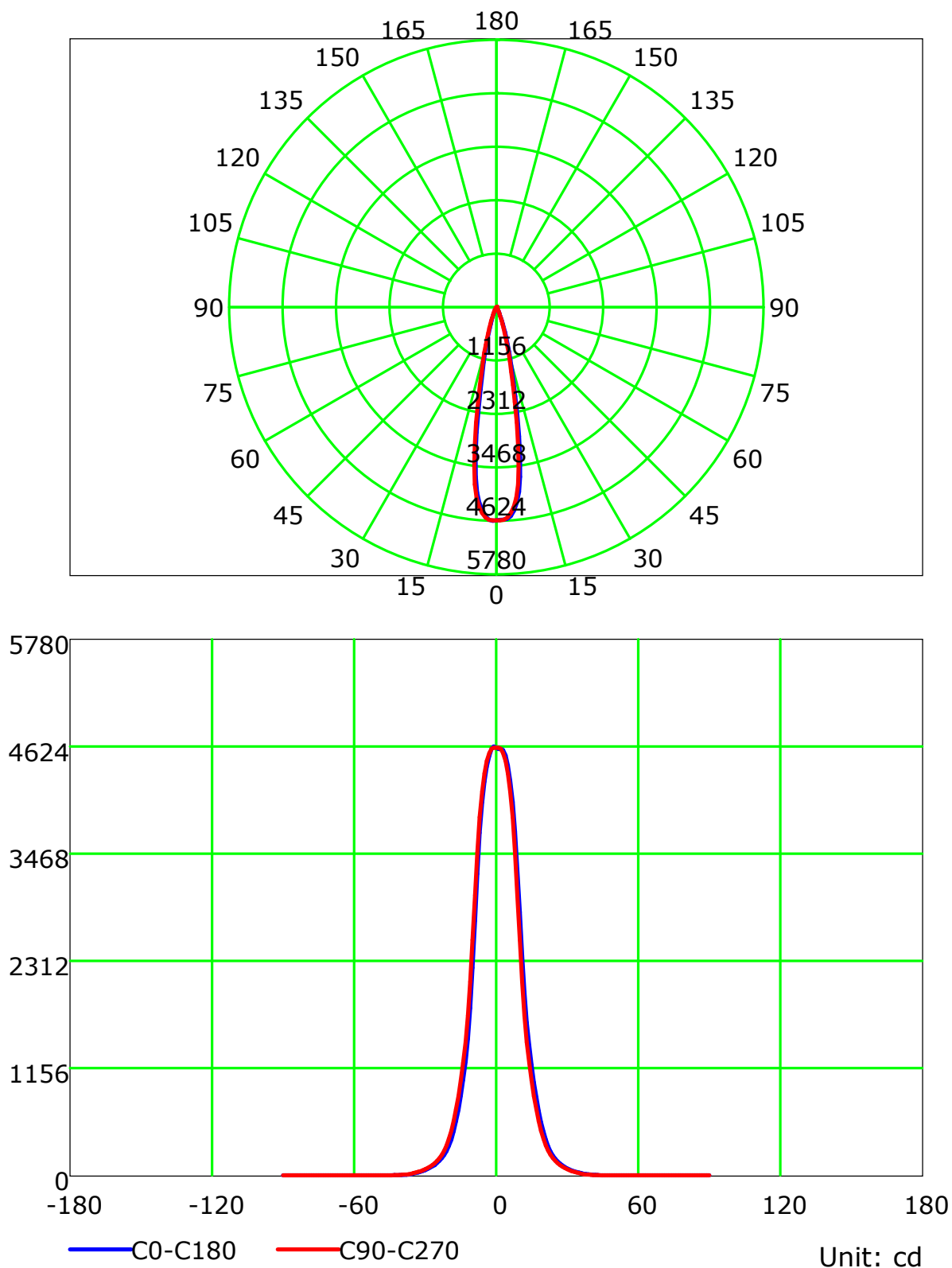
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

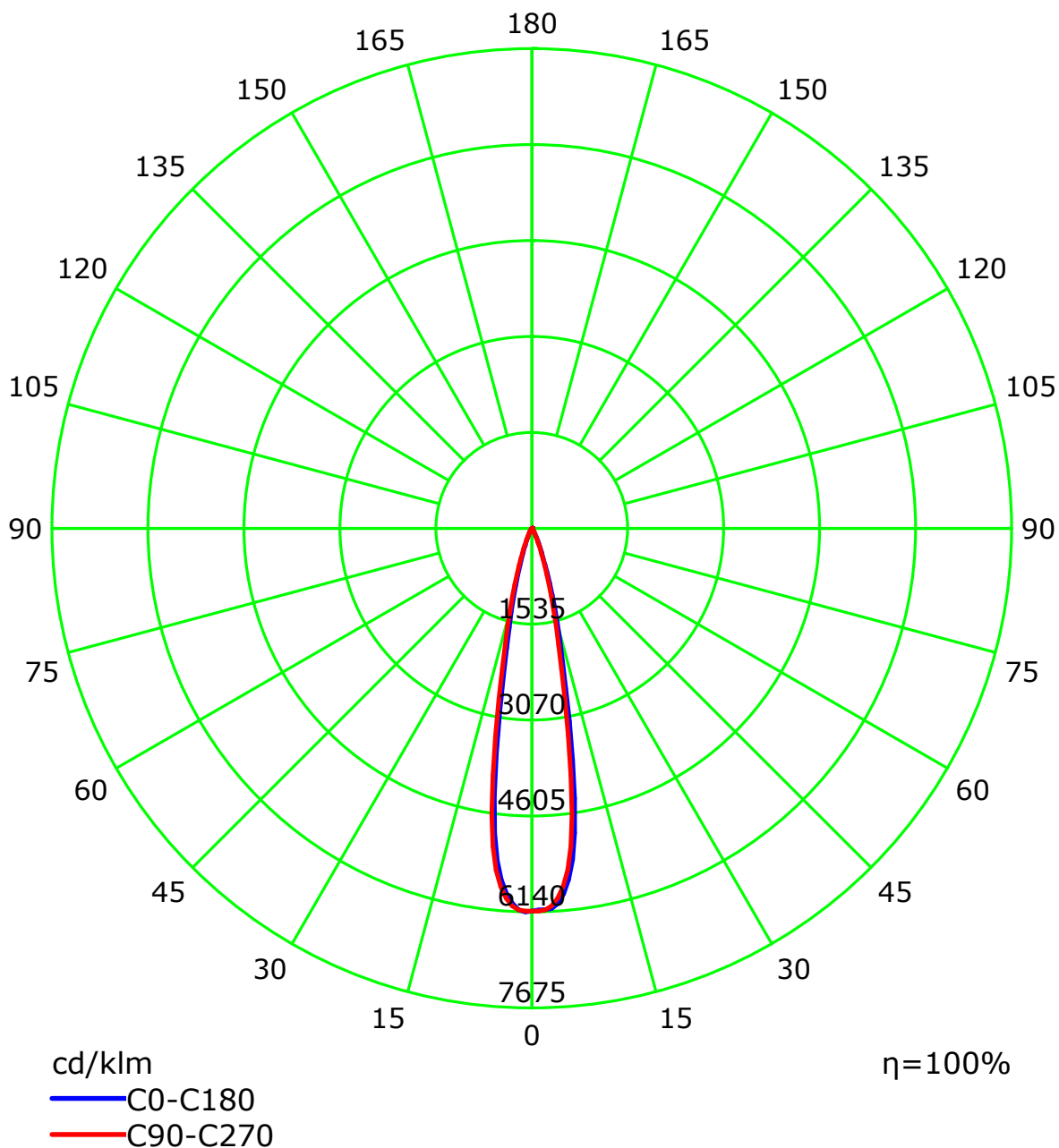
Luminous Intensity Distribution Curve



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:

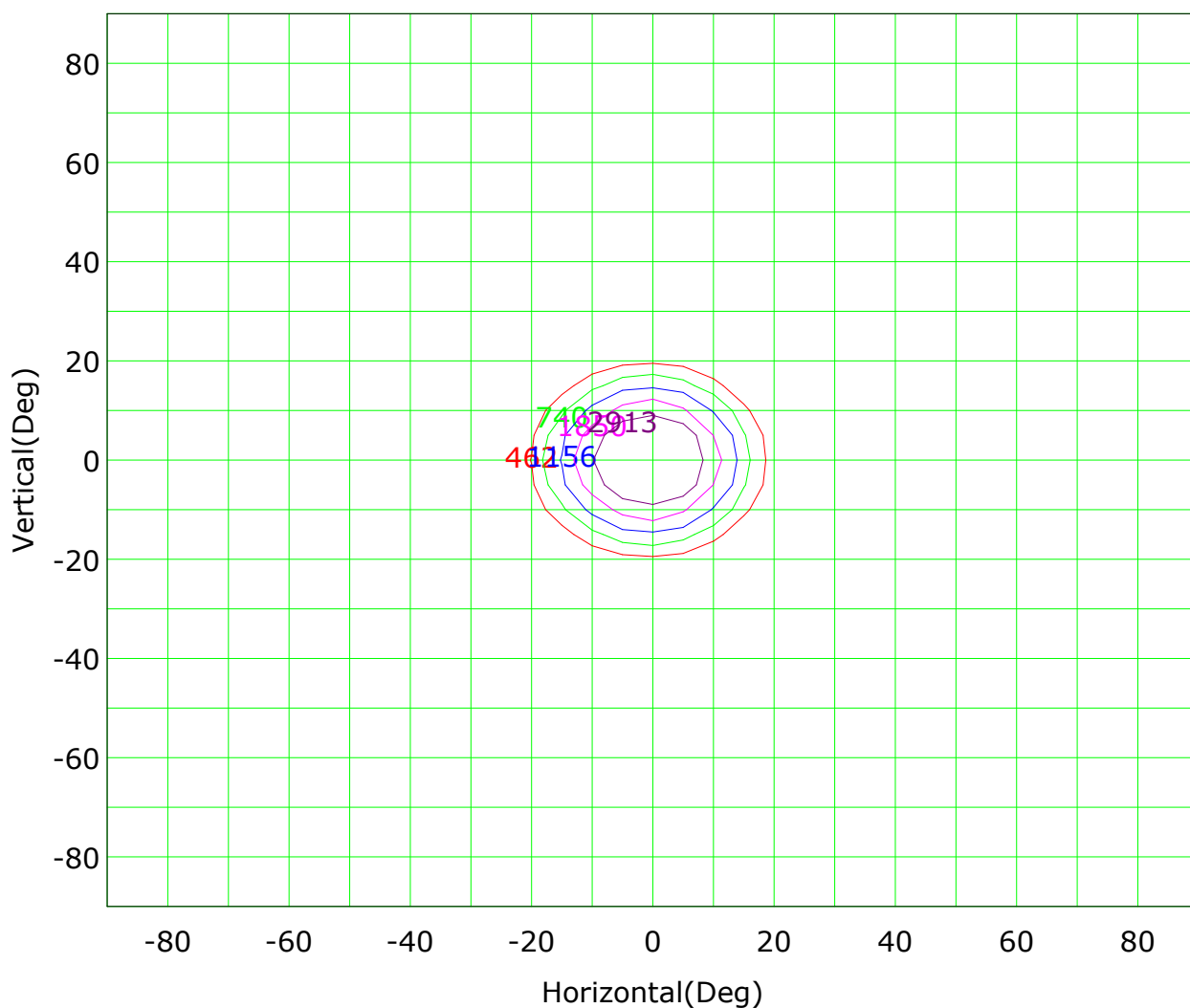
Luminous Intensity Distribution Curve(cd/klm)



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%): 4624 cd

(10%): 462 cd	(16%): 740 cd
(25%): 1156 cd	(40%): 1850 cd
(63%): 2913 cd	(100%): 4624 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

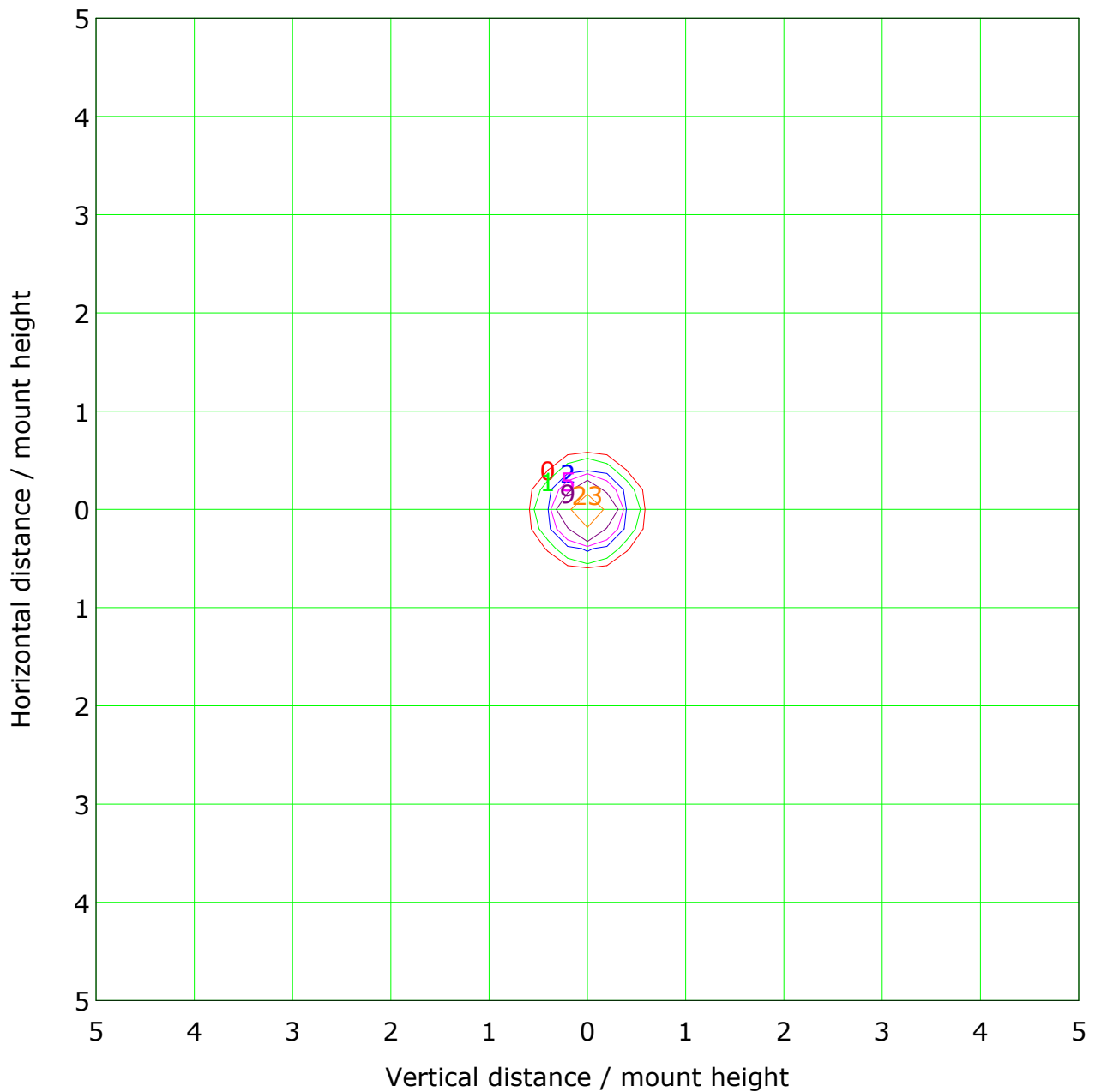
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

IsoLux Plot



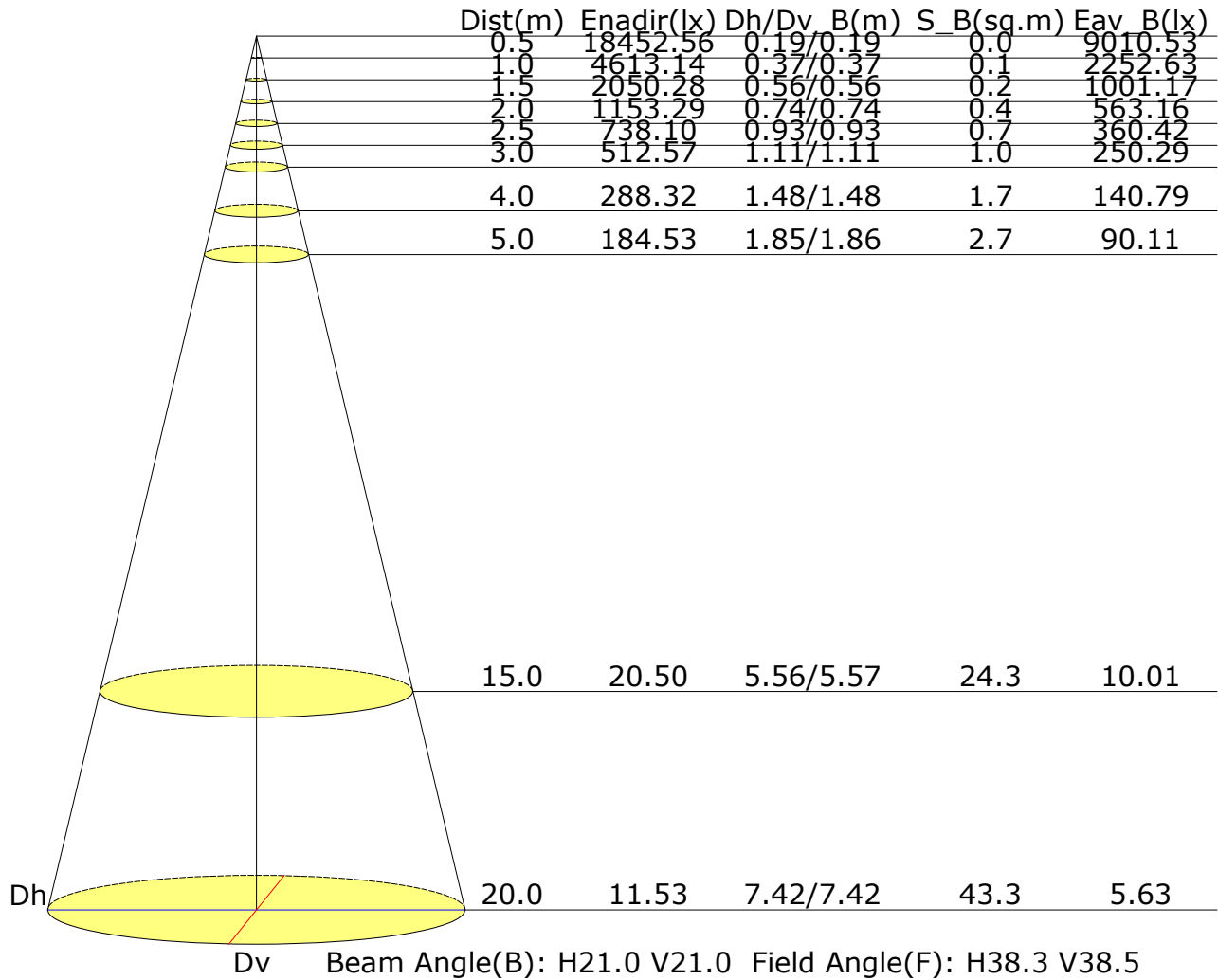
Mounting Height: 10.0m Max Lux(100%): 46.2 lx

(1%): 0.5 lx	(2%): 0.9 lx
(5%): 2.3 lx	(10%): 4.6 lx
(20%): 9.2 lx	(50%): 23.1 lx
(100%): 46.2 lx	

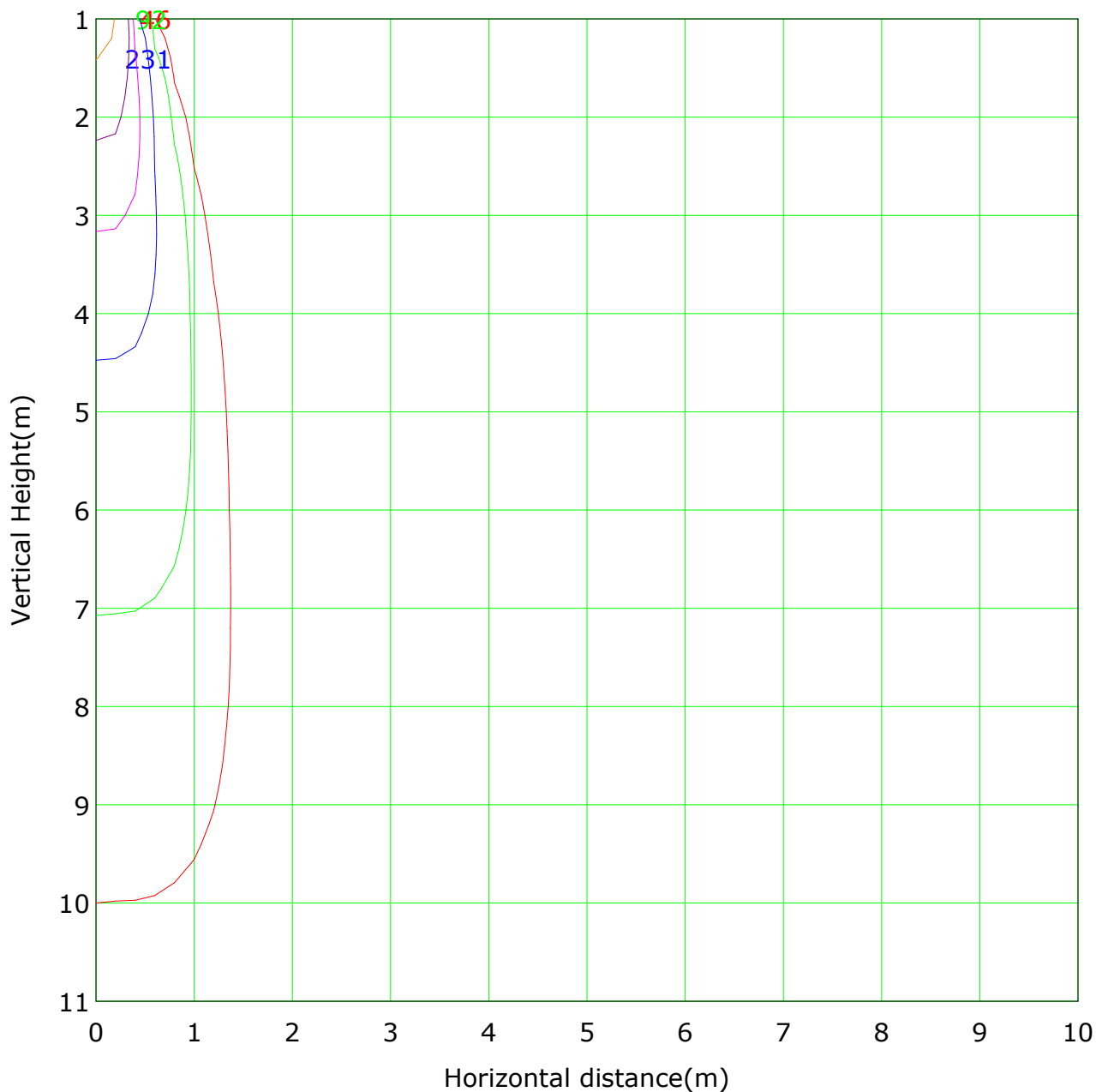
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 4613.1 lx

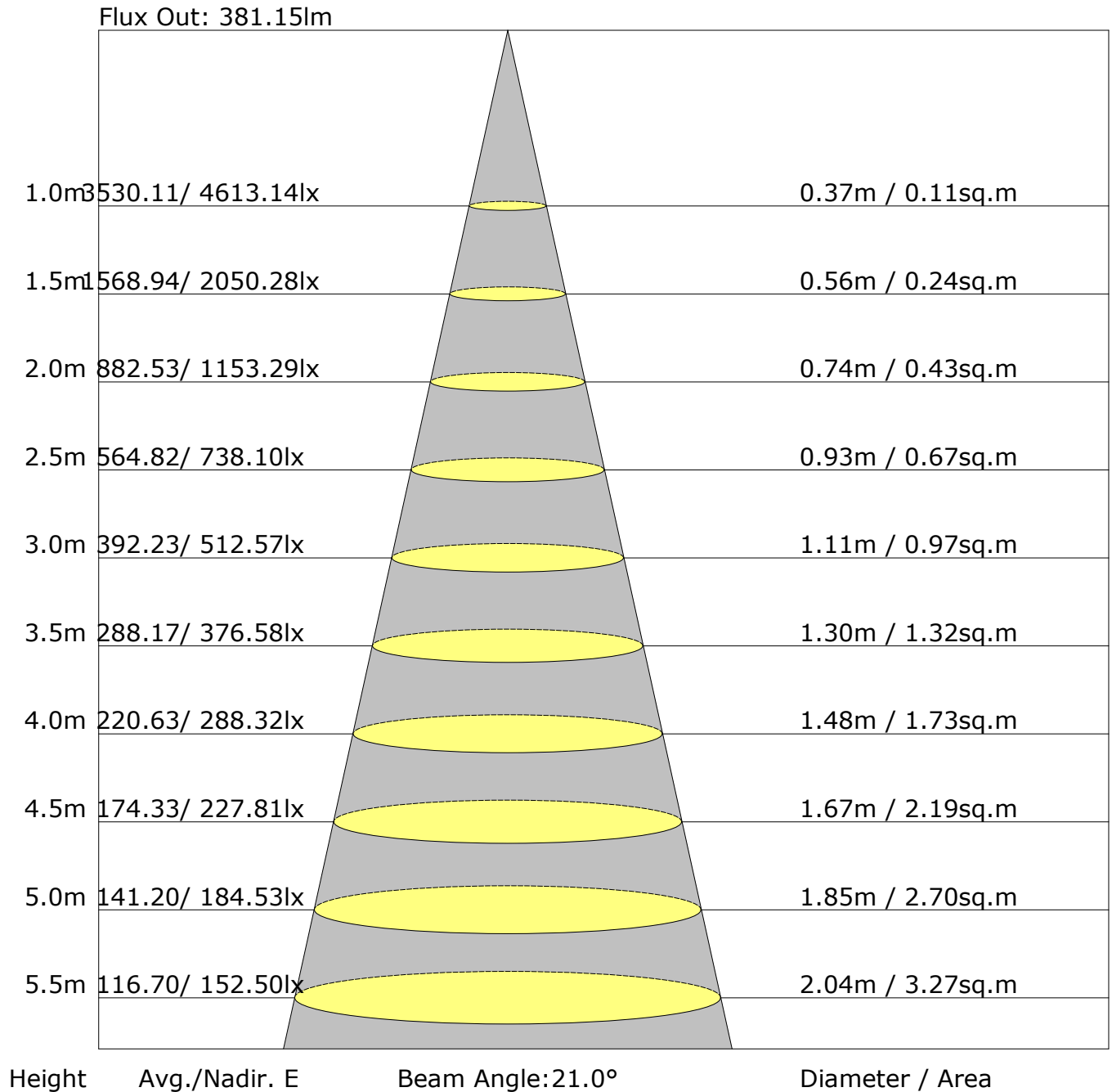
(1%): 46.1 lx	(2%): 92.3 lx
(5%): 230.7 lx	(10%): 461.3 lx
(20%): 922.6 lx	(50%): 2306.6 lx
(100%): 4613.1 lx	

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:

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	5.3	5.9	5.6	6.0	6.2	4.5	5.1	4.8	5.2	5.4
3H	5.2	5.7	5.5	5.9	6.1	4.4	4.9	4.7	5.1	5.3
4H	5.1	5.6	5.4	5.8	6.1	4.3	4.8	4.6	5.0	5.3
6H	5.0	5.5	5.4	5.8	6.0	4.2	4.7	4.6	5.0	5.2
8H	5.0	5.4	5.3	5.7	6.0	4.2	4.6	4.5	4.9	5.2
12H	5.0	5.4	5.3	5.7	6.0	4.2	4.6	4.5	4.9	5.2
X=4H Y=2H	5.1	5.6	5.4	5.8	6.1	4.3	4.8	4.6	5.0	5.3
3H	5.0	5.4	5.3	5.7	6.0	4.2	4.6	4.5	4.9	5.2
4H	4.9	5.2	5.2	5.6	5.9	4.1	4.4	4.4	4.8	5.1
6H	4.8	5.1	5.2	5.5	5.9	4.0	4.3	4.4	4.7	5.1
8H	4.7	5.0	5.2	5.4	5.8	3.9	4.2	4.4	4.6	5.0
12H	4.7	5.0	5.1	5.4	5.8	3.9	4.2	4.3	4.6	5.0
X=8H Y=4H	4.7	5.0	5.2	5.4	5.8	3.9	4.2	4.4	4.6	5.0
6H	4.6	4.9	5.1	5.3	5.7	3.8	4.1	4.3	4.5	4.9
8H	4.6	4.8	5.0	5.2	5.7	3.8	4.0	4.2	4.4	4.9
12H	4.5	4.7	5.0	5.2	5.7	3.7	3.9	4.2	4.4	4.9
X=12H Y=4H	4.7	5.0	5.1	5.4	5.8	3.9	4.2	4.3	4.6	5.0
6H	4.6	4.8	5.0	5.2	5.7	3.8	4.0	4.2	4.4	4.9
8H	4.5	4.7	5.0	5.2	5.7	3.7	3.9	4.2	4.4	4.9
Variations with the observer position at spacings:										
S=1.0H	+6.3/-1.\$					+6.3/-1.\$				
S=1.5H	+9.1/-1.\$					+9.1/-1.\$				
S=2.0H	+11.1/-1.\$					+11.1/-1.\$				

Calculate in accordance with CIE Pub.117. The table is revised with 753lm ($8\log(F/F_0) = -1.0$).

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	396	52.6
	FL (0°-30°)	386	51.3
	FM (30°-60°)	10	1.4
	FH (60°-80°)	0	0.0
	FVH (80°-90°)	0	0.0
	BACK LIGHT	357	47.4
	BL (0°-30°)	348	46.3
	BM (30°-60°)	8	1.1
	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)	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	4612.4	4.4	4.4	0.59	0.59
1.0-2.0	4605.8	13.2	17.6	1.76	2.34
2.0-3.0	4577.7	21.9	39.5	2.91	5.25
3.0-4.0	4512.0	30.2	69.7	4.01	9.26
4.0-5.0	4401.1	37.9	107.6	5.03	14.29
5.0-6.0	4237.1	44.5	152.1	5.91	20.20
6.0-7.0	4000.9	49.7	201.8	6.59	26.80
7.0-8.0	3670.8	52.5	254.3	6.98	33.77
8.0-9.0	3251.3	52.7	307.0	7.00	40.77
9.0-10.0	2779.8	50.3	357.4	6.68	47.45
10.0-11.0	2313.2	46.2	403.6	6.14	53.59
11.0-12.0	1906.7	41.7	445.3	5.54	59.12
12.0-13.0	1581.2	37.5	482.8	4.98	64.11
13.0-14.0	1325.7	33.9	516.7	4.51	68.61
14.0-15.0	1118.9	30.7	547.5	4.08	72.69
15.0-16.0	939.8	27.5	575.0	3.66	76.35
16.0-17.0	783.6	24.4	599.4	3.24	79.59
17.0-18.0	649.1	21.4	620.8	2.84	82.43
18.0-19.0	533.6	18.6	639.4	2.47	84.90
19.0-20.0	437.4	16.0	655.4	2.13	87.03
20.0-21.0	358.4	13.8	669.2	1.83	88.85
21.0-22.0	295.3	11.9	681.0	1.58	90.43
22.0-23.0	245.1	10.3	691.3	1.37	91.79
23.0-24.0	204.3	8.9	700.2	1.19	92.98
24.0-25.0	171.7	7.8	708.1	1.04	94.02
25.0-26.0	144.6	6.8	714.9	0.91	94.92
26.0-27.0	121.8	6.0	720.8	0.79	95.72
27.0-28.0	103.6	5.2	726.1	0.70	96.41
28.0-29.0	87.8	4.6	730.7	0.61	97.02
29.0-30.0	73.4	4.0	734.6	0.53	97.55
30.0-31.0	61.4	3.4	738.1	0.45	98.00
31.0-32.0	51.3	2.9	741.0	0.39	98.39
32.0-33.0	42.8	2.5	743.5	0.34	98.73
33.0-34.0	35.1	2.1	745.6	0.28	99.01
34.0-35.0	28.4	1.8	747.4	0.23	99.24
35.0-36.0	22.5	1.4	748.8	0.19	99.43

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	16.2	1.1	749.9	0.14	99.57
37.0-38.0	11.9	0.8	750.7	0.11	99.68
38.0-39.0	9.8	0.7	751.4	0.09	99.77
39.0-40.0	7.7	0.5	751.9	0.07	99.84
40.0-41.0	5.6	0.4	752.3	0.05	99.89
41.0-42.0	4.6	0.3	752.6	0.04	99.94
42.0-43.0	3.9	0.3	752.9	0.04	99.98
43.0-44.0	2.1	0.2	753.1	0.02	100.00
44.0-45.0	0.3	0.0	753.1	0.00	100.00
45.0-46.0	0.0	0.0	753.1	0.00	100.00
46.0-47.0	0.0	0.0	753.1	0.00	100.00
47.0-48.0	0.0	0.0	753.1	0.00	100.00
48.0-49.0	0.0	0.0	753.1	0.00	100.00
49.0-50.0	0.0	0.0	753.1	0.00	100.00
50.0-51.0	0.0	0.0	753.1	0.00	100.00
51.0-52.0	0.0	0.0	753.1	0.00	100.00
52.0-53.0	0.0	0.0	753.1	0.00	100.00
53.0-54.0	0.0	0.0	753.1	0.00	100.00
54.0-55.0	0.0	0.0	753.1	0.00	100.00
55.0-56.0	0.0	0.0	753.1	0.00	100.00
56.0-57.0	0.0	0.0	753.1	0.00	100.00
57.0-58.0	0.0	0.0	753.1	0.00	100.00
58.0-59.0	0.0	0.0	753.1	0.00	100.00
59.0-60.0	0.0	0.0	753.1	0.00	100.00
60.0-61.0	0.0	0.0	753.1	0.00	100.00
61.0-62.0	0.0	0.0	753.1	0.00	100.00
62.0-63.0	0.0	0.0	753.1	0.00	100.00
63.0-64.0	0.0	0.0	753.1	0.00	100.00
64.0-65.0	0.0	0.0	753.1	0.00	100.00
65.0-66.0	0.0	0.0	753.1	0.00	100.00
66.0-67.0	0.0	0.0	753.1	0.00	100.00
67.0-68.0	0.0	0.0	753.1	0.00	100.00
68.0-69.0	0.0	0.0	753.1	0.00	100.00
69.0-70.0	0.0	0.0	753.1	0.00	100.00
70.0-71.0	0.0	0.0	753.1	0.00	100.00
71.0-72.0	0.0	0.0	753.1	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: 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	4613.1	4613.1								
G1.0	4599.1	4624.4								
G2.0	4597.7	4601.9								
G3.0	4586.5	4524.7								
G4.0	4528.9	4408.1								
G5.0	4419.3	4248.0								
G6.0	4256.4	4024.7								
G7.0	4026.1	3696.1								
G8.0	3707.4	3253.8								
G9.0	3297.3	2746.8								
G10.0	2836.7	2238.5								
G11.0	2371.9	1805.9								
G12.0	1974.4	1474.5								
G13.0	1650.1	1226.0								
G14.0	1398.7	1027.9								
G15.0	1190.8	858.0								
G16.0	1002.7	707.8								
G17.0	841.2	582.8								
G18.0	696.5	476.1								
G19.0	575.8	386.2								
G20.0	471.9	316.0								
G21.0	384.8	261.2								
G22.0	314.6	220.5								
G23.0	258.4	186.8								
G24.0	213.4	158.7								
G25.0	179.8	134.8								
G26.0	151.7	112.3								
G27.0	126.4	96.9								
G28.0	108.1	82.8								
G29.0	91.3	68.8								
G30.0	75.8	57.6								
G31.0	64.6	47.8								
G32.0	53.4	39.3								
G33.0	46.3	32.3								
G34.0	36.5	25.3								
G35.0	30.9	21.1								
G36.0	25.3	12.6								

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Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	18.3	8.4								
G38.0	14.0	7.0								
G39.0	11.2	7.0								
G40.0	8.4	4.2								
G41.0	7.0	2.8								
G42.0	7.0	1.4								
G43.0	4.2	2.8								
G44.0	1.4	0.0								
G45.0	0.0	0.0								
G46.0	0.0	0.0								
G47.0	0.0	0.0								
G48.0	0.0	0.0								
G49.0	0.0	0.0								
G50.0	0.0	0.0								
G51.0	0.0	0.0								
G52.0	0.0	0.0								
G53.0	0.0	0.0								
G54.0	0.0	0.0								
G55.0	0.0	0.0								
G56.0	0.0	0.0								
G57.0	0.0	0.0								
G58.0	0.0	0.0								
G59.0	0.0	0.0								
G60.0	0.0	0.0								
G61.0	0.0	0.0								
G62.0	0.0	0.0								
G63.0	0.0	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:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

Unit: cd

Inspector: