

Report No.:

Test Time: 2026-04-23 17:13

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: red

Luminous Width (mm): -65

Current: 0.114 A

Power Factor: 0.536

Luminous Length (mm): -65

Voltage: 226.8 V

Power: 13.90 W

Photometric Results

CIE Class: Direct

Measurement Flux: 533 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H17.9

Vertical Diffuse Angle(50%): V17.9

Luminaire Efficacy Rating (LER): 38.39

Max. Intensity: 3429.65 cd

S/MH(C0/C180): 0.31

Total Rated Lamp Lumens: 533.0 lm

Efficiency: 100%

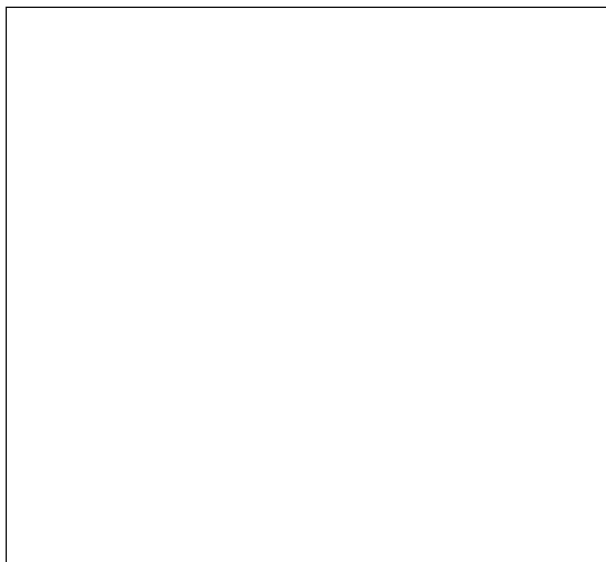
Upward Ratio: 0%

Central Intensity: 3350.37 cd

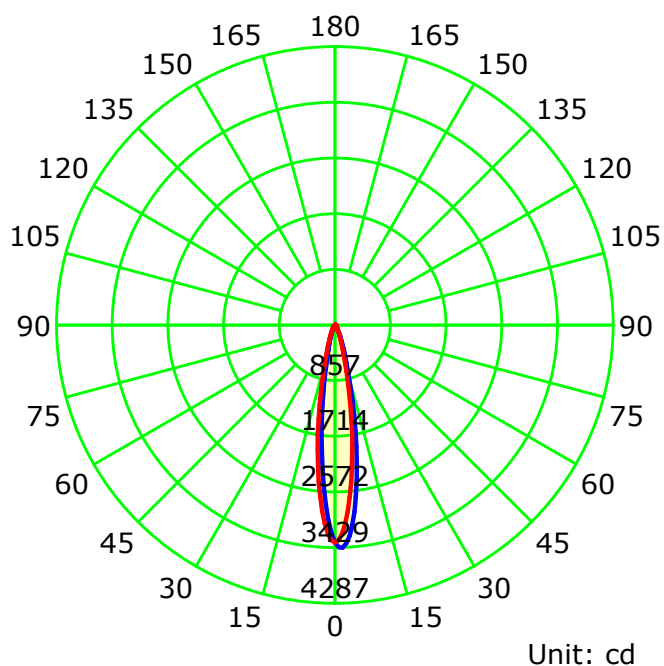
Pos of Max. Intensity: H0 V2

S/MH(C90/C270): 0.31

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

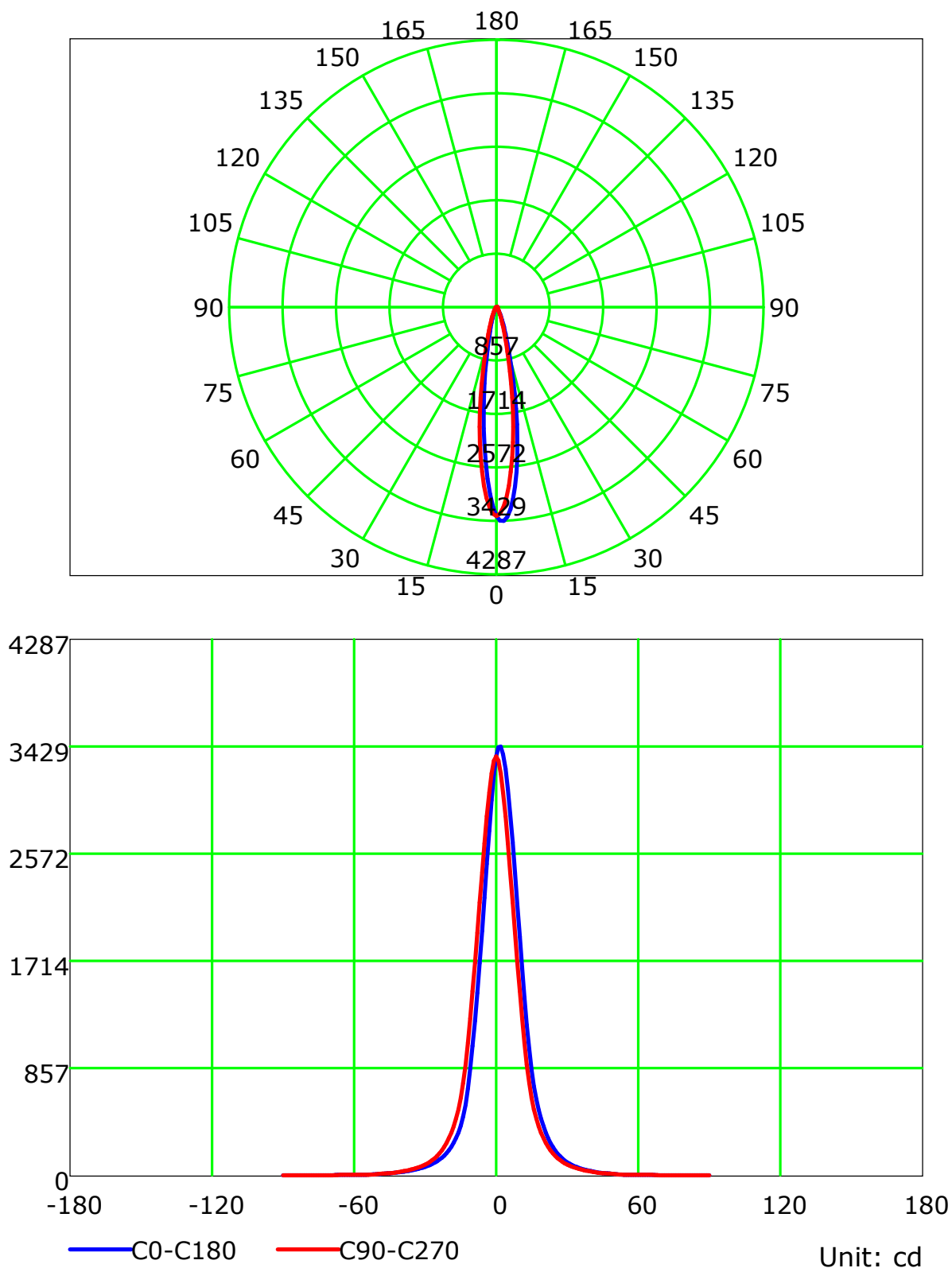
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

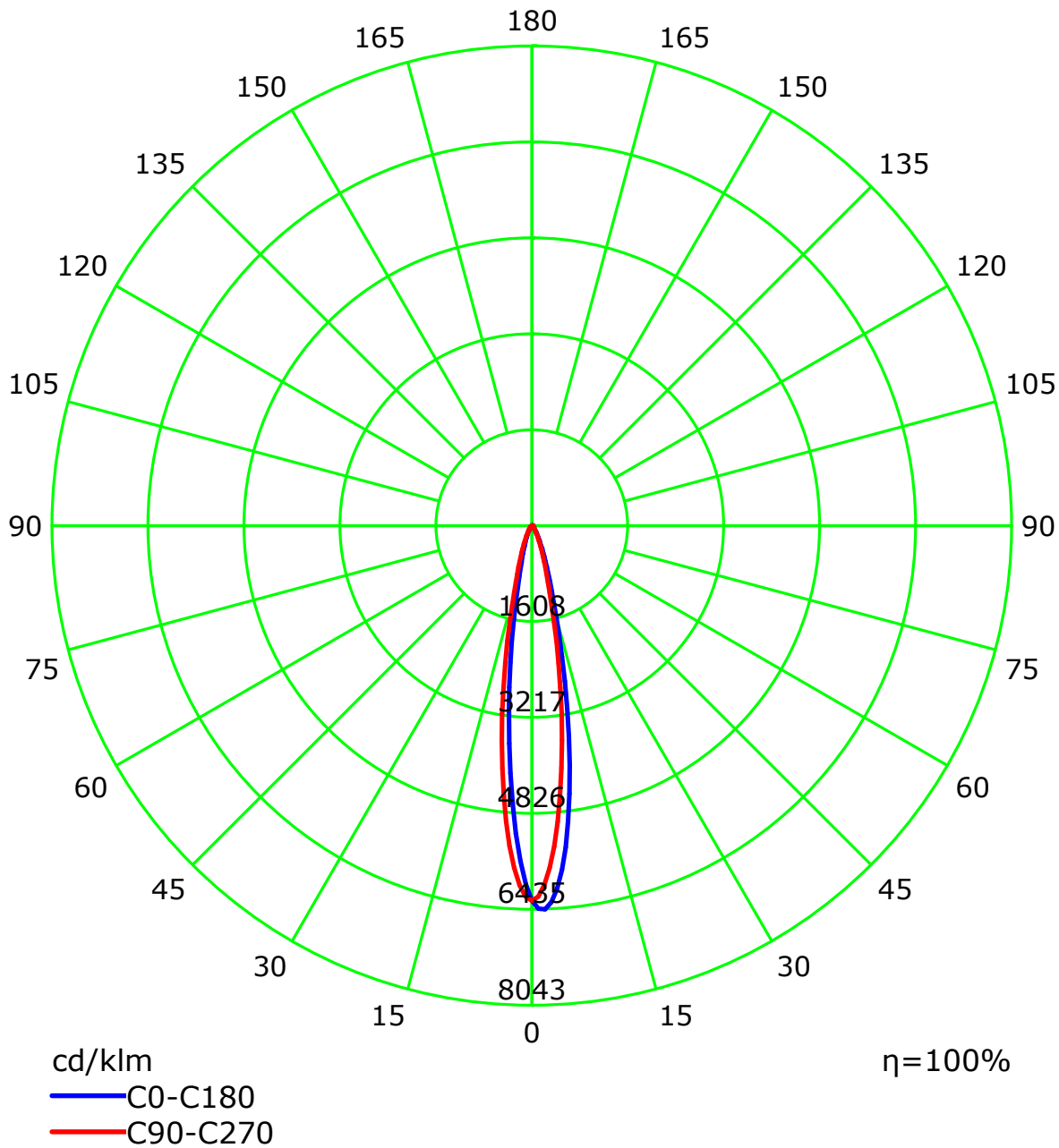
Luminous Intensity Distribution Curve



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:

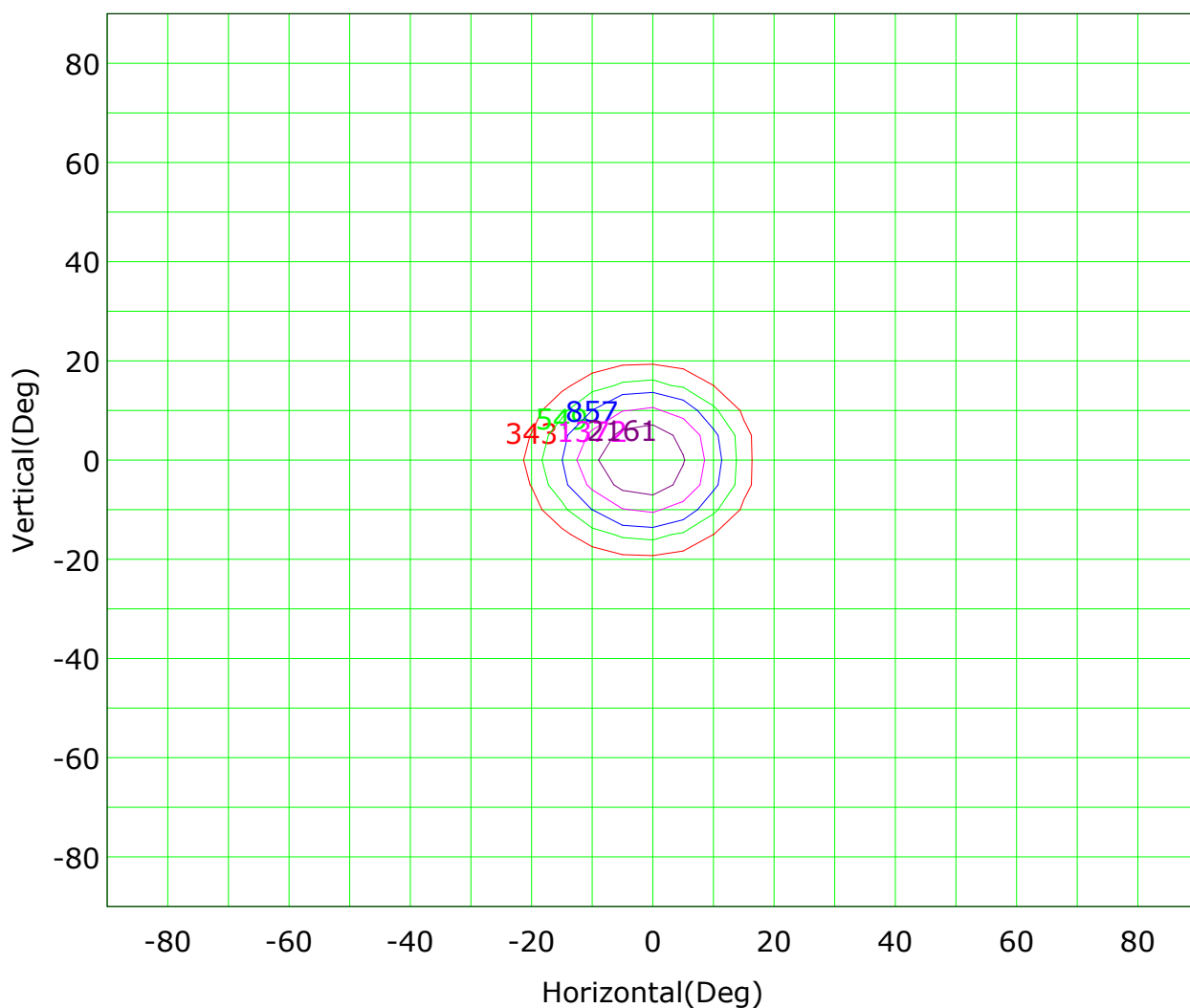
Luminous Intensity Distribution Curve(cd/klm)



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%): 3430 cd

(10%): 343 cd	(16%): 549 cd
(25%): 857 cd	(40%): 1372 cd
(63%): 2161 cd	(100%): 3430 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

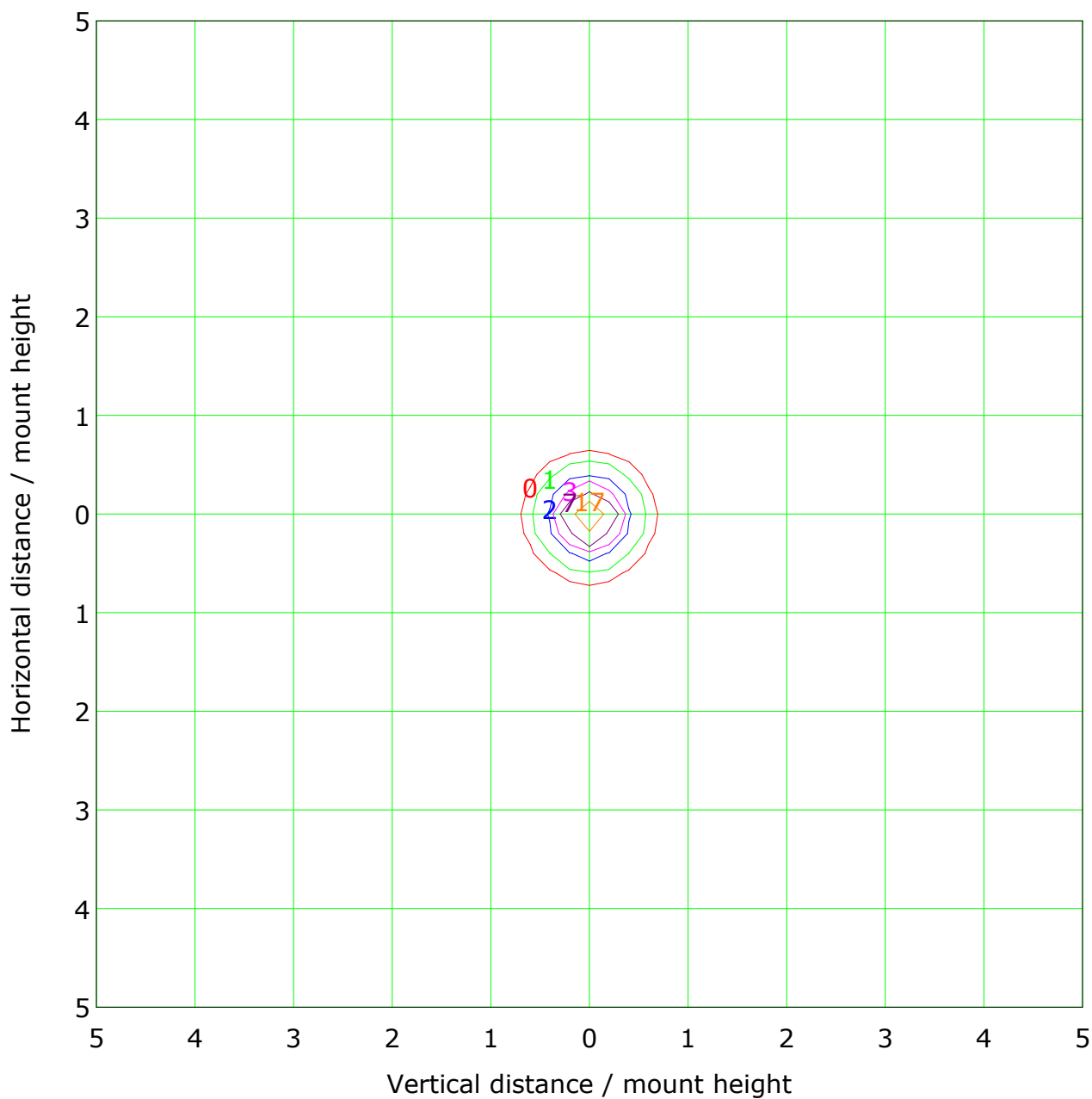
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 34.2 lx

(1%): 0.3 lx	(2%): 0.7 lx
(5%): 1.7 lx	(10%): 3.4 lx
(20%): 6.8 lx	(50%): 17.1 lx
(100%): 34.2 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

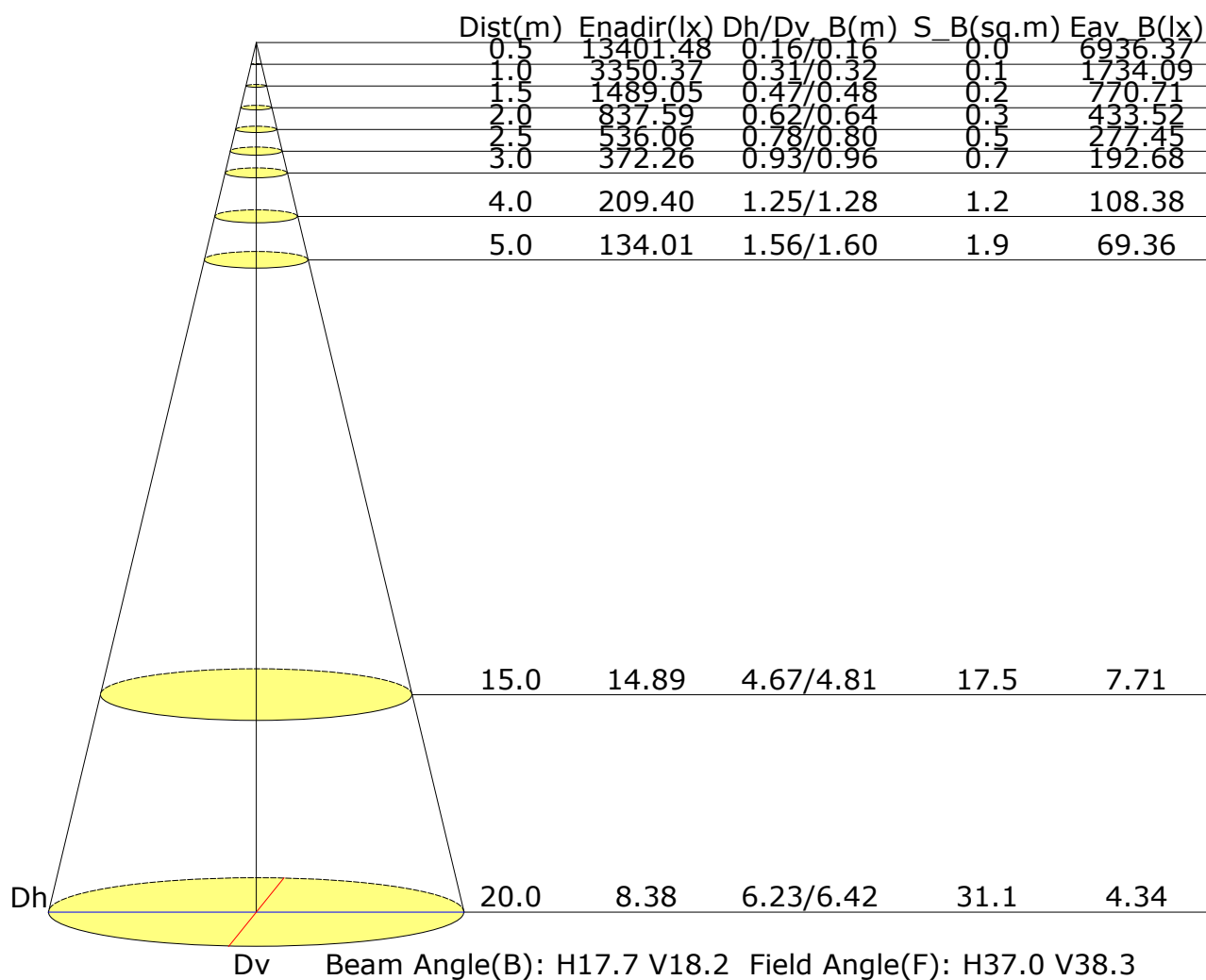
Test Device: CHL-6E

Distance: 3.010 m

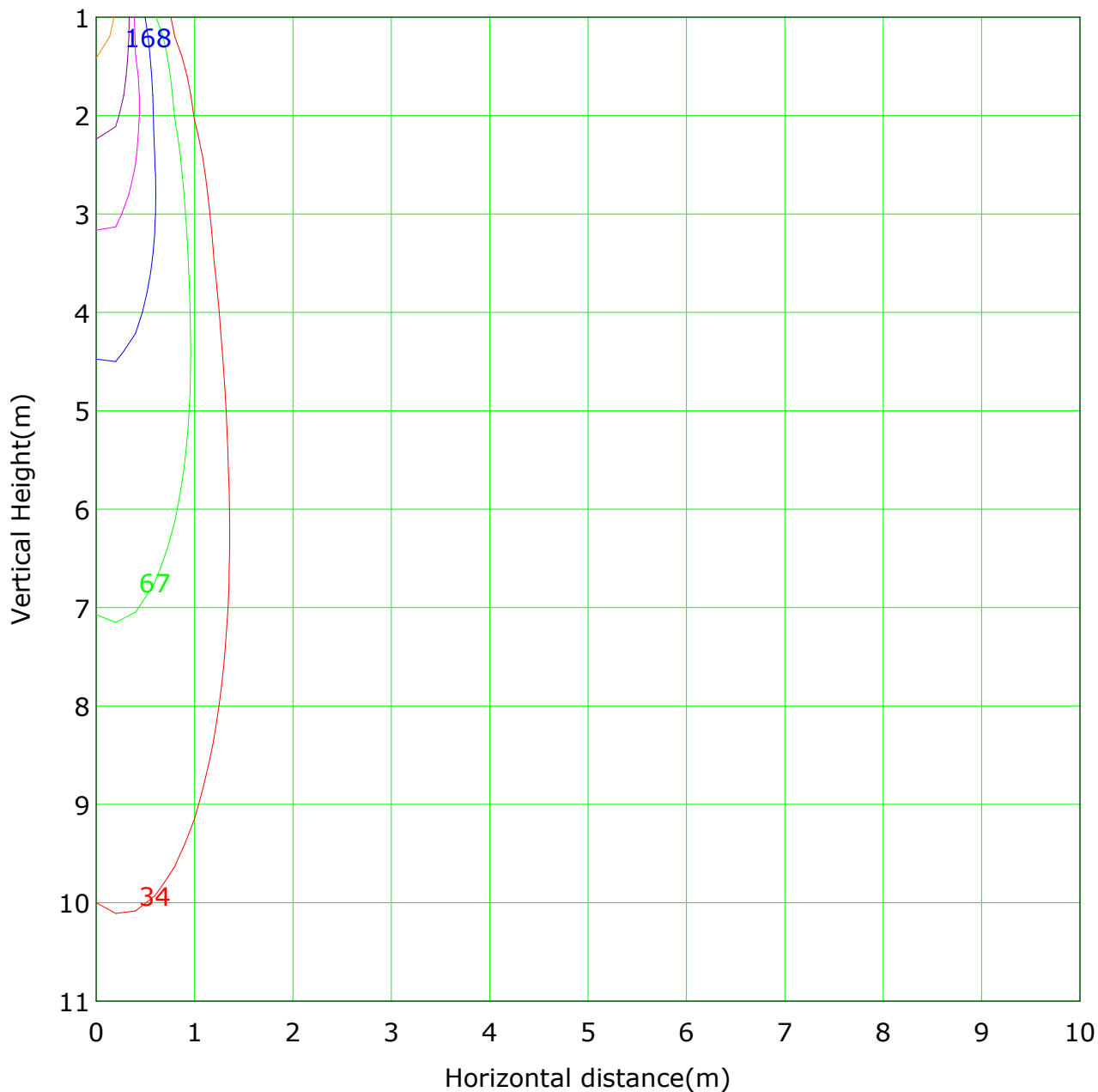
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 3350.4 lx

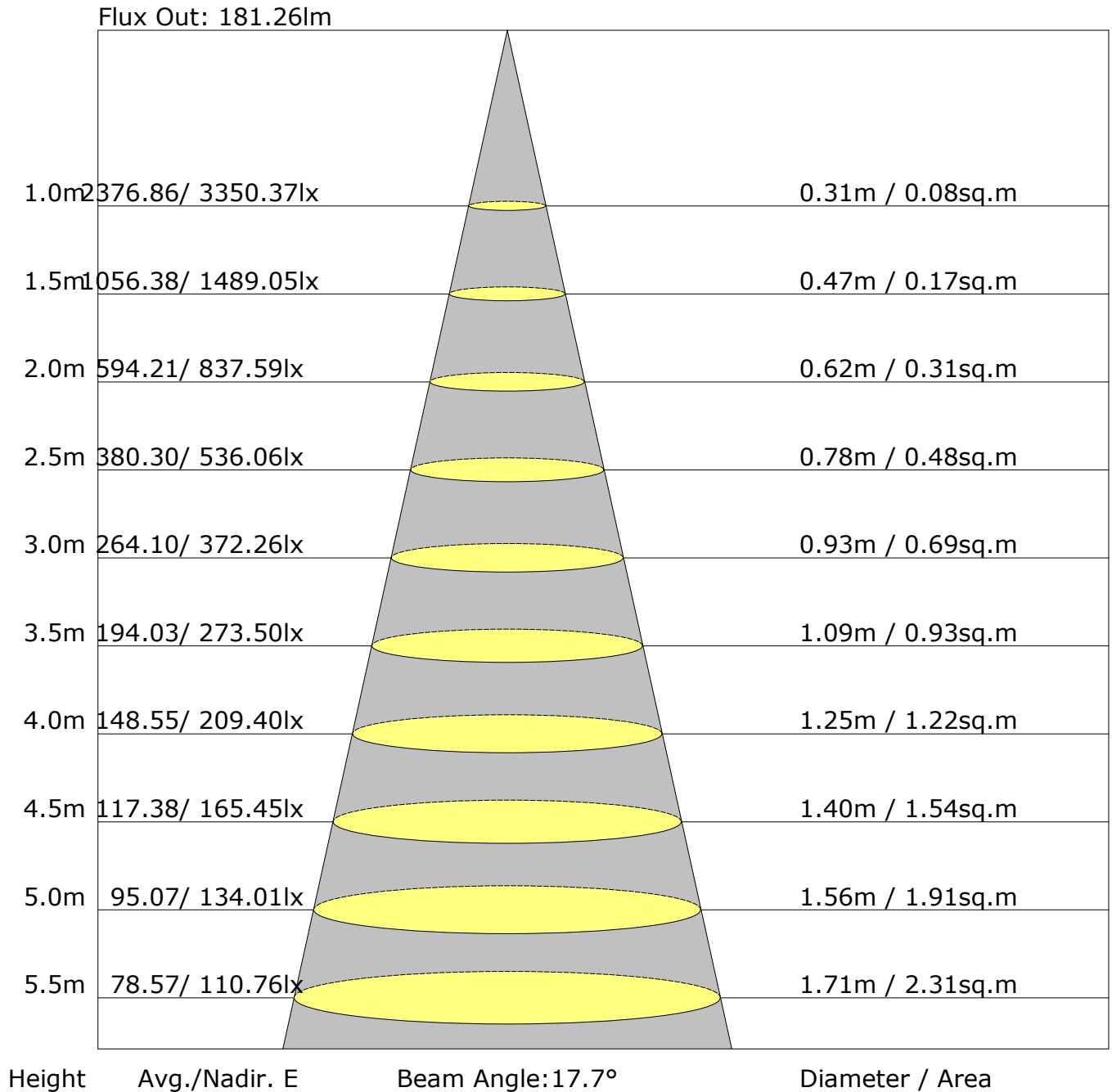
(1%): 33.5 lx	(2%): 67.0 lx
(5%): 167.5 lx	(10%): 335.0 lx
(20%): 670.1 lx	(50%): 1675.2 lx
(100%): 3350.4 lx	

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	12.0	12.7	12.3	12.9	13.1	11.7	12.3	11.9	12.5	12.7
3H	12.1	12.7	12.4	12.9	13.2	11.9	12.4	12.2	12.7	12.9
4H	12.1	12.6	12.4	12.9	13.1	11.8	12.3	12.1	12.6	12.9
6H	12.0	12.5	12.3	12.8	13.1	11.7	12.2	12.0	12.5	12.8
8H	12.0	12.4	12.3	12.7	13.0	11.7	12.2	12.0	12.5	12.8
12H	11.9	12.4	12.3	12.7	13.0	11.6	12.1	12.0	12.4	12.7
X=4H Y=2H	12.1	12.6	12.4	12.9	13.1	11.8	12.3	12.1	12.6	12.8
3H	12.2	12.6	12.5	12.9	13.3	11.9	12.4	12.3	12.7	13.0
4H	12.1	12.5	12.5	12.8	13.2	11.8	12.3	12.2	12.6	12.9
6H	12.0	12.4	12.4	12.7	13.1	11.8	12.1	12.2	12.5	12.9
8H	12.0	12.3	12.4	12.7	13.1	11.7	12.0	12.1	12.4	12.8
12H	11.9	12.2	12.3	12.6	13.0	11.7	12.0	12.1	12.4	12.8
X=8H Y=4H	12.0	12.3	12.4	12.7	13.1	11.7	12.0	12.1	12.4	12.8
6H	11.9	12.1	12.3	12.6	13.0	11.6	11.9	12.1	12.3	12.8
8H	11.8	12.0	12.3	12.5	13.0	11.6	11.8	12.0	12.2	12.7
12H	11.8	12.0	12.2	12.4	12.9	11.5	11.7	12.0	12.2	12.7
X=12H Y=4H	11.9	12.2	12.3	12.6	13.0	11.7	12.0	12.1	12.4	12.8
6H	11.8	12.0	12.3	12.5	13.0	11.6	11.8	12.0	12.2	12.7
8H	11.8	12.0	12.2	12.4	12.9	11.5	11.7	12.0	12.2	12.7
Variations with the observer position at spacings:										
S=1.0H	+3.2/-4.6					+2.7/-3.9				
S=1.5H	+5.7/-4.0					+5.2/-3.5				
S=2.0H	+7.5/-9.0					+6.9/-7.8				

Calculate in accordance with CIE Pub.117. The table is revised with 533lm ($8\log(F/F_0) = -2.2$).

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	299	56.1
	FL (0°-30°)	269	50.4
	FM (30°-60°)	29	5.4
	FH (60°-80°)	2	0.3
	FVH (80°-90°)	0	0.0
	BACK LIGHT	234	43.9
	BL (0°-30°)	206	38.7
	BM (30°-60°)	26	4.8
	BH (60°-80°)	2	0.4
	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	3333.0	3.2	3.2	0.60	0.60
1.0-2.0	3265.3	9.4	12.6	1.76	2.36
2.0-3.0	3138.8	15.0	27.6	2.82	5.17
3.0-4.0	2967.3	19.9	47.4	3.73	8.90
4.0-5.0	2763.4	23.8	71.2	4.46	13.36
5.0-6.0	2539.2	26.7	97.9	5.01	18.37
6.0-7.0	2302.6	28.6	126.5	5.36	23.73
7.0-8.0	2060.7	29.5	156.0	5.53	29.27
8.0-9.0	1820.7	29.5	185.5	5.54	34.81
9.0-10.0	1587.3	28.7	214.2	5.39	40.20
10.0-11.0	1364.7	27.3	241.5	5.12	45.31
11.0-12.0	1158.0	25.3	266.8	4.75	50.06
12.0-13.0	972.2	23.1	289.9	4.33	54.39
13.0-14.0	811.9	20.8	310.7	3.90	58.29
14.0-15.0	679.9	18.7	329.3	3.50	61.80
15.0-16.0	574.6	16.8	346.2	3.16	64.96
16.0-17.0	490.8	15.3	361.5	2.87	67.82
17.0-18.0	423.1	14.0	375.4	2.62	70.44
18.0-19.0	367.0	12.8	388.2	2.40	72.84
19.0-20.0	319.4	11.7	399.9	2.19	75.03
20.0-21.0	278.9	10.7	410.6	2.01	77.04
21.0-22.0	244.2	9.8	420.4	1.84	78.88
22.0-23.0	214.4	9.0	429.4	1.69	80.57
23.0-24.0	188.7	8.3	437.7	1.55	82.12
24.0-25.0	166.5	7.6	445.2	1.42	83.54
25.0-26.0	147.3	7.0	452.2	1.30	84.84
26.0-27.0	130.5	6.4	458.6	1.20	86.04
27.0-28.0	115.9	5.9	464.4	1.10	87.14
28.0-29.0	103.1	5.4	469.8	1.01	88.16
29.0-30.0	92.0	5.0	474.8	0.93	89.09
30.0-31.0	82.6	4.6	479.4	0.86	89.95
31.0-32.0	74.5	4.3	483.7	0.80	90.75
32.0-33.0	67.2	4.0	487.6	0.74	91.50
33.0-34.0	60.7	3.7	491.3	0.69	92.19
34.0-35.0	54.8	3.4	494.7	0.64	92.82
35.0-36.0	49.5	3.2	497.9	0.59	93.42

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	44.8	2.9	500.8	0.55	93.96
37.0-38.0	40.5	2.7	503.5	0.51	94.47
38.0-39.0	36.6	2.5	506.0	0.47	94.94
39.0-40.0	33.0	2.3	508.3	0.43	95.37
40.0-41.0	29.6	2.1	510.4	0.40	95.77
41.0-42.0	26.5	1.9	512.3	0.36	96.13
42.0-43.0	23.6	1.7	514.1	0.33	96.46
43.0-44.0	21.1	1.6	515.7	0.30	96.76
44.0-45.0	19.2	1.5	517.1	0.28	97.03
45.0-46.0	17.8	1.4	518.5	0.26	97.29
46.0-47.0	16.5	1.3	519.8	0.25	97.54
47.0-48.0	15.1	1.2	521.1	0.23	97.77
48.0-49.0	13.5	1.1	522.2	0.21	97.98
49.0-50.0	11.9	1.0	523.2	0.19	98.16
50.0-51.0	10.4	0.9	524.0	0.16	98.33
51.0-52.0	8.8	0.8	524.8	0.14	98.47
52.0-53.0	7.5	0.7	525.4	0.12	98.59
53.0-54.0	6.5	0.6	526.0	0.11	98.70
54.0-55.0	5.9	0.5	526.5	0.10	98.80
55.0-56.0	5.7	0.5	527.1	0.10	98.89
56.0-57.0	5.6	0.5	527.6	0.10	98.99
57.0-58.0	5.5	0.5	528.1	0.10	99.09
58.0-59.0	5.5	0.5	528.6	0.10	99.18
59.0-60.0	5.3	0.5	529.1	0.09	99.28
60.0-61.0	5.2	0.5	529.6	0.09	99.37
61.0-62.0	5.1	0.5	530.1	0.09	99.46
62.0-63.0	5.0	0.5	530.6	0.09	99.55
63.0-64.0	4.9	0.5	531.0	0.09	99.64
64.0-65.0	4.7	0.5	531.5	0.09	99.73
65.0-66.0	4.5	0.4	532.0	0.08	99.81
66.0-67.0	4.0	0.4	532.4	0.08	99.89
67.0-68.0	3.0	0.3	532.7	0.06	99.95
68.0-69.0	1.9	0.2	532.9	0.04	99.98
69.0-70.0	0.8	0.1	532.9	0.02	100.00
70.0-71.0	0.1	0.0	533.0	0.00	100.00
71.0-72.0	0.0	0.0	533.0	0.00	100.00

C Plane (°):0.0-180.0: 180.0
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Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
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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	3350.4	3350.4								
G1.0	3424.7	3206.7								
G2.0	3429.6	3000.1								
G3.0	3368.1	2757.2								
G4.0	3251.6	2492.3								
G5.0	3087.9	2221.9								
G6.0	2890.3	1956.6								
G7.0	2665.3	1698.2								
G8.0	2421.0	1458.3								
G9.0	2166.1	1237.4								
G10.0	1909.8	1036.0								
G11.0	1658.4	854.6								
G12.0	1423.0	695.9								
G13.0	1205.0	564.8								
G14.0	1008.5	469.2								
G15.0	844.1	397.9								
G16.0	713.9	342.6								
G17.0	608.8	298.0								
G18.0	524.7	260.8								
G19.0	454.2	228.4								
G20.0	393.7	201.5								
G21.0	342.0	178.4								
G22.0	297.6	158.7								
G23.0	259.6	141.7								
G24.0	226.9	126.7								
G25.0	198.6	113.7								
G26.0	174.6	102.1								
G27.0	153.4	92.0								
G28.0	135.1	83.0								
G29.0	119.1	75.4								
G30.0	105.3	68.5								
G31.0	94.0	62.6								
G32.0	83.9	57.3								
G33.0	75.2	52.4								
G34.0	67.6	47.7								
G35.0	60.2	43.8								
G36.0	54.0	40.1								

C Plane (°):0.0-180.0: 180.0

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Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	48.5	36.6								
G38.0	43.4	33.5								
G39.0	38.9	30.5								
G40.0	34.7	27.8								
G41.0	30.6	25.2								
G42.0	27.3	22.7								
G43.0	24.0	20.4								
G44.0	21.2	18.9								
G45.0	19.2	17.4								
G46.0	18.0	16.4								
G47.0	16.5	15.2								
G48.0	15.0	13.8								
G49.0	13.2	12.2								
G50.0	11.3	11.0								
G51.0	9.6	9.6								
G52.0	7.5	8.4								
G53.0	6.3	7.7								
G54.0	5.6	6.5								
G55.0	5.4	6.0								
G56.0	5.4	6.0								
G57.0	5.1	5.9								
G58.0	5.1	6.0								
G59.0	5.1	5.7								
G60.0	4.9	5.6								
G61.0	4.8	5.4								
G62.0	4.8	5.3								
G63.0	4.8	5.1								
G64.0	4.7	5.1								
G65.0	4.3	4.8								
G66.0	4.2	4.7								
G67.0	2.8	4.2								
G68.0	2.0	2.8								
G69.0	1.0	1.8								
G70.0	0.0	0.4								
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:

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Temperature:

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Gamma Plane (°):0.0-90.0:1.0

Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

Unit: cd

[illegible]

Inspector: