

Report No.:

Test Time: 2026-09-30 14:31

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 50D

Luminous Length (mm): -68

Voltage: 226.4 V

Power: 24.40 W

Lamp Description: Blx V10A F90 3000K

Luminous Width (mm): -68

Current: 0.111 A

Power Factor: 0.969

Photometric Results

CIE Class: Direct

Measurement Flux: 2299 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H52.6

Vertical Diffuse Angle(50%): V52.6

Luminaire Efficacy Rating (LER): 94.27

Max. Intensity: 3114.36 cd

S/MH(C0/C180): 0.88

Total Rated Lamp Lumens: 2299.0 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 3022.92 cd

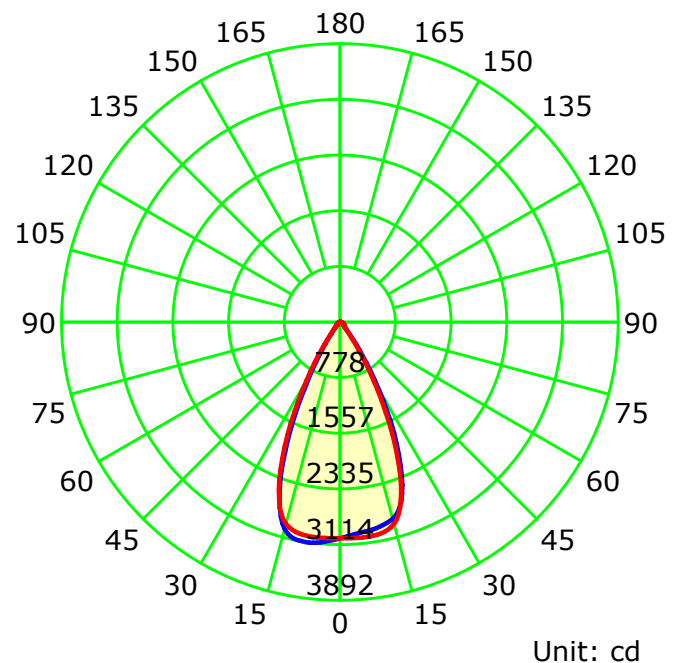
Pos of Max. Intensity: H180 V9

S/MH(C90/C270): 0.88

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

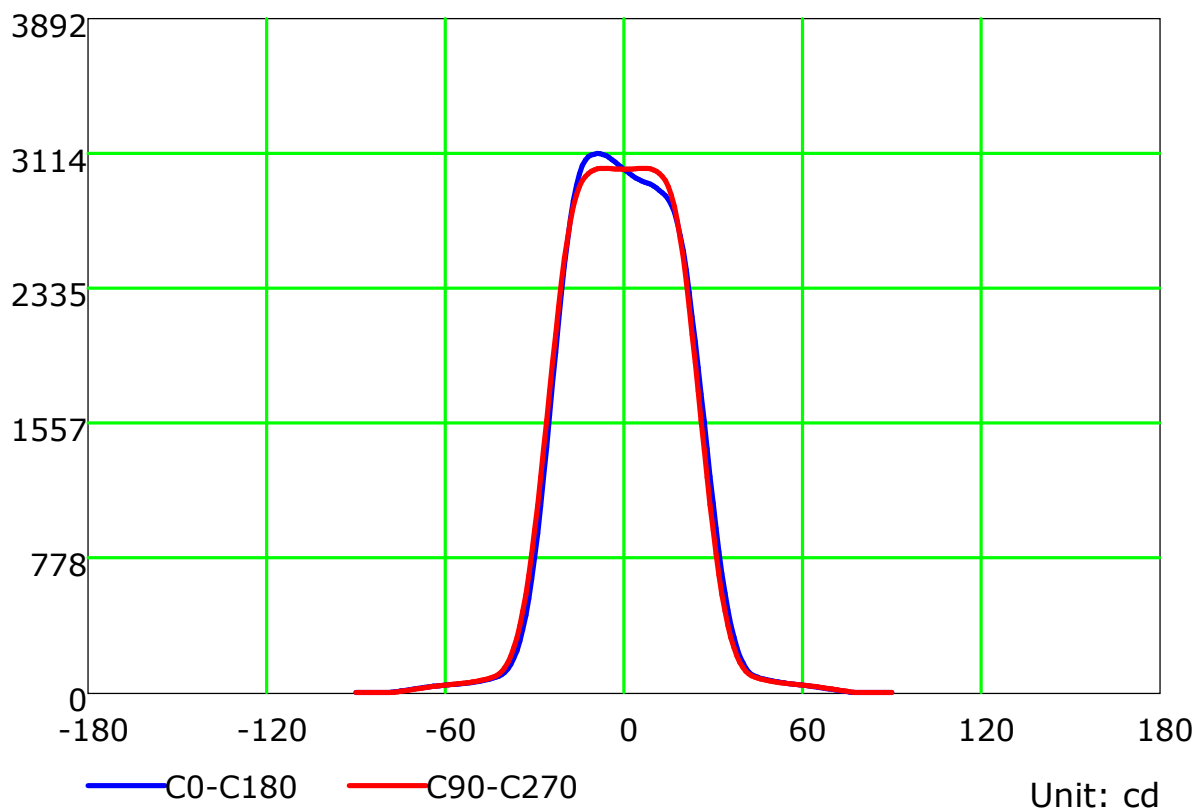
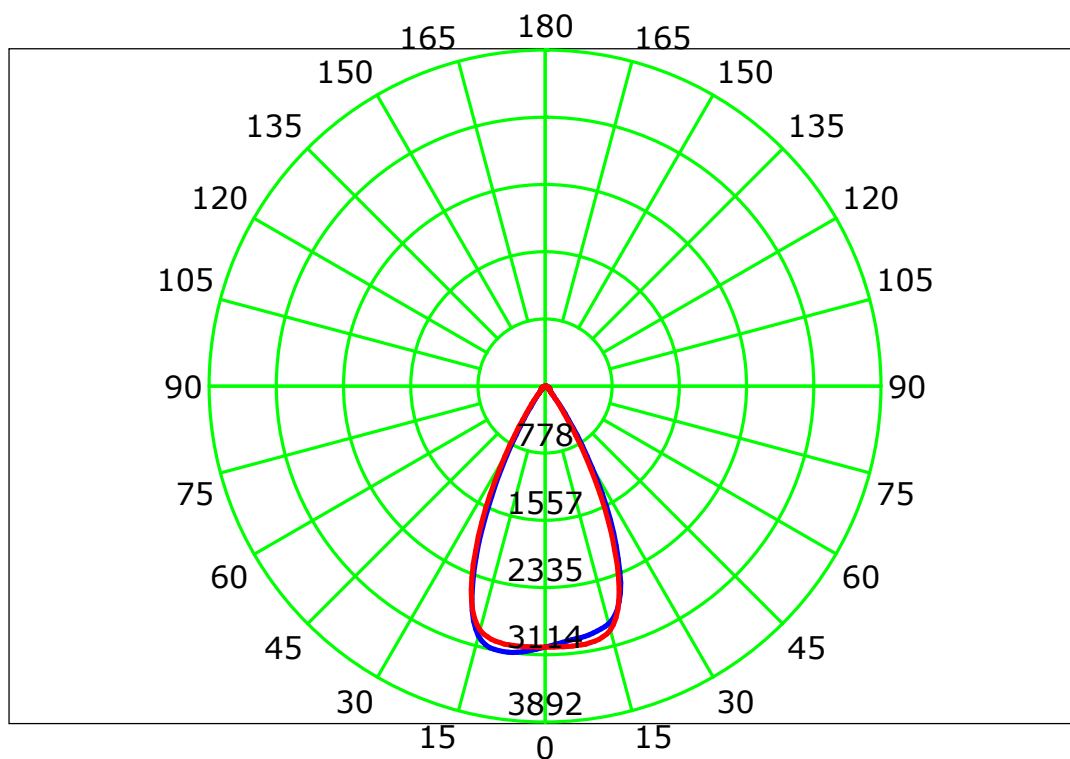
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

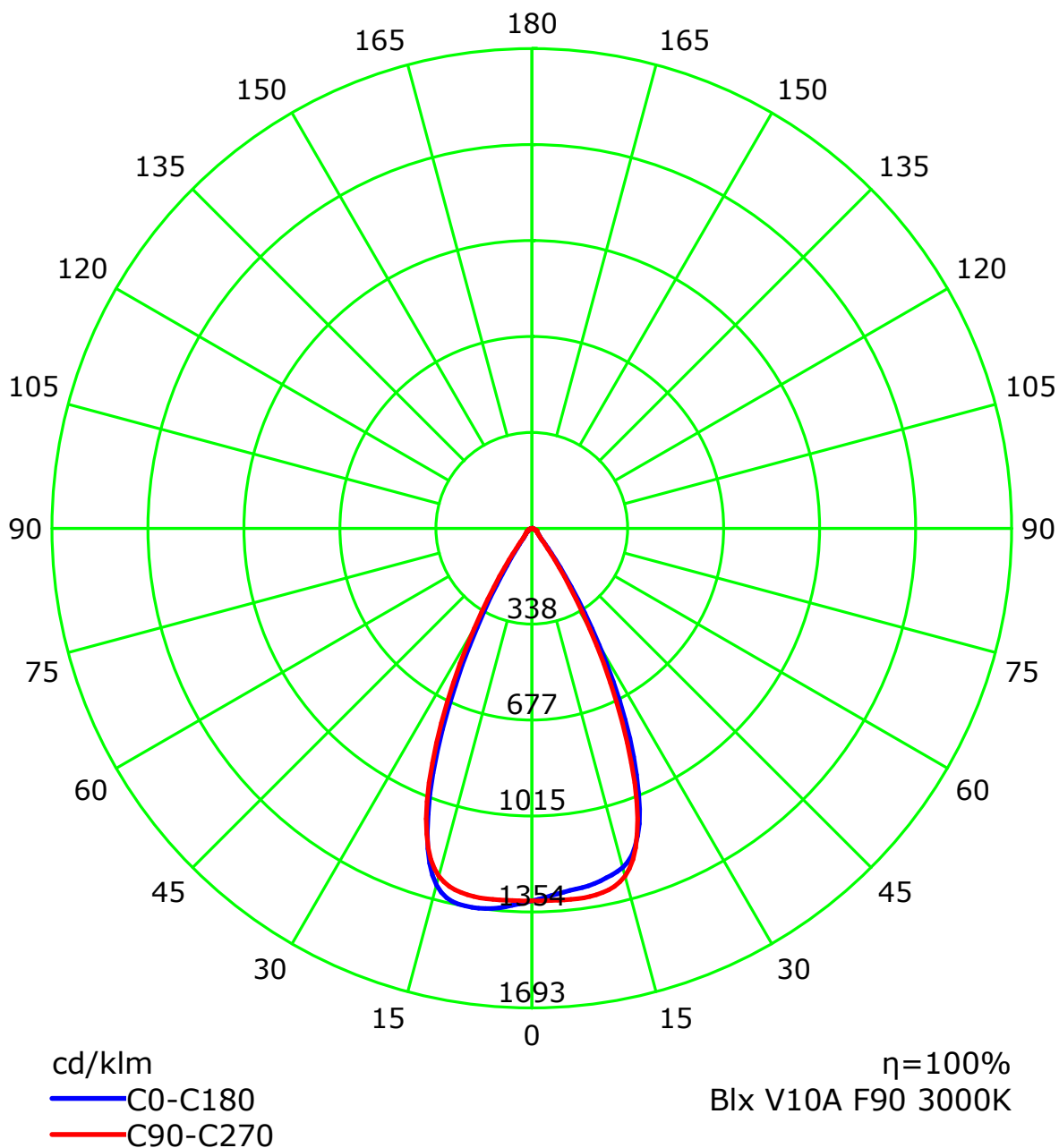
Luminous Intensity Distribution Curve



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:

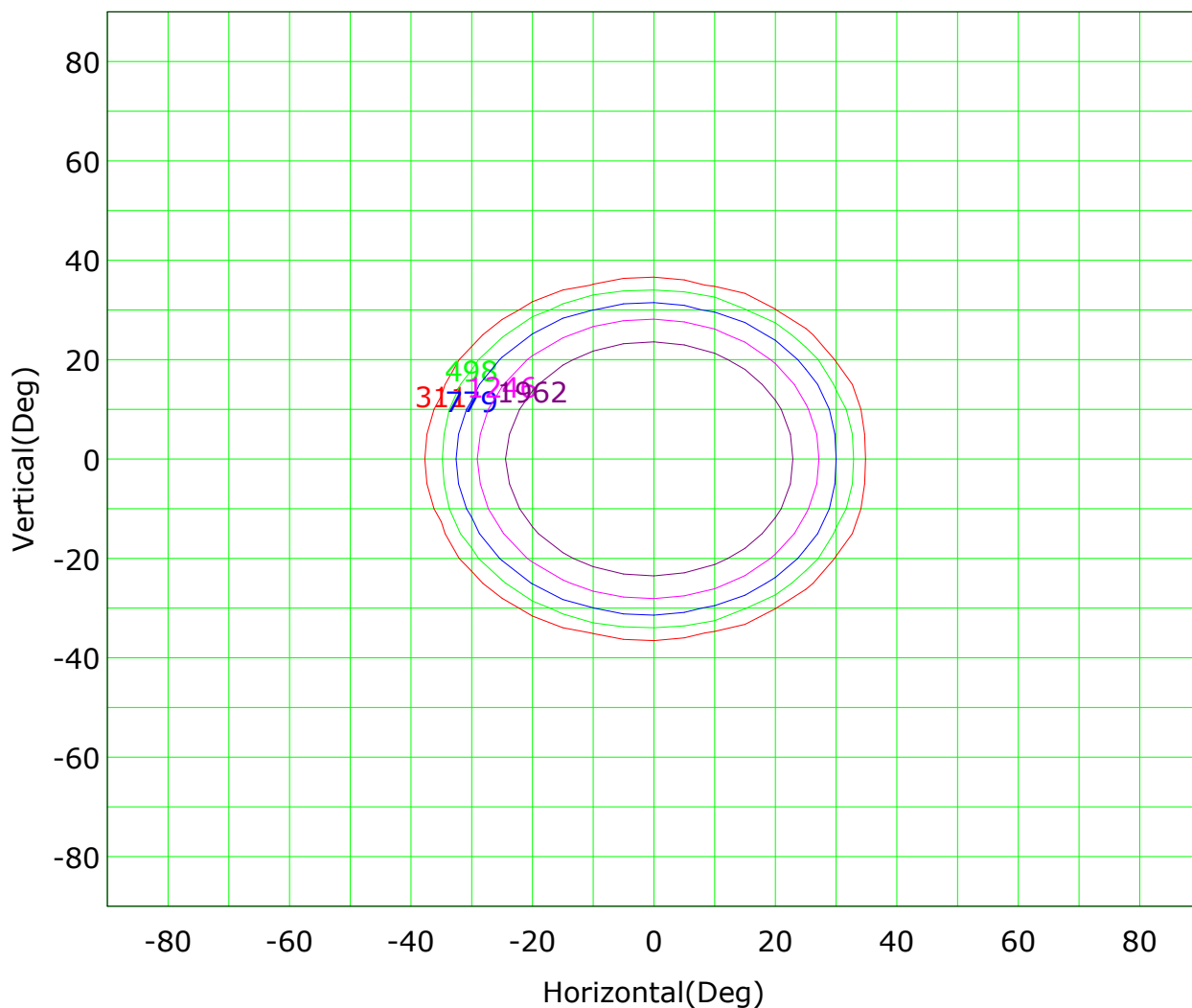
Luminous Intensity Distribution Curve(cd/klm)



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%): 3114 cd

(10%): 311 cd	(16%): 498 cd
(25%): 779 cd	(40%): 1246 cd
(63%): 1962 cd	(100%): 3114 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

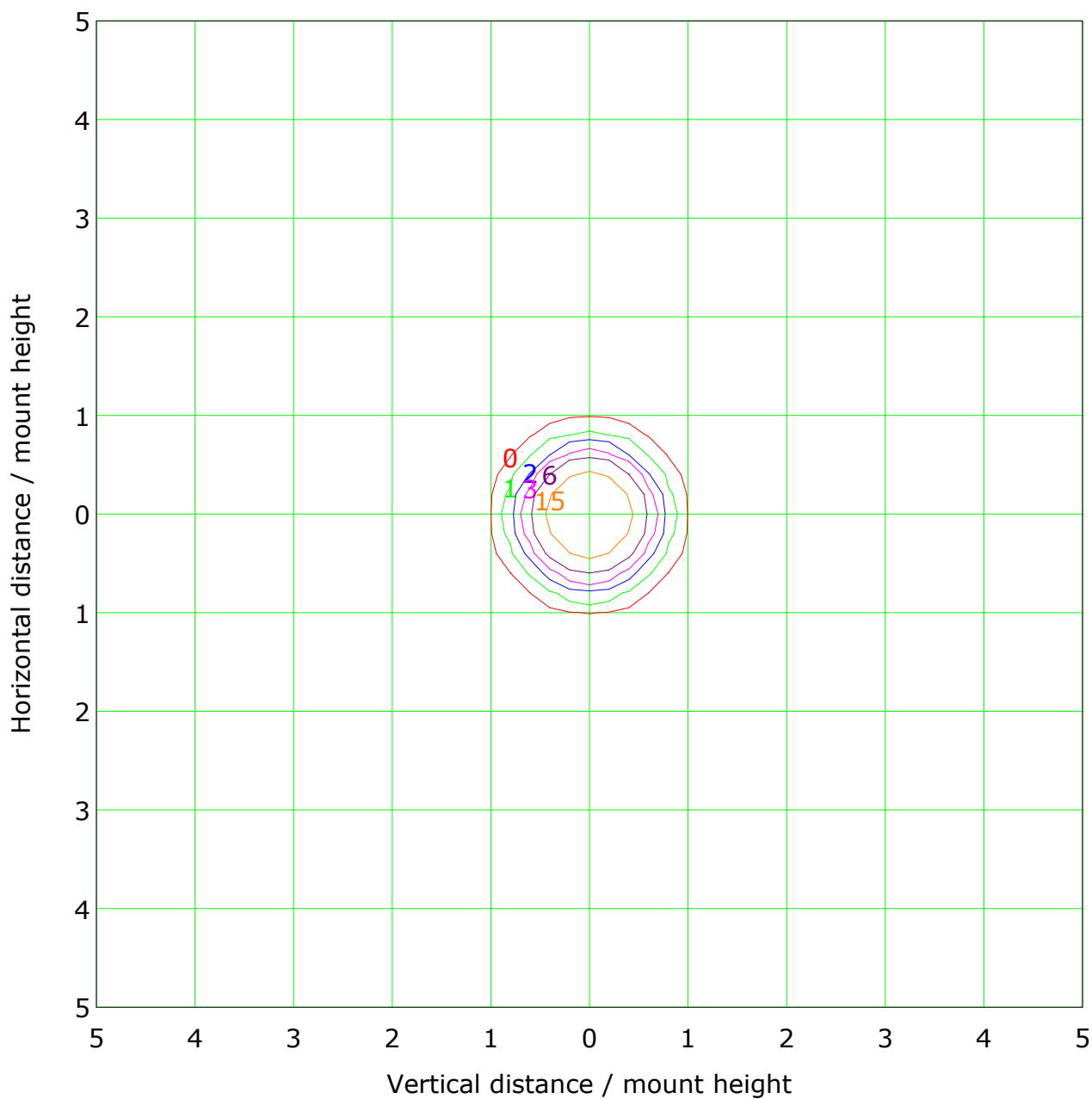
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

IsoLux Plot



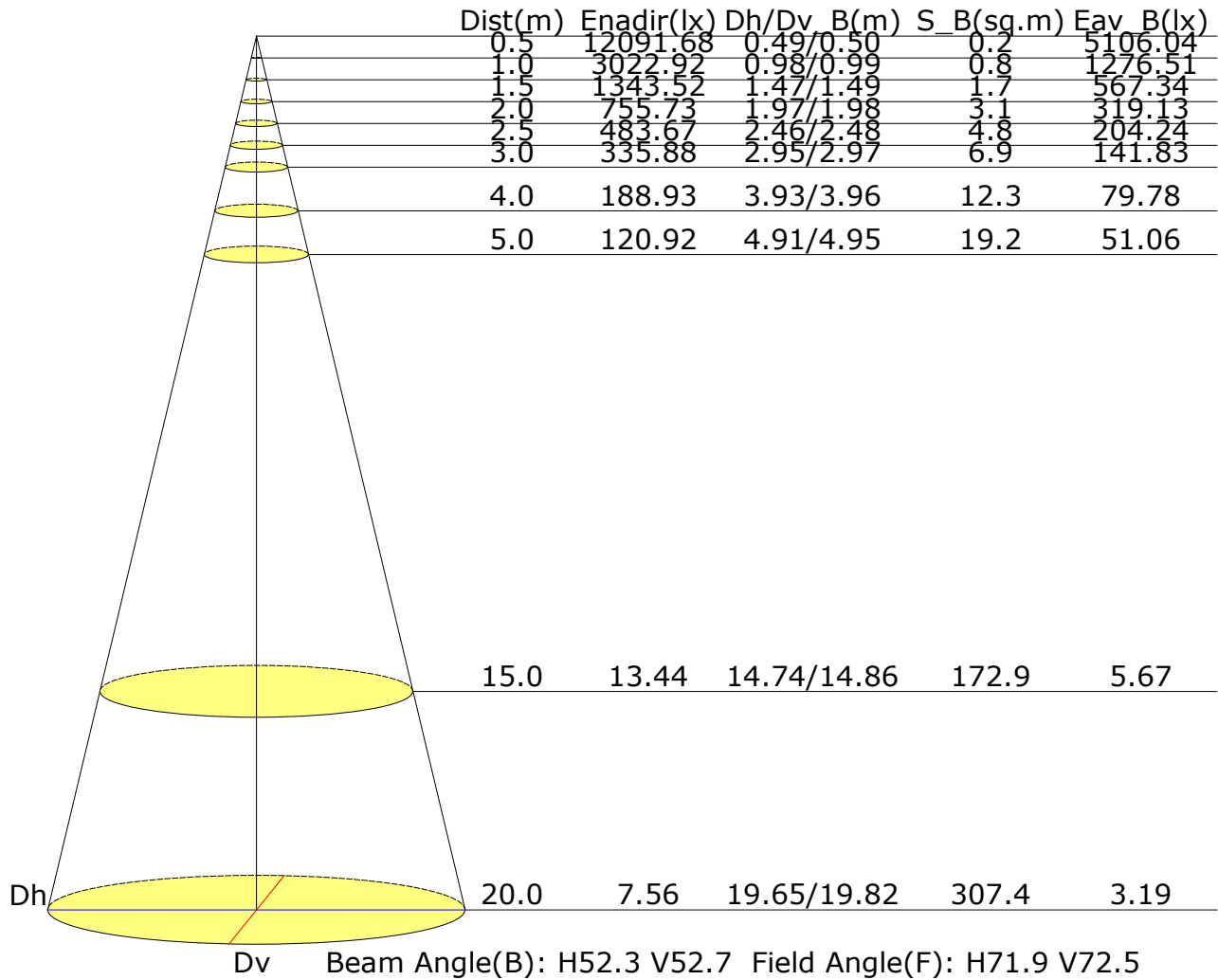
Mounting Height: 10.0m Max Lux(100%): 30.6 lx

(1%): 0.3 lx	(2%): 0.6 lx
(5%): 1.5 lx	(10%): 3.1 lx
(20%): 6.1 lx	(50%): 15.3 lx
(100%): 30.6 lx	

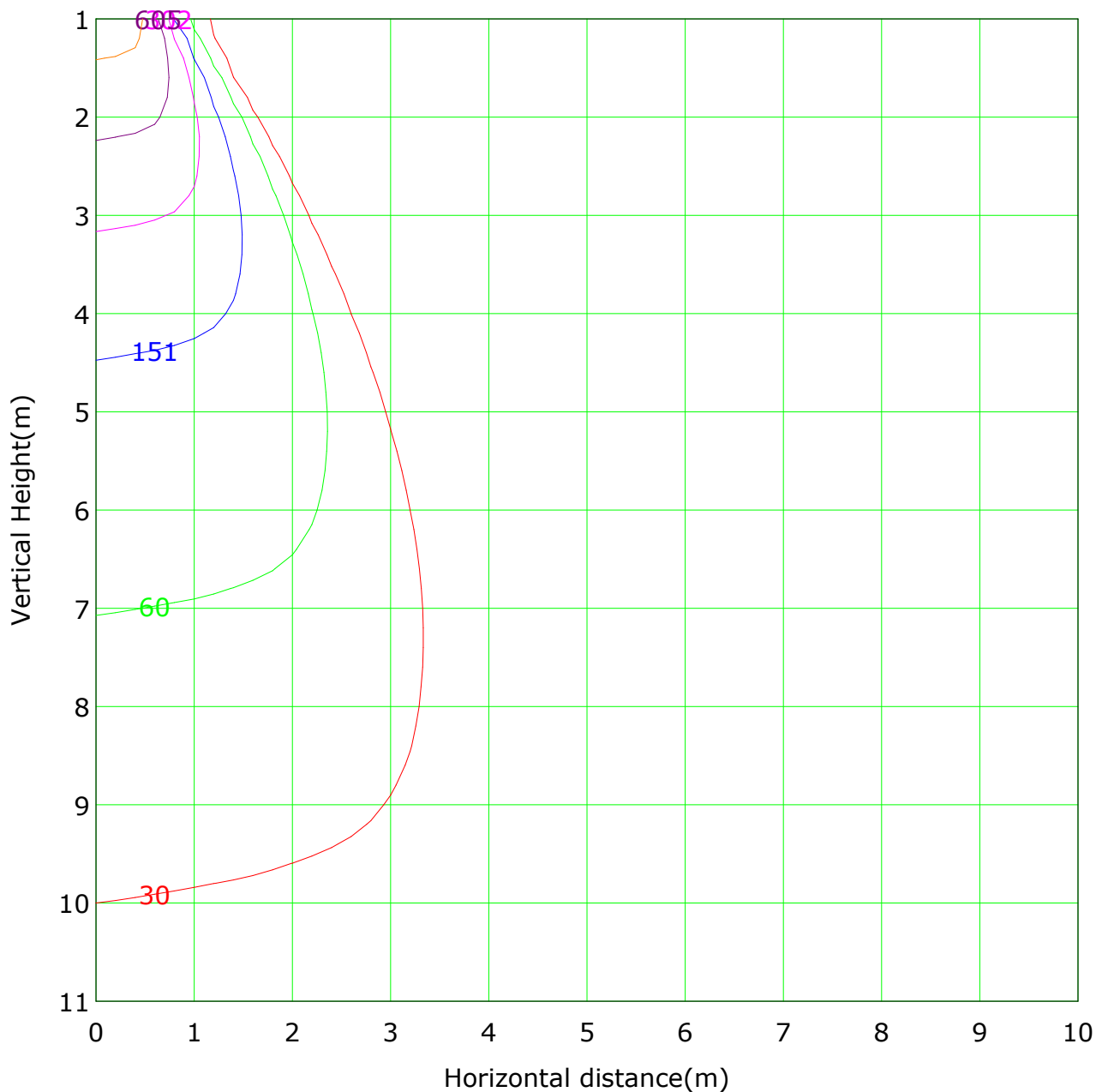
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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: 3022.9 lx
— (1%): 30.2 lx — (2%): 60.5 lx
— (5%): 151.1 lx — (10%): 302.3 lx
— (20%): 604.6 lx — (50%): 1511.5 lx
— (100%): 3022.9 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: 3.010 m
Humidity:
Inspector:

Area Flux Table

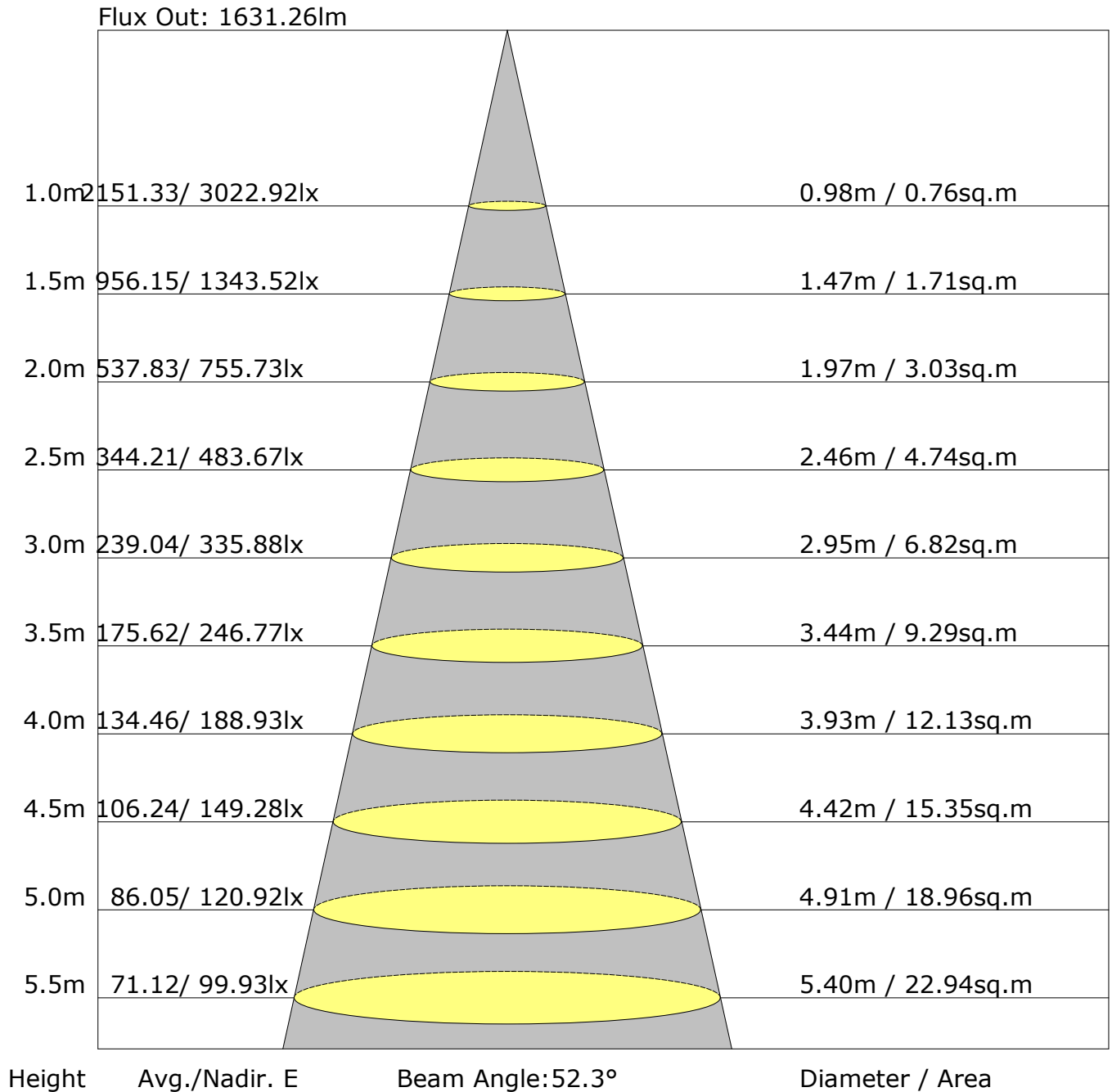
Unit: lm

		Vertical plane																				
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90		
Flux(E)	Flux(T)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.6	0.0	0.6	3.7	8.6	15.6	42.8	177.2	386.2	489.7	487.1	394.3	207.3	56.5	16.6	8.5	3.3	0.4	0.0	0.0	2298	
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2084

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:

The Average Illuminance Effective Figure



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:

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	20.6	21.4	20.9	21.6	21.8	20.1	20.9	20.3	21.1	21.3
3H	20.9	21.6	21.2	21.9	22.1	20.5	21.2	20.7	21.4	21.7
4H	20.9	21.6	21.2	21.8	22.1	20.5	21.2	20.8	21.4	21.7
6H	20.8	21.5	21.1	21.7	22.0	20.4	21.1	20.7	21.3	21.6
8H	20.8	21.4	21.1	21.7	22.0	20.4	21.0	20.7	21.3	21.6
12H	20.7	21.3	21.1	21.6	22.0	20.3	20.9	20.7	21.2	21.6
X=4H Y=2H	20.7	21.4	21.0	21.7	21.9	20.2	20.9	20.5	21.1	21.4
3H	21.1	21.6	21.4	22.0	22.3	20.7	21.3	21.0	21.6	21.9
4H	21.1	21.6	21.4	21.9	22.3	20.7	21.2	21.1	21.6	21.9
6H	21.0	21.4	21.4	21.8	22.2	20.6	21.1	21.0	21.5	21.9
8H	20.9	21.4	21.4	21.7	22.2	20.6	21.0	21.0	21.4	21.8
12H	20.9	21.3	21.3	21.7	22.1	20.5	20.9	21.0	21.3	21.8
X=8H Y=4H	21.0	21.4	21.4	21.8	22.2	20.6	21.1	21.1	21.5	21.9
6H	20.9	21.2	21.3	21.7	22.1	20.6	20.9	21.0	21.3	21.8
8H	20.8	21.1	21.3	21.6	22.1	20.5	20.8	21.0	21.3	21.7
12H	20.8	21.1	21.3	21.5	22.0	20.5	20.7	21.0	21.2	21.7
X=12H Y=4H	20.9	21.3	21.4	21.7	22.2	20.6	21.0	21.0	21.4	21.8
6H	20.8	21.1	21.3	21.6	22.1	20.5	20.8	21.0	21.3	21.7
8H	20.8	21.1	21.3	21.5	22.0	20.5	20.7	21.0	21.2	21.7
Variations with the observer position at spacings:										
S=1.0H	+4.3/-2.7					+3.8/-2.3				
S=1.5H	+6.8/-3.2					+6.2/-2.7				
S=2.0H	+8.7/-4.2					+8.1/-3.5				

Calculate in accordance with CIE Pub.117. The table is revised with 2299lm ($8\log(F/F_0) = 2.9$).

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	1174	51.1
	FL (0°-30°)	947	41.2
	FM (30°-60°)	207	9.0
	FH (60°-80°)	20	0.9
	FVH (80°-90°)	0	0.0
	BACK LIGHT	1125	48.9
	BL (0°-30°)	927	40.3
	BM (30°-60°)	176	7.6
	BH (60°-80°)	21	0.9
	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)	B2 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B2 U0 G0

C Plane (°):0.0-180.0: 180.0
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Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.010 m
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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	3023.8	2.9	2.9	0.13	0.13
1.0-2.0	3024.2	8.7	11.6	0.38	0.50
2.0-3.0	3024.4	14.5	26.0	0.63	1.13
3.0-4.0	3025.7	20.3	46.3	0.88	2.01
4.0-5.0	3027.2	26.0	72.3	1.13	3.15
5.0-6.0	3028.3	31.8	104.2	1.38	4.53
6.0-7.0	3028.6	37.6	141.8	1.64	6.17
7.0-8.0	3028.8	43.4	185.1	1.89	8.05
8.0-9.0	3027.2	49.1	234.2	2.13	10.19
9.0-10.0	3022.1	54.7	288.9	2.38	12.57
10.0-11.0	3014.9	60.2	349.1	2.62	15.19
11.0-12.0	3005.1	65.7	414.8	2.86	18.04
12.0-13.0	2990.9	71.0	485.8	3.09	21.13
13.0-14.0	2970.2	76.0	561.9	3.31	24.44
14.0-15.0	2940.3	80.7	642.6	3.51	27.95
15.0-16.0	2898.7	84.9	727.5	3.69	31.65
16.0-17.0	2841.6	88.5	816.0	3.85	35.50
17.0-18.0	2766.7	91.2	907.3	3.97	39.46
18.0-19.0	2674.3	93.1	1000.3	4.05	43.51
19.0-20.0	2566.3	93.9	1094.3	4.09	47.60
20.0-21.0	2442.5	93.8	1188.1	4.08	51.68
21.0-22.0	2302.0	92.5	1280.6	4.02	55.70
22.0-23.0	2148.1	90.1	1370.7	3.92	59.62
23.0-24.0	1987.8	86.9	1457.7	3.78	63.40
24.0-25.0	1824.8	83.0	1540.6	3.61	67.01
25.0-26.0	1657.8	78.3	1618.9	3.40	70.42
26.0-27.0	1490.0	72.9	1691.8	3.17	73.59
27.0-28.0	1324.8	67.1	1758.9	2.92	76.51
28.0-29.0	1163.8	60.9	1819.8	2.65	79.16
29.0-30.0	1011.4	54.6	1874.4	2.38	81.53
30.0-31.0	870.4	48.4	1922.9	2.11	83.64
31.0-32.0	740.5	42.4	1965.3	1.85	85.48
32.0-33.0	622.9	36.7	2002.0	1.60	87.08
33.0-34.0	518.8	31.4	2033.4	1.37	88.45
34.0-35.0	428.7	26.6	2060.0	1.16	89.60
35.0-36.0	352.0	22.4	2082.4	0.98	90.58

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	288.2	18.8	2101.2	0.82	91.40
37.0-38.0	235.3	15.7	2116.9	0.68	92.08
38.0-39.0	192.6	13.1	2130.1	0.57	92.65
39.0-40.0	159.3	11.1	2141.2	0.48	93.14
40.0-41.0	134.0	9.5	2150.7	0.42	93.55
41.0-42.0	115.5	8.4	2159.1	0.37	93.92
42.0-43.0	102.5	7.6	2166.7	0.33	94.25
43.0-44.0	93.5	7.1	2173.8	0.31	94.55
44.0-45.0	86.8	6.7	2180.5	0.29	94.84
45.0-46.0	81.3	6.4	2186.8	0.28	95.12
46.0-47.0	76.6	6.1	2192.9	0.27	95.39
47.0-48.0	72.7	5.9	2198.8	0.26	95.64
48.0-49.0	69.2	5.7	2204.5	0.25	95.89
49.0-50.0	65.9	5.5	2210.0	0.24	96.13
50.0-51.0	63.0	5.3	2215.3	0.23	96.36
51.0-52.0	60.4	5.2	2220.5	0.23	96.58
52.0-53.0	58.0	5.0	2225.5	0.22	96.80
53.0-54.0	55.7	4.9	2230.4	0.21	97.02
54.0-55.0	53.4	4.8	2235.2	0.21	97.22
55.0-56.0	51.4	4.6	2239.9	0.20	97.43
56.0-57.0	49.5	4.5	2244.4	0.20	97.62
57.0-58.0	47.6	4.4	2248.8	0.19	97.81
58.0-59.0	45.9	4.3	2253.1	0.19	98.00
59.0-60.0	44.3	4.2	2257.3	0.18	98.18
60.0-61.0	42.6	4.1	2261.3	0.18	98.36
61.0-62.0	40.8	3.9	2265.3	0.17	98.53
62.0-63.0	38.8	3.8	2269.0	0.16	98.70
63.0-64.0	36.8	3.6	2272.7	0.16	98.85
64.0-65.0	34.7	3.4	2276.1	0.15	99.00
65.0-66.0	32.2	3.2	2279.3	0.14	99.14
66.0-67.0	29.7	3.0	2282.3	0.13	99.27
67.0-68.0	27.0	2.7	2285.0	0.12	99.39
68.0-69.0	24.4	2.5	2287.5	0.11	99.50
69.0-70.0	21.8	2.2	2289.7	0.10	99.60
70.0-71.0	19.0	2.0	2291.7	0.09	99.68
71.0-72.0	16.3	1.7	2293.4	0.07	99.76

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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:

Candlepower Table

Unit: cd

G\C	C0.0	C180.0								
G0.0	3022.9	3022.9								
G1.0	3012.4	3036.9								
G2.0	2997.8	3049.8								
G3.0	2985.2	3064.8								
G4.0	2973.7	3079.1								
G5.0	2964.7	3091.5								
G6.0	2955.5	3101.4								
G7.0	2949.1	3108.5								
G8.0	2943.9	3113.8								
G9.0	2936.9	3114.4								
G10.0	2926.7	3110.6								
G11.0	2915.6	3106.7								
G12.0	2900.9	3097.4								
G13.0	2887.9	3077.3								
G14.0	2871.0	3044.7								
G15.0	2849.8	2995.7								
G16.0	2818.9	2930.3								
G17.0	2775.0	2842.0								
G18.0	2713.9	2735.7								
G19.0	2639.3	2608.2								
G20.0	2551.2	2466.5								
G21.0	2442.2	2310.2								
G22.0	2313.2	2142.5								
G23.0	2172.1	1964.7								
G24.0	2029.1	1785.5								
G25.0	1880.8	1603.6								
G26.0	1726.5	1420.3								
G27.0	1569.1	1244.1								
G28.0	1409.5	1076.7								
G29.0	1249.8	919.5								
G30.0	1096.5	780.0								
G31.0	950.1	654.9								
G32.0	813.6	543.4								
G33.0	688.2	446.2								
G34.0	575.8	364.8								
G35.0	477.1	297.1								
G36.0	392.2	241.6								

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: 3.010 m
Humidity:
Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	320.9	198.0								
G38.0	259.0	163.5								
G39.0	210.8	136.9								
G40.0	172.5	117.1								
G41.0	141.7	104.8								
G42.0	119.5	96.1								
G43.0	105.3	89.3								
G44.0	96.1	83.5								
G45.0	89.0	78.5								
G46.0	83.0	74.5								
G47.0	78.2	70.9								
G48.0	74.2	67.7								
G49.0	70.4	64.4								
G50.0	67.1	61.7								
G51.0	64.1	59.2								
G52.0	61.4	56.8								
G53.0	58.8	55.0								
G54.0	56.0	52.8								
G55.0	53.3	51.3								
G56.0	51.2	49.5								
G57.0	49.1	48.0								
G58.0	46.8	46.5								
G59.0	45.3	44.9								
G60.0	43.5	43.4								
G61.0	41.6	42.0								
G62.0	39.3	40.4								
G63.0	36.9	38.6								
G64.0	34.7	37.1								
G65.0	32.1	35.0								
G66.0	29.4	32.4								
G67.0	26.7	30.0								
G68.0	24.0	27.3								
G69.0	21.5	24.8								
G70.0	18.6	22.2								
G71.0	15.9	19.4								
G72.0	13.1	16.8								
G73.0	10.7	14.3								

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: 3.010 m

Humidity:

Inspector:

Unit: cd

[illegible]

Test Device: CHL-6E
Distance: 3.010 m
Humidity:
Inspector: