

Report No.:

Test Time: 2026-09-29 17:00

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: MOVA50-AD-300MA-24D

Lamp Description: Blx V4HD F90 3000K

Luminous Width (mm): -43

Current: 0.125 A

Power Factor: 0.530

Luminous Length (mm): -43

Voltage: 223.7 V

Power: 14.90 W

Photometric Results

CIE Class: Direct

Measurement Flux: 613.7 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H22.1

Vertical Diffuse Angle(50%): V22.1

Luminaire Efficacy Rating (LER): 41.24

Max. Intensity: 3403.83 cd

S/MH(C0/C180): 0.38

Total Rated Lamp Lumens: 613.7 lm

Efficiency: 100%

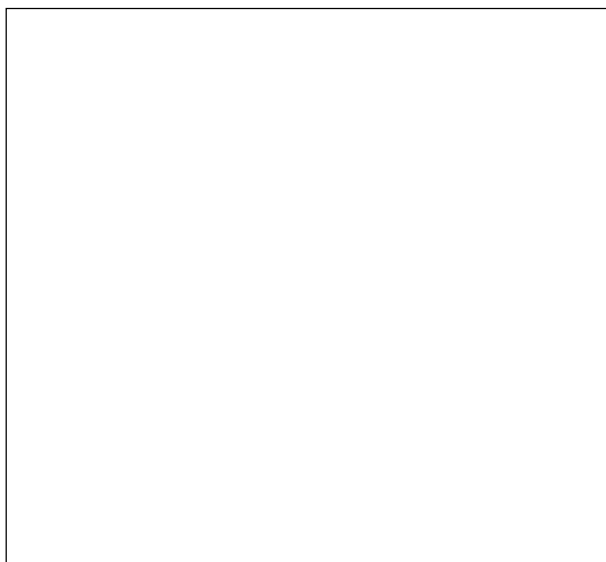
Upward Ratio: 0%

Central Intensity: 3387.31 cd

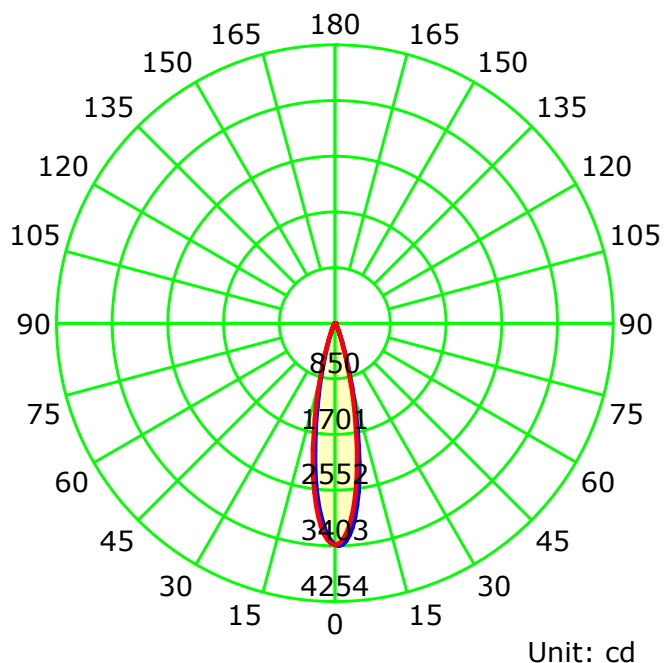
Pos of Max. Intensity: H0 V1

S/MH(C90/C270): 0.38

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

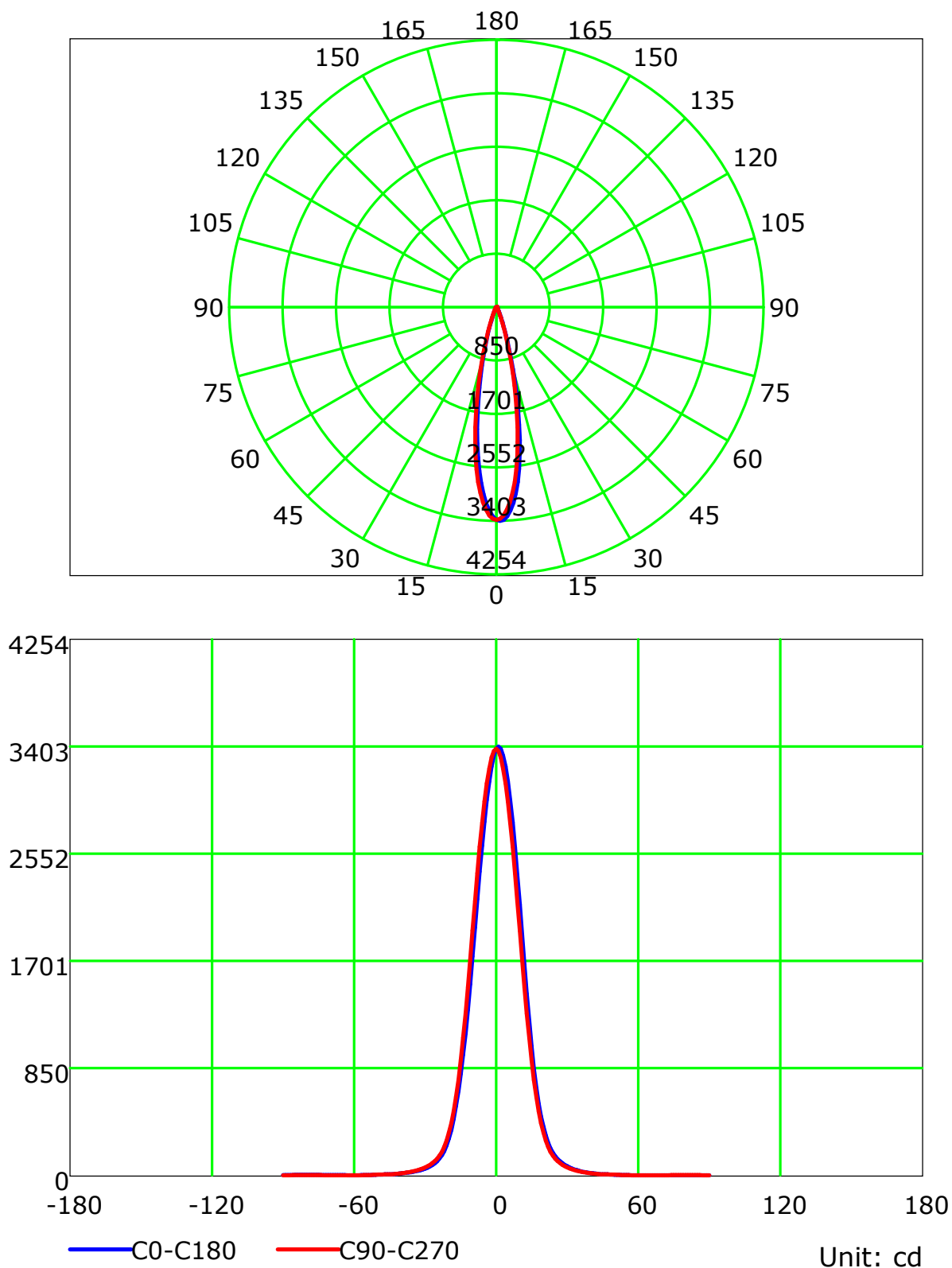
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

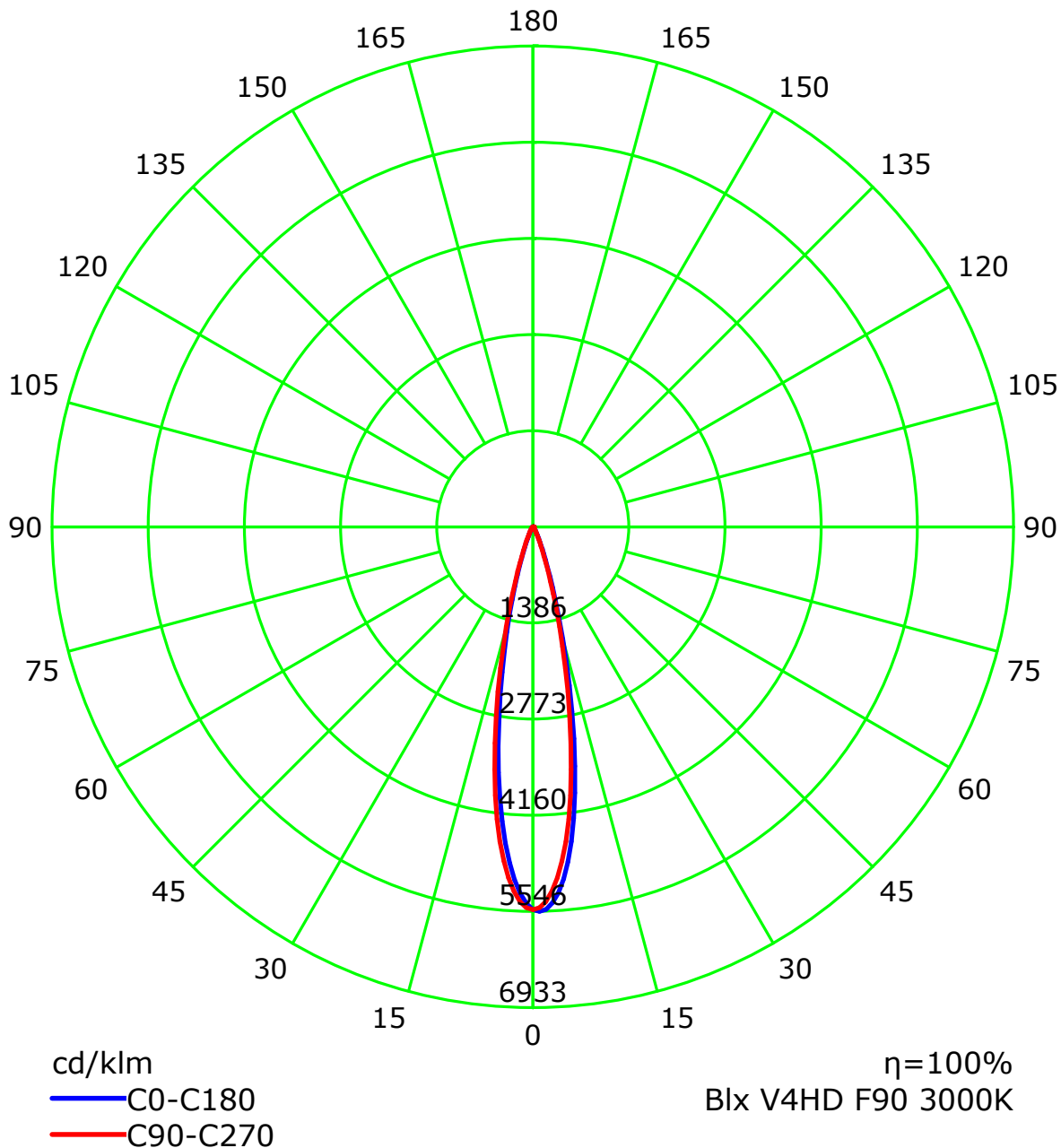
Luminous Intensity Distribution Curve



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:

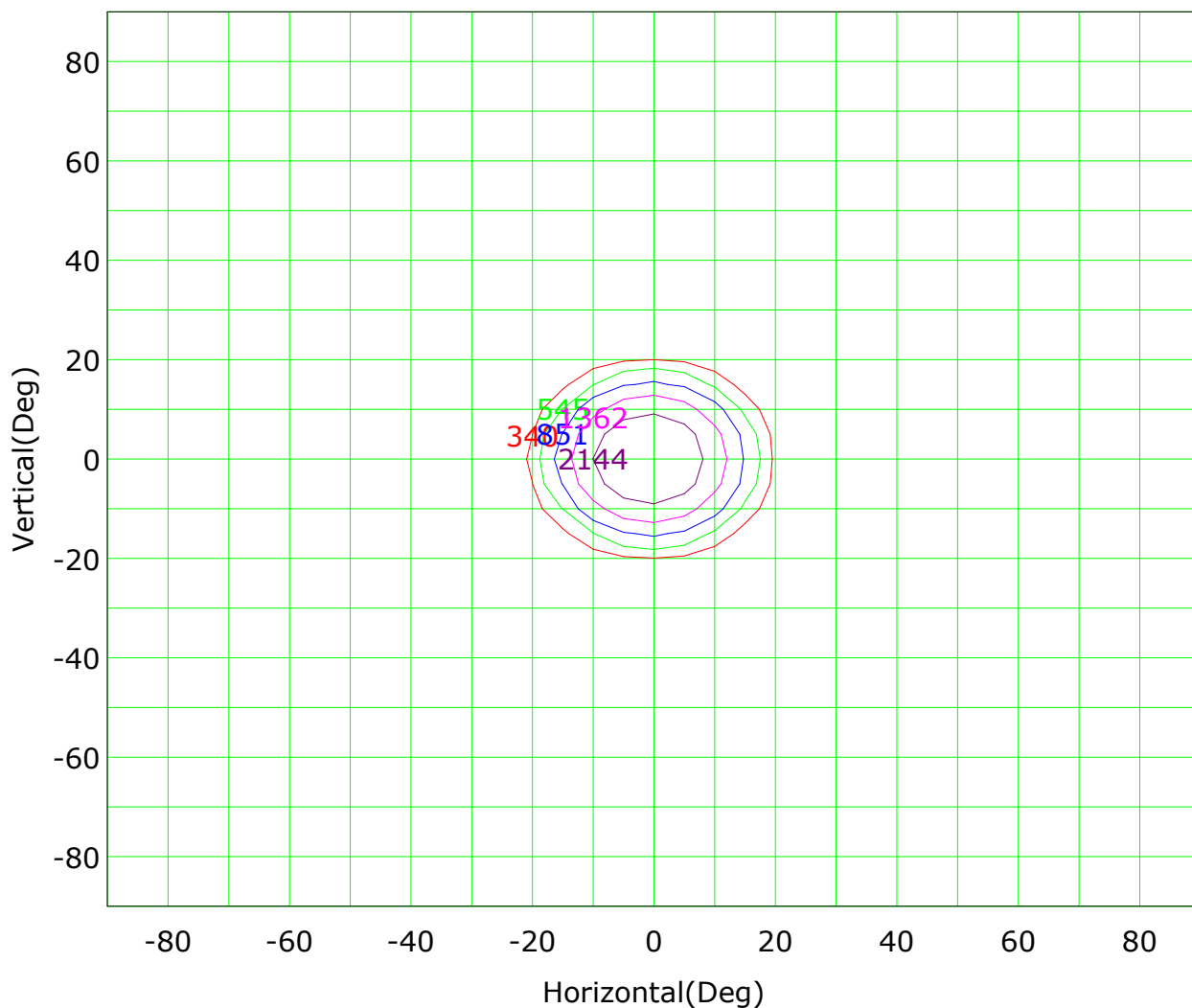
Luminous Intensity Distribution Curve(cd/klm)



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%): 3404 cd

(10%): 340 cd	(16%): 545 cd
(25%): 851 cd	(40%): 1362 cd
(63%): 2144 cd	(100%): 3404 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

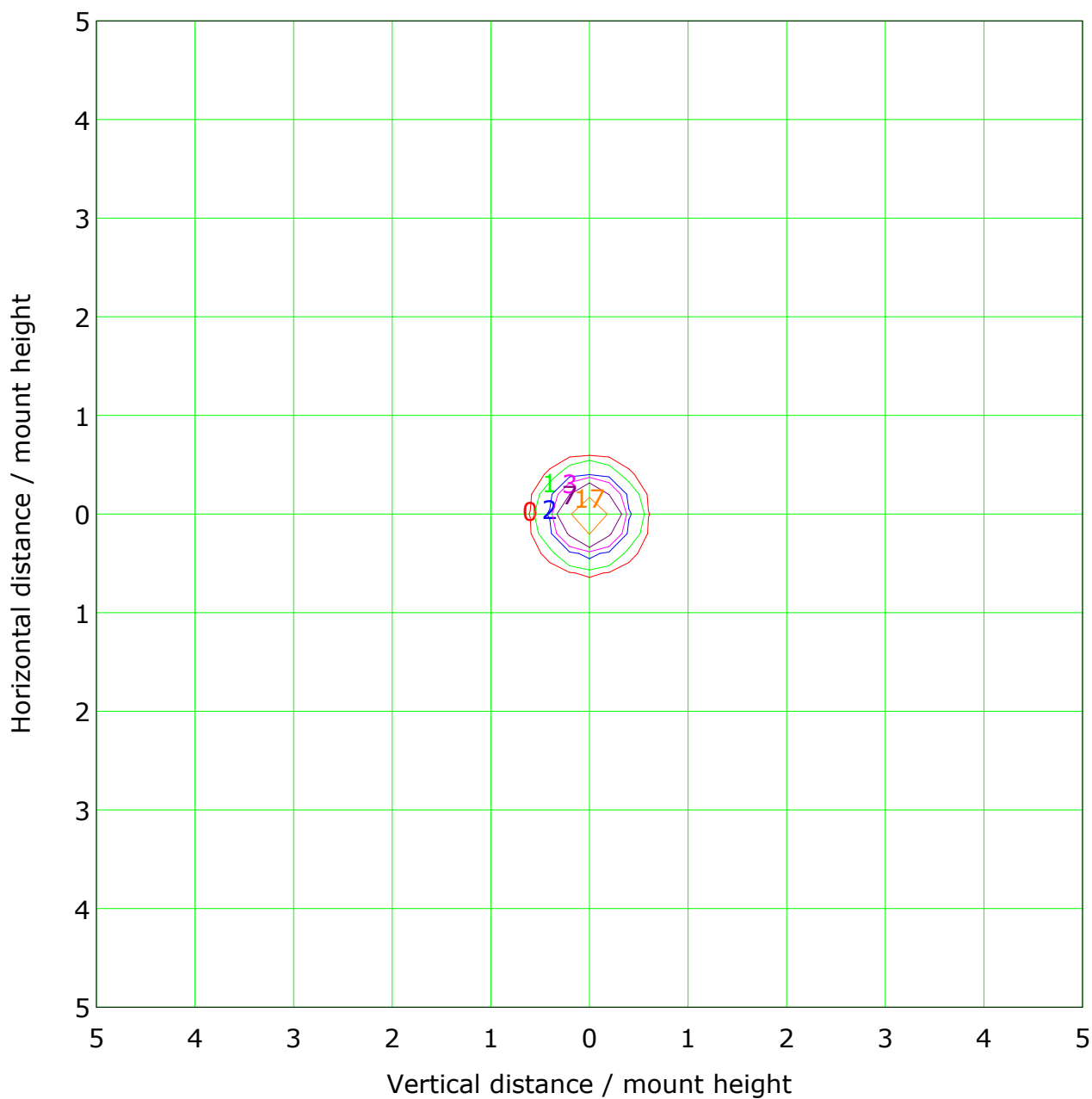
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 34.0 lx

(1%): 0.3 lx	(2%): 0.7 lx
(5%): 1.7 lx	(10%): 3.4 lx
(20%): 6.8 lx	(50%): 17.0 lx
(100%): 34.0 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

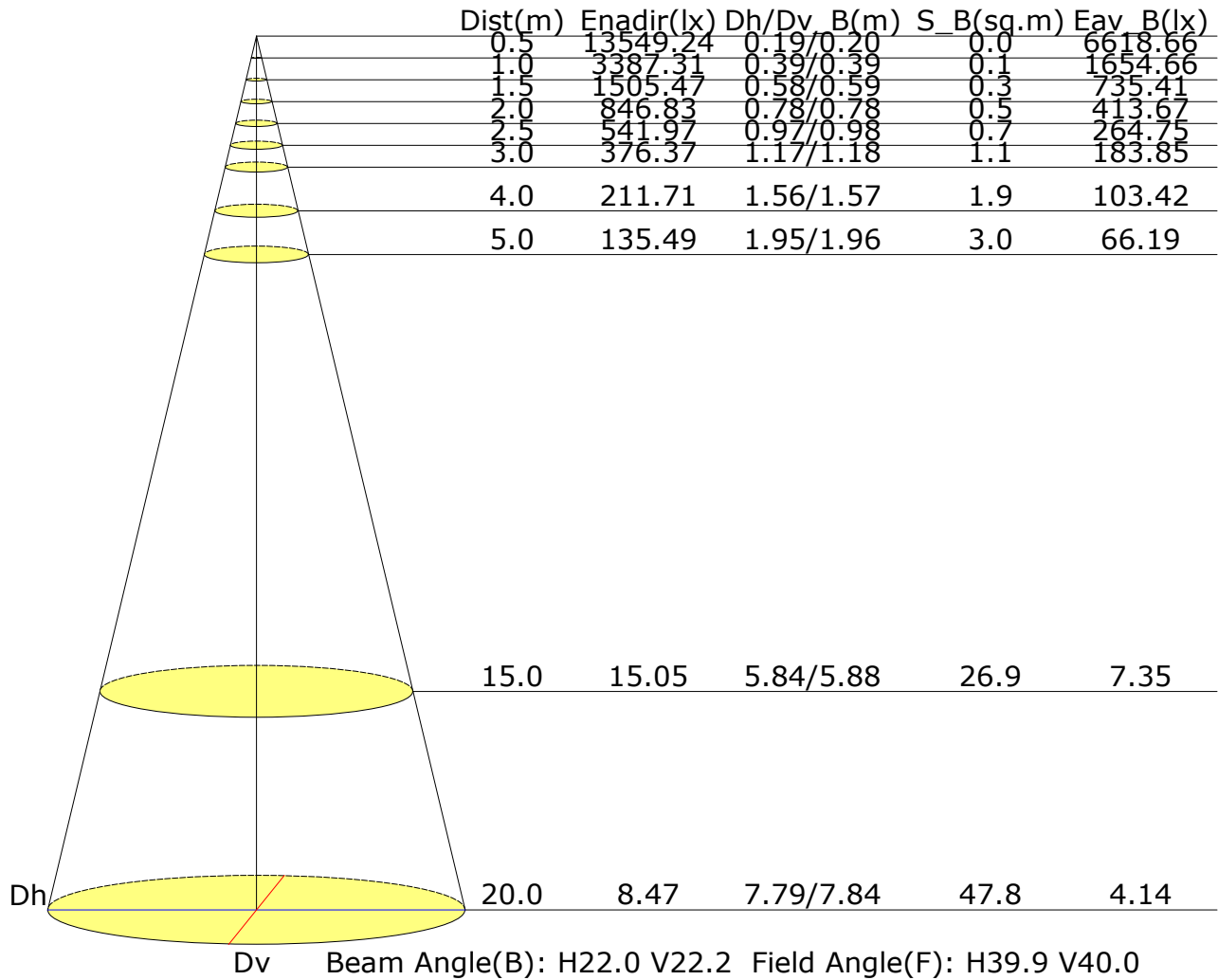
Test Device: CHL-6E

Distance: 3.010 m

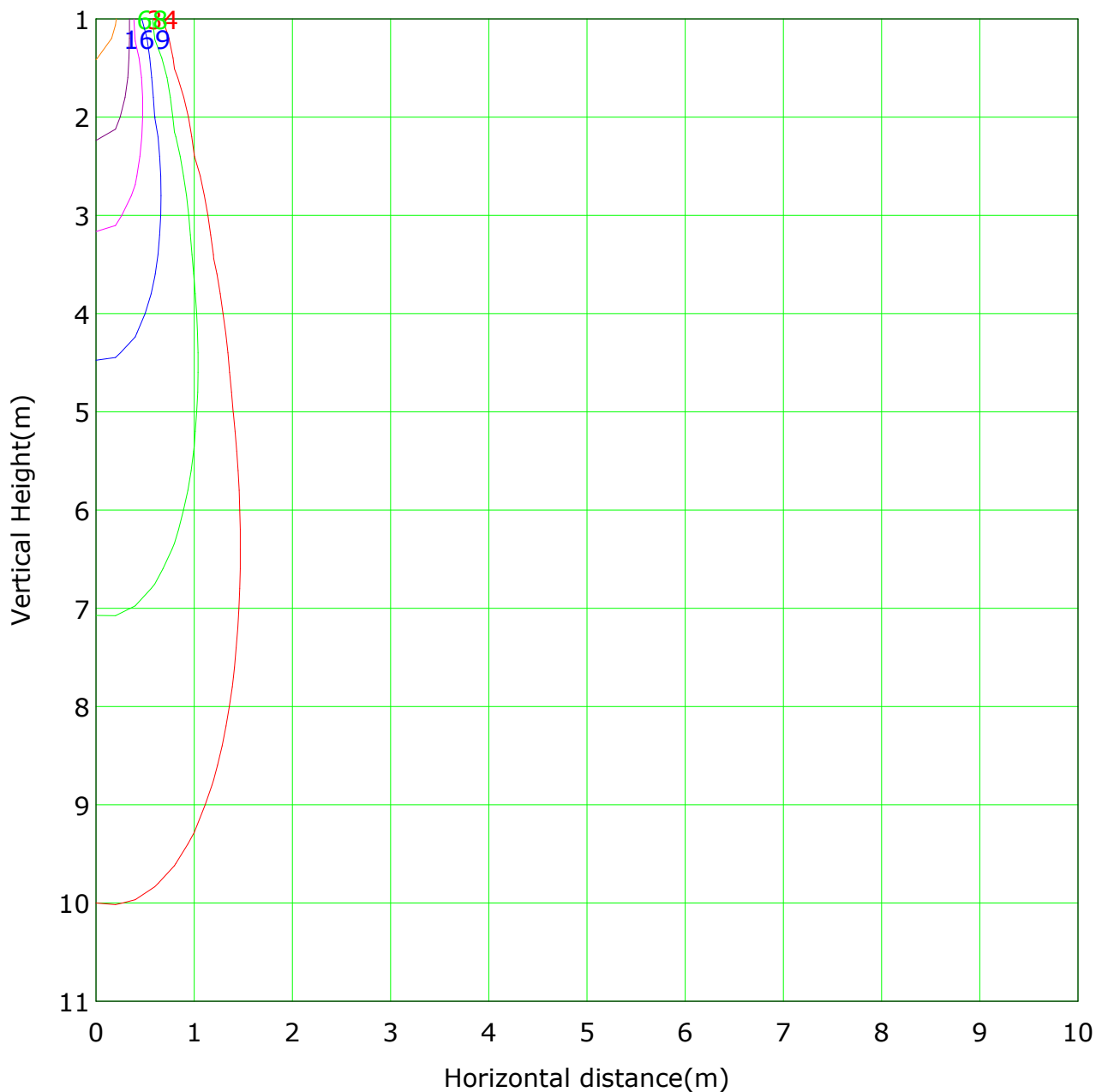
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



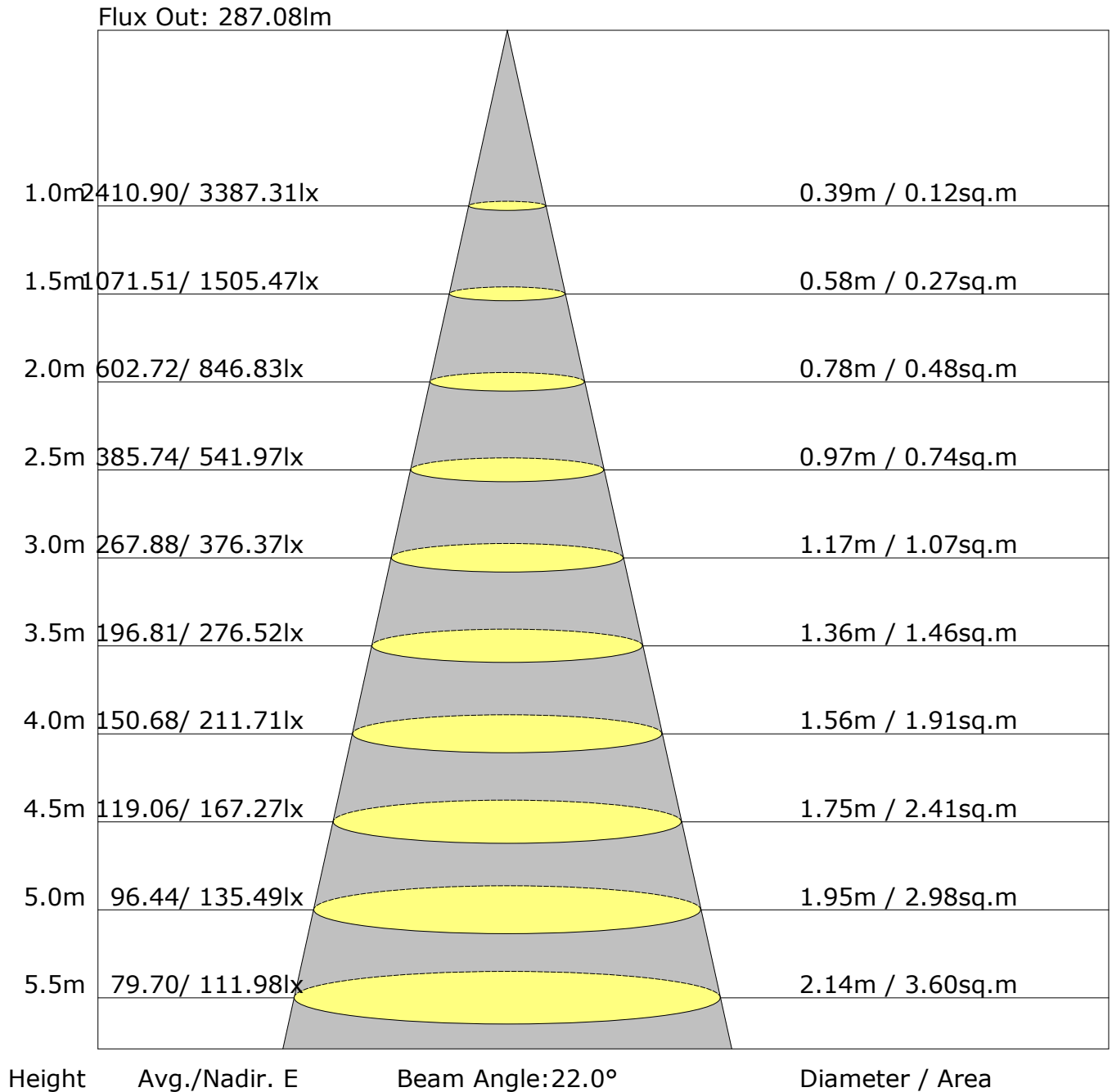
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 3387.3 lx
— (1%): 33.9 lx — (2%): 67.7 lx
— (5%): 169.4 lx — (10%): 338.7 lx
— (20%): 677.5 lx — (50%): 1693.7 lx
— (100%): 3387.3 lx

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: 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



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

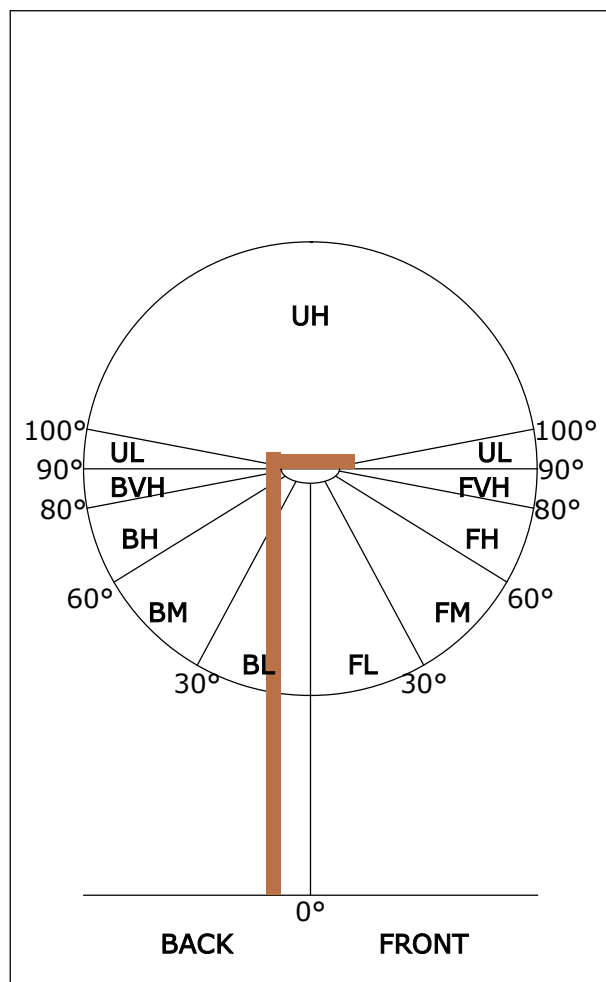
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	10.3	10.9	10.6	11.1	11.3	10.0	10.6	10.3	10.8	11.0
3H	10.2	10.8	10.5	11.0	11.2	10.3	10.8	10.5	11.0	11.3
4H	10.2	10.7	10.5	11.0	11.2	10.9	11.4	11.2	11.6	11.9
6H	10.2	10.6	10.5	10.9	11.2	12.3	12.7	12.6	13.0	13.3
8H	10.2	10.6	10.5	10.9	11.2	13.3	13.7	13.6	14.0	14.3
12H	10.2	10.7	10.6	11.0	11.3	14.3	14.8	14.7	15.1	15.4
X=4H Y=2H	10.2	10.7	10.5	10.9	11.2	9.9	10.4	10.2	10.7	10.9
3H	10.1	10.6	10.5	10.9	11.2	10.3	10.7	10.6	11.0	11.3
4H	10.1	10.5	10.5	10.9	11.2	11.1	11.5	11.5	11.9	12.2
6H	10.2	10.6	10.6	10.9	11.3	13.0	13.4	13.4	13.7	14.1
8H	10.3	10.7	10.7	11.0	11.4	14.3	14.6	14.7	15.0	15.4
12H	10.5	10.8	10.9	11.2	11.6	15.6	15.9	16.0	16.3	16.7
X=8H Y=4H	10.4	10.7	10.8	11.1	11.5	11.3	11.6	11.7	12.0	12.4
6H	10.7	11.0	11.2	11.4	11.9	13.5	13.8	14.0	14.2	14.6
8H	11.0	11.3	11.5	11.7	12.2	15.0	15.2	15.4	15.7	16.1
12H	11.4	11.6	11.9	12.1	12.6	16.6	16.8	17.1	17.3	17.8
X=12H Y=4H	10.5	10.8	11.0	11.2	11.7	11.3	11.6	11.8	12.0	12.5
6H	11.1	11.3	11.6	11.8	12.3	13.6	13.8	14.1	14.3	14.8
8H	11.6	11.8	12.1	12.3	12.8	15.2	15.4	15.7	15.9	16.4
Variations with the observer position at spacings:										
S=1.0H	+3.5/-3.1					+1.9/-1.2				
S=1.5H	+5.9/-4.1					+3.5/-2.2				
S=2.0H	+7.8/-4.4					+5.0/-2.5				

Calculate in accordance with CIE Pub.117. The table is revised with 614lm ($8\log(F/F_0) = -1.7$).

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: 3.010 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	320	52.2
FL (0°-30°)	302	49.2
FM (30°-60°)	17	2.7
FH (60°-80°)	1	0.2
FVH (80°-90°)	1	0.1
BACK LIGHT	293	47.8
BL (0°-30°)	273	44.5
BM (30°-60°)	16	2.5
BH (60°-80°)	3	0.4
BVH (80°-90°)	2	0.3
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	3378.3	3.2	3.2	0.53	0.53
1.0-2.0	3343.2	9.6	12.8	1.56	2.09
2.0-3.0	3273.4	15.7	28.5	2.55	4.64
3.0-4.0	3171.2	21.2	49.7	3.46	8.10
4.0-5.0	3040.4	26.2	75.9	4.26	12.36
5.0-6.0	2883.9	30.3	106.2	4.94	17.30
6.0-7.0	2703.6	33.6	139.8	5.47	22.77
7.0-8.0	2503.2	35.8	175.6	5.84	28.61
8.0-9.0	2287.1	37.1	212.7	6.04	34.65
9.0-10.0	2059.8	37.3	249.9	6.08	40.73
10.0-11.0	1828.4	36.5	286.5	5.95	46.68
11.0-12.0	1602.7	35.0	321.5	5.71	52.39
12.0-13.0	1388.3	33.0	354.5	5.37	57.76
13.0-14.0	1187.9	30.4	384.9	4.96	62.72
14.0-15.0	1004.2	27.6	412.4	4.49	67.21
15.0-16.0	837.1	24.5	437.0	4.00	71.21
16.0-17.0	689.3	21.5	458.4	3.50	74.71
17.0-18.0	564.6	18.6	477.1	3.03	77.74
18.0-19.0	461.7	16.1	493.1	2.62	80.36
19.0-20.0	376.9	13.8	506.9	2.25	82.61
20.0-21.0	307.4	11.8	518.7	1.92	84.53
21.0-22.0	251.4	10.1	528.8	1.65	86.18
22.0-23.0	206.9	8.7	537.5	1.42	87.59
23.0-24.0	172.0	7.5	545.0	1.23	88.82
24.0-25.0	144.7	6.6	551.6	1.07	89.89
25.0-26.0	123.1	5.8	557.4	0.95	90.84
26.0-27.0	105.6	5.2	562.6	0.84	91.68
27.0-28.0	90.9	4.6	567.2	0.75	92.43
28.0-29.0	78.7	4.1	571.3	0.67	93.10
29.0-30.0	68.5	3.7	575.0	0.60	93.70
30.0-31.0	59.7	3.3	578.3	0.54	94.24
31.0-32.0	52.1	3.0	581.3	0.49	94.73
32.0-33.0	45.7	2.7	584.0	0.44	95.17
33.0-34.0	40.2	2.4	586.5	0.40	95.57
34.0-35.0	35.4	2.2	588.7	0.36	95.92
35.0-36.0	31.0	2.0	590.6	0.32	96.25

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	27.2	1.8	592.4	0.29	96.53
37.0-38.0	24.0	1.6	594.0	0.26	96.80
38.0-39.0	21.3	1.5	595.5	0.24	97.03
39.0-40.0	19.0	1.3	596.8	0.22	97.25
40.0-41.0	16.8	1.2	598.0	0.20	97.44
41.0-42.0	14.6	1.1	599.0	0.17	97.62
42.0-43.0	12.5	0.9	600.0	0.15	97.77
43.0-44.0	10.8	0.8	600.8	0.13	97.90
44.0-45.0	9.7	0.7	601.5	0.12	98.02
45.0-46.0	9.1	0.7	602.2	0.12	98.14
46.0-47.0	8.6	0.7	602.9	0.11	98.25
47.0-48.0	8.0	0.6	603.6	0.10	98.36
48.0-49.0	7.3	0.6	604.2	0.10	98.45
49.0-50.0	6.7	0.6	604.7	0.09	98.54
50.0-51.0	6.0	0.5	605.2	0.08	98.63
51.0-52.0	5.0	0.4	605.7	0.07	98.70
52.0-53.0	4.2	0.4	606.0	0.06	98.76
53.0-54.0	3.6	0.3	606.3	0.05	98.81
54.0-55.0	3.0	0.3	606.6	0.04	98.85
55.0-56.0	2.5	0.2	606.8	0.04	98.89
56.0-57.0	2.1	0.2	607.0	0.03	98.92
57.0-58.0	1.7	0.2	607.2	0.03	98.94
58.0-59.0	1.4	0.1	607.3	0.02	98.97
59.0-60.0	1.3	0.1	607.4	0.02	98.99
60.0-61.0	1.2	0.1	607.6	0.02	99.00
61.0-62.0	1.2	0.1	607.7	0.02	99.02
62.0-63.0	1.2	0.1	607.8	0.02	99.04
63.0-64.0	1.2	0.1	607.9	0.02	99.06
64.0-65.0	1.3	0.1	608.0	0.02	99.08
65.0-66.0	1.4	0.1	608.2	0.02	99.10
66.0-67.0	1.5	0.1	608.3	0.02	99.13
67.0-68.0	1.5	0.2	608.5	0.03	99.15
68.0-69.0	1.7	0.2	608.7	0.03	99.18
69.0-70.0	1.9	0.2	608.8	0.03	99.21
70.0-71.0	1.9	0.2	609.0	0.03	99.25
71.0-72.0	1.9	0.2	609.2	0.03	99.28

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
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	3387.3	3387.3								
G1.0	3403.8	3334.9								
G2.0	3386.1	3247.8								
G3.0	3331.1	3128.6								
G4.0	3244.8	2980.3								
G5.0	3127.4	2809.3								
G6.0	2978.8	2620.1								
G7.0	2803.1	2412.6								
G8.0	2602.2	2194.9								
G9.0	2382.4	1968.8								
G10.0	2149.4	1738.6								
G11.0	1907.5	1518.1								
G12.0	1670.5	1314.8								
G13.0	1441.6	1126.2								
G14.0	1225.1	958.5								
G15.0	1026.2	806.8								
G16.0	845.0	670.4								
G17.0	691.5	550.4								
G18.0	568.9	447.7								
G19.0	468.7	361.5								
G20.0	385.0	292.3								
G21.0	315.6	236.9								
G22.0	259.7	193.5								
G23.0	214.6	159.9								
G24.0	179.7	133.8								
G25.0	152.4	112.9								
G26.0	130.5	96.5								
G27.0	112.6	82.7								
G28.0	97.3	71.2								
G29.0	84.7	61.6								
G30.0	73.6	54.0								
G31.0	63.7	47.4								
G32.0	55.4	42.0								
G33.0	48.2	37.2								
G34.0	42.6	32.7								
G35.0	37.2	28.8								
G36.0	32.3	25.7								

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: 3.010 m
Humidity:
Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	28.1	22.8								
G38.0	24.6	20.4								
G39.0	21.6	18.5								
G40.0	19.2	16.8								
G41.0	16.8	14.4								
G42.0	15.0	12.0								
G43.0	12.3	10.8								
G44.0	10.1	10.1								
G45.0	9.2	9.6								
G46.0	8.6	9.2								
G47.0	8.3	8.4								
G48.0	7.2	8.0								
G49.0	6.6	7.4								
G50.0	6.0	6.8								
G51.0	5.1	6.0								
G52.0	4.2	4.8								
G53.0	3.8	3.9								
G54.0	3.0	3.6								
G55.0	2.5	3.0								
G56.0	2.1	2.4								
G57.0	1.6	2.3								
G58.0	1.2	1.8								
G59.0	1.0	1.6								
G60.0	1.0	1.4								
G61.0	1.0	1.4								
G62.0	0.9	1.5								
G63.0	0.4	1.8								
G64.0	0.4	2.1								
G65.0	0.4	2.3								
G66.0	0.4	2.4								
G67.0	0.3	2.7								
G68.0	0.3	2.8								
G69.0	0.6	3.2								
G70.0	0.2	3.6								
G71.0	0.2	3.6								
G72.0	0.2	3.6								
G73.0	0.2	3.6								

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: