

Report No.:

Test Time: 2026-09-10 18:21

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 51.09516 36D

Luminous Width (mm): -82

Current: 0.186 A

Power Factor: 0.965

Luminous Length (mm): -82

Voltage: 227.4 V

Power: 41.00 W

Photometric Results

CIE Class: Direct

Measurement Flux: 4536.5 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H35.2

Vertical Diffuse Angle(50%): V35.2

Luminaire Efficacy Rating (LER): 110.70

Max. Intensity: 13401.54 cd

S/MH(C0/C180): 0.59

Total Rated Lamp Lumens: 4536.5 lm

Efficiency: 100%

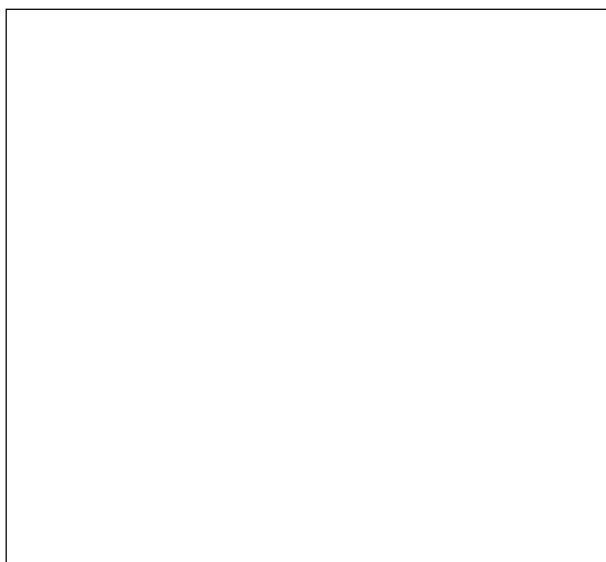
Upward Ratio: 0%

Central Intensity: 13377.41 cd

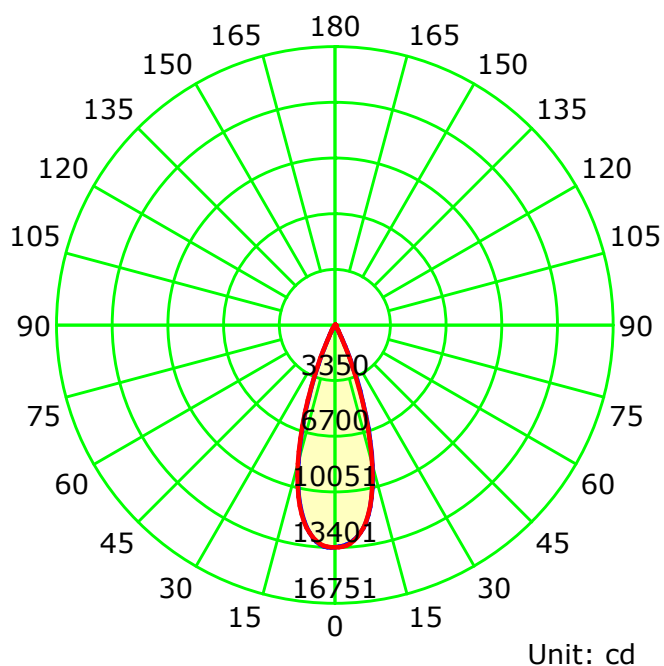
Pos of Max. Intensity: H180 V1

S/MH(C90/C270): 0.59

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

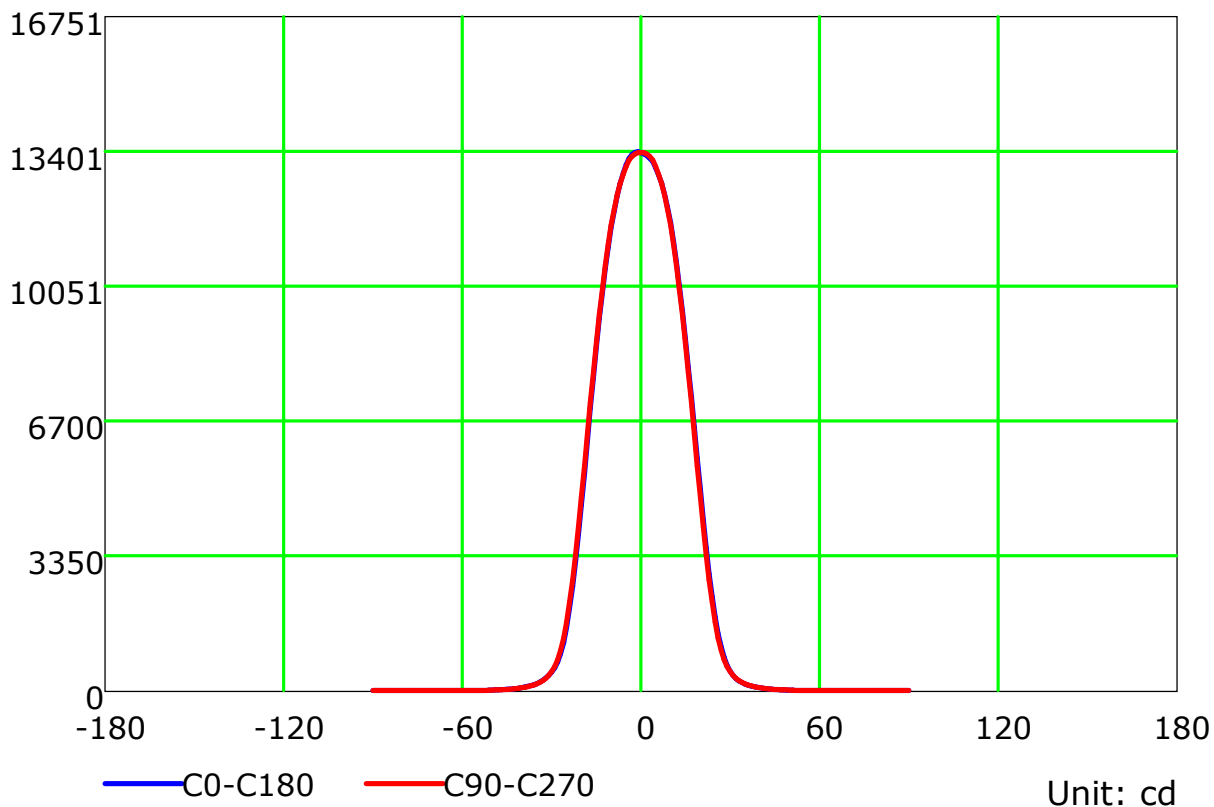
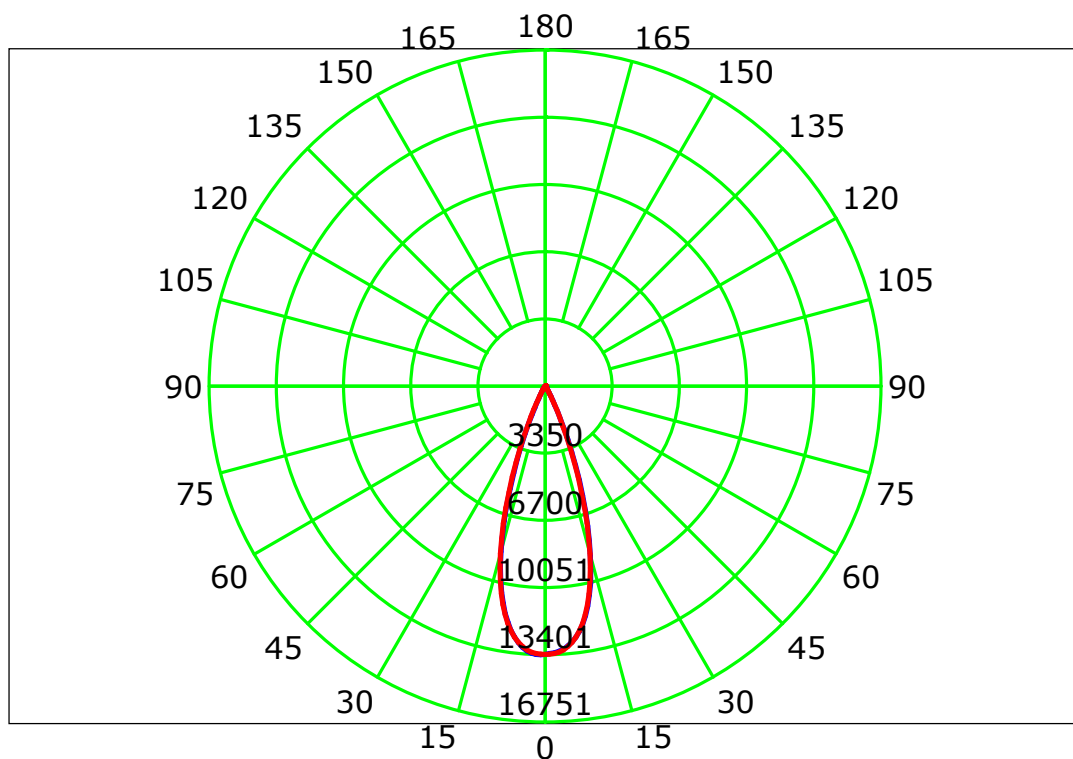
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

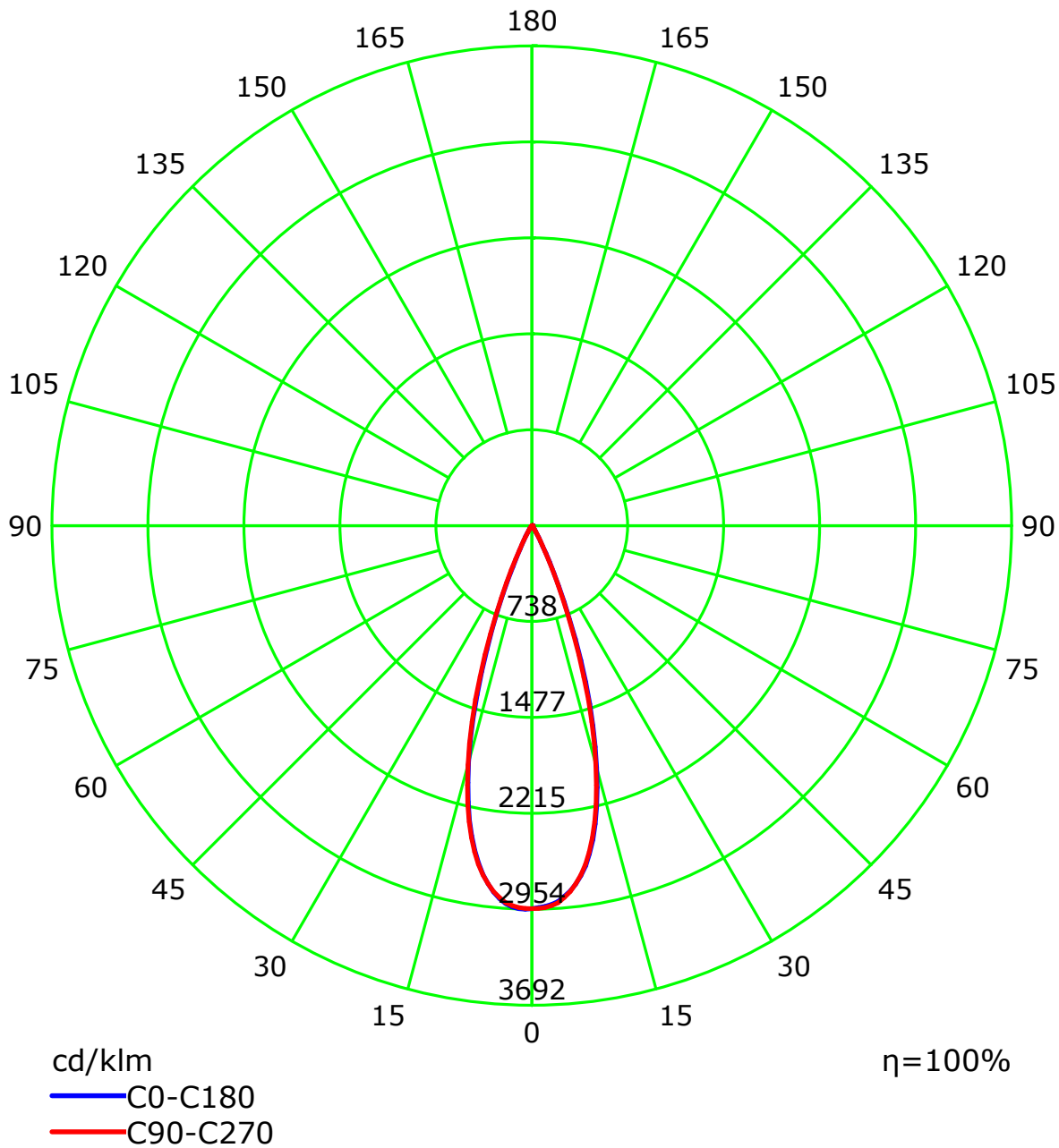
Luminous Intensity Distribution Curve



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:

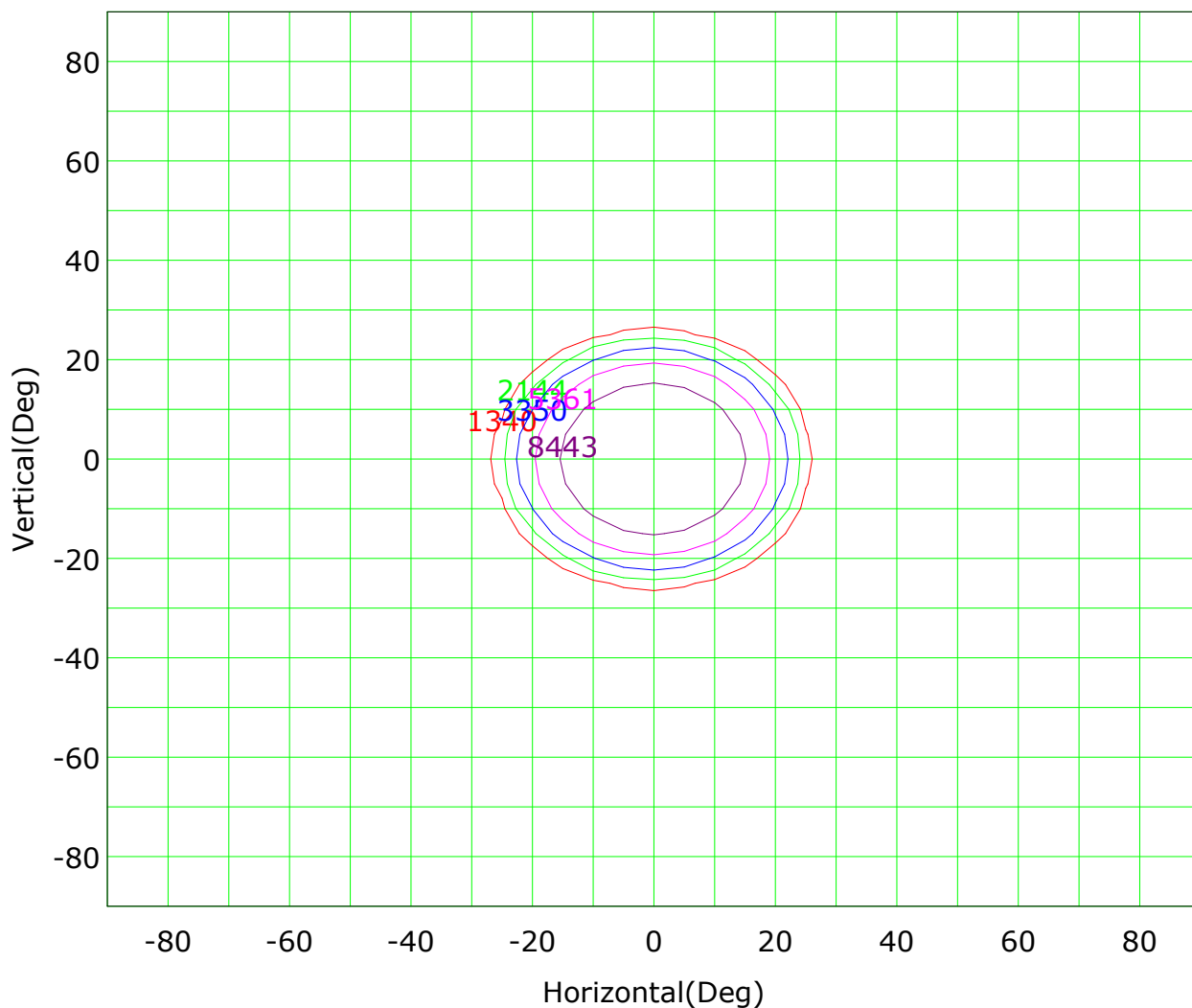
Luminous Intensity Distribution Curve(cd/klm)



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)



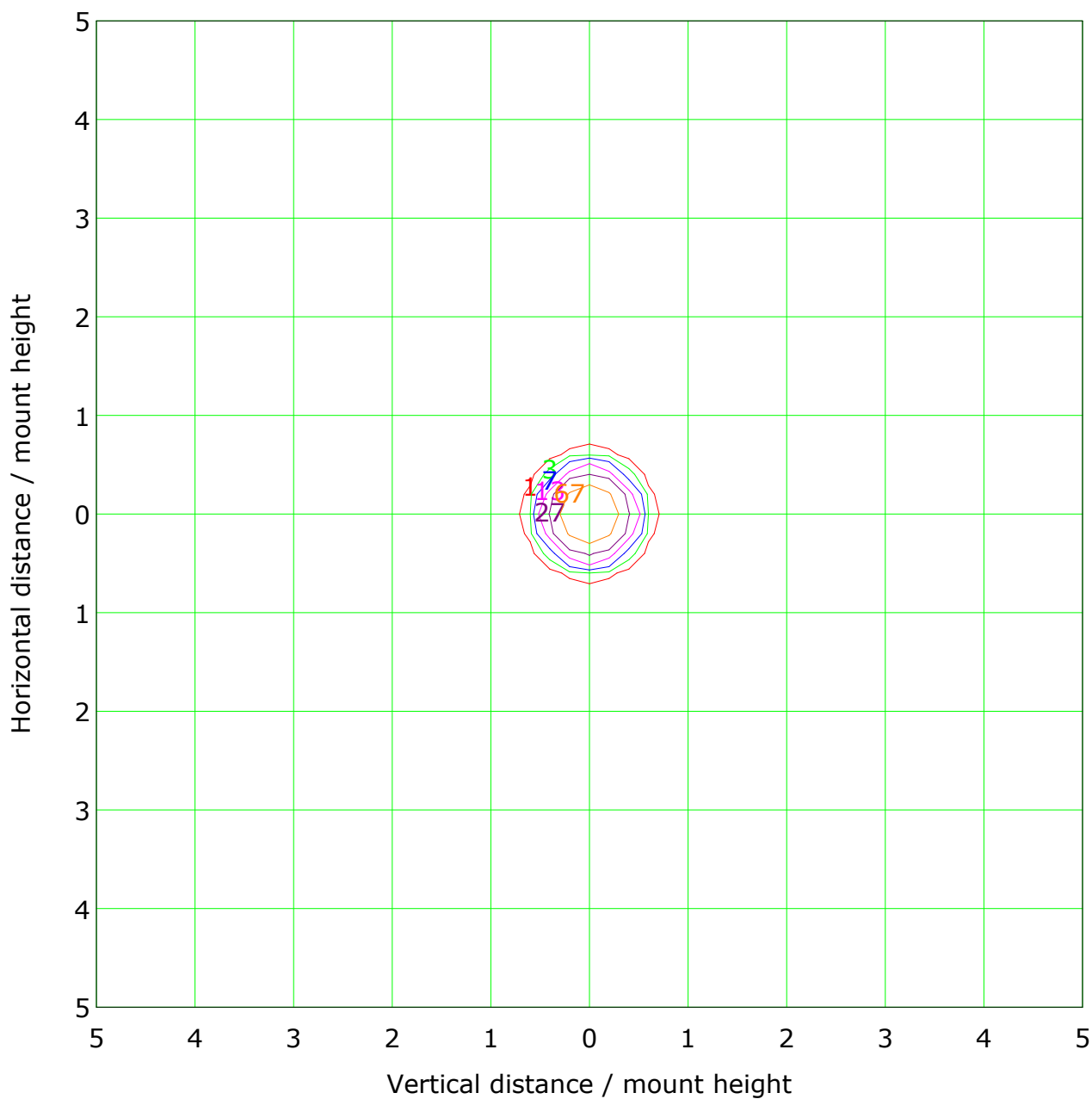
Imax (100%): 13402 cd

(10%): 1340 cd	(16%): 2144 cd
(25%): 3350 cd	(40%): 5361 cd
(63%): 8443 cd	(100%): 13402 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



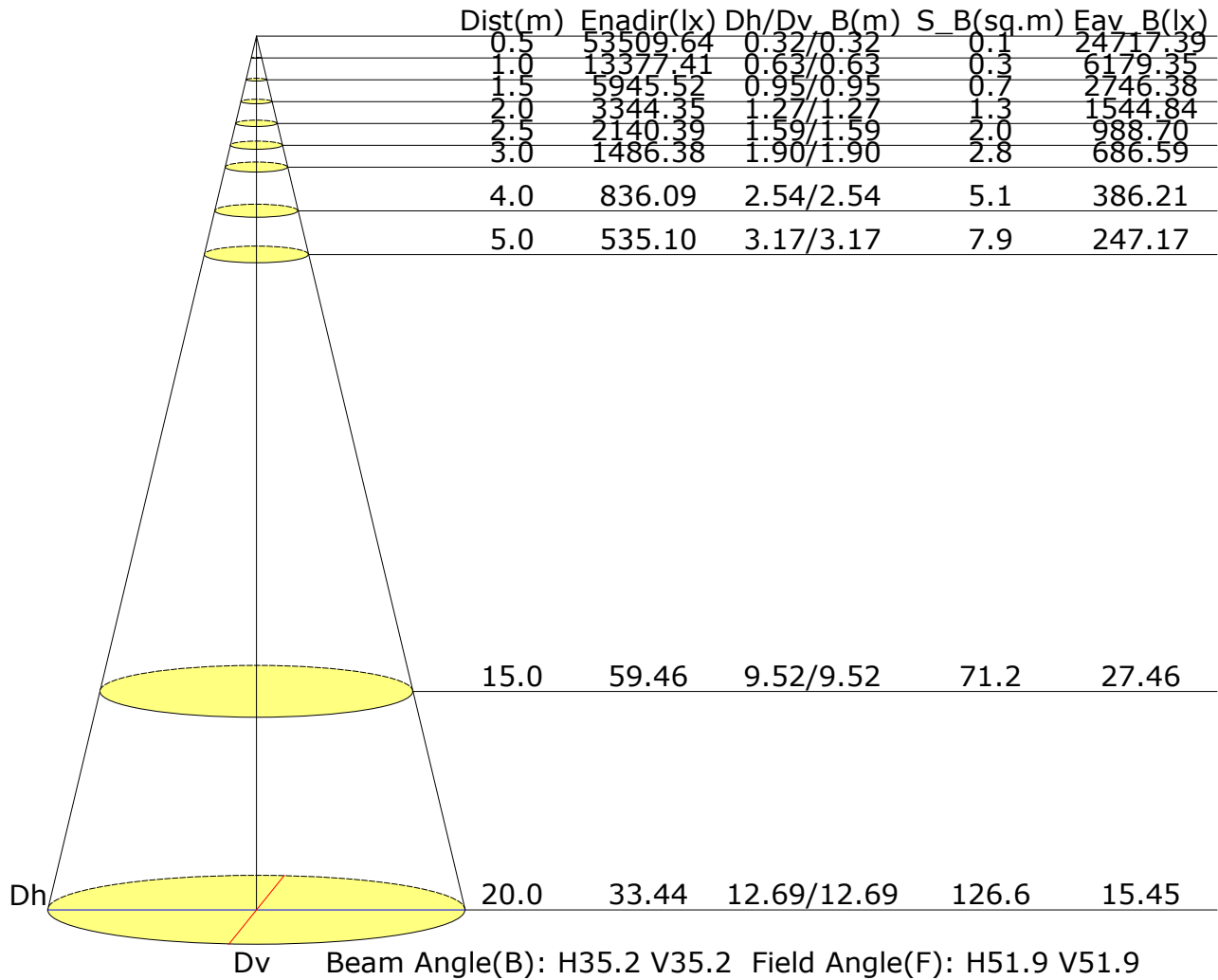
Mounting Height: 10.0m Max Lux(100%): 134.0 lx

(1%): 1.3 lx	(2%): 2.7 lx
(5%): 6.7 lx	(10%): 13.4 lx
(20%): 26.8 lx	(50%): 67.0 lx
(100%): 134.0 lx	

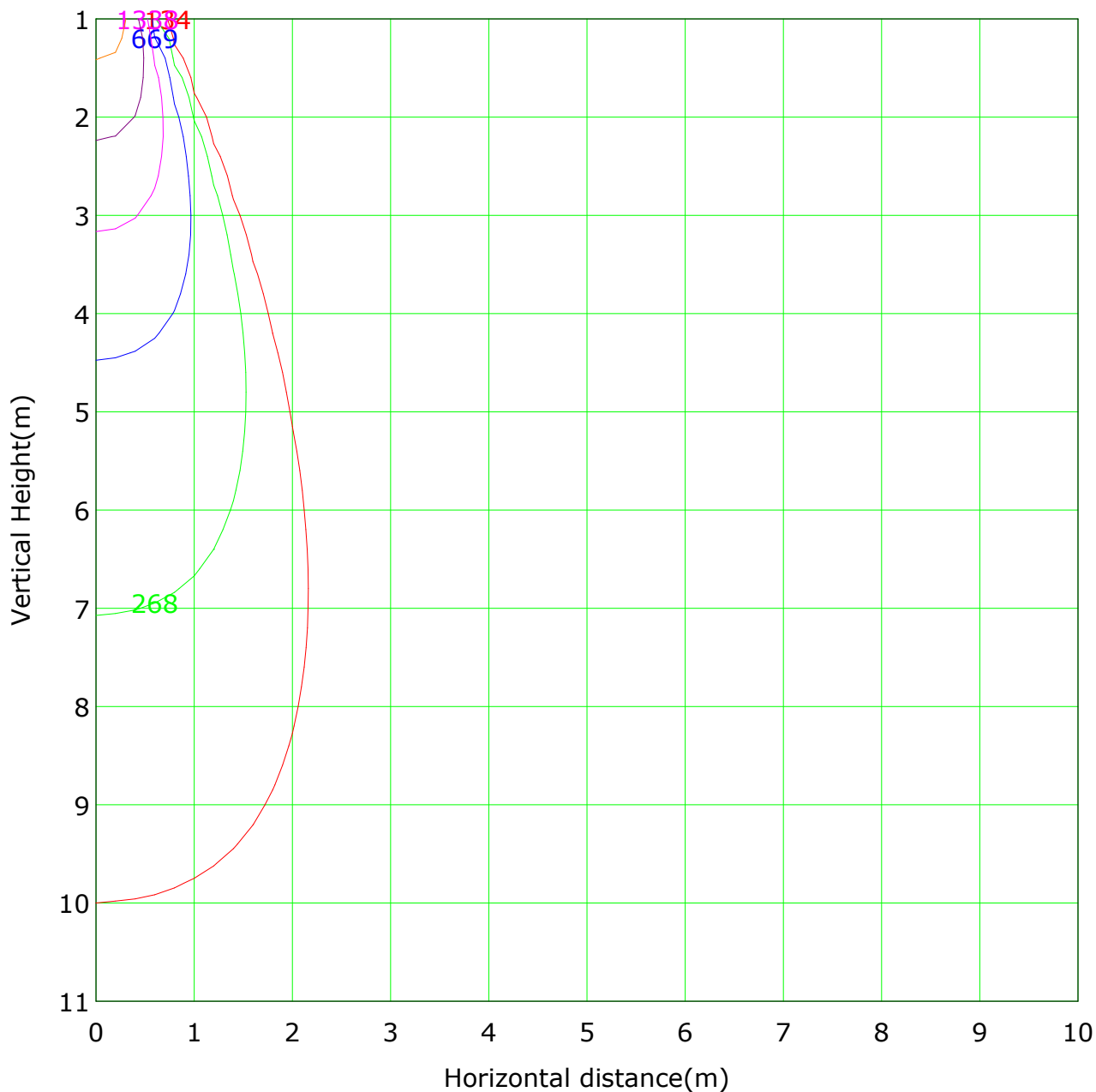
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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: 13377.4 lx

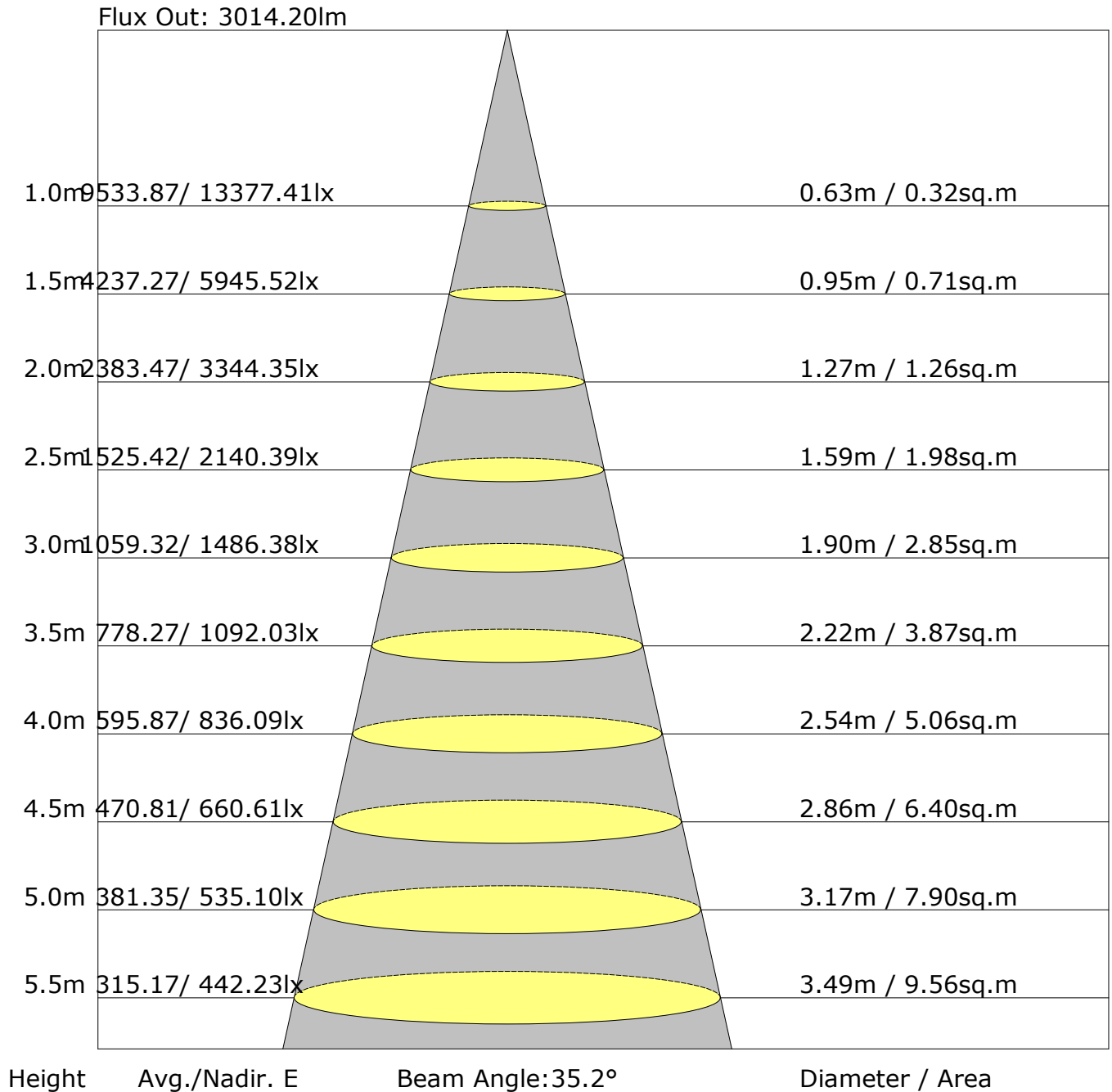
(1%): 133.8 lx	(2%): 267.5 lx
(5%): 668.9 lx	(10%): 1337.7 lx
(20%): 2675.5 lx	(50%): 6688.7 lx
(100%): 13377.4 lx	

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

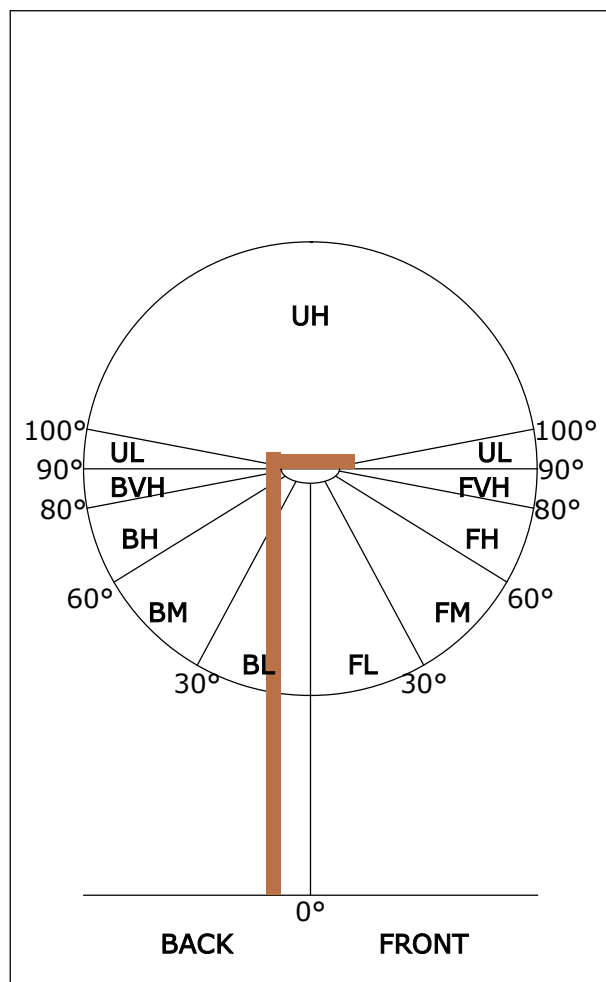
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	9.2	9.8	9.4	10.0	10.2	9.3	9.9	9.5	10.1	10.3
3H	9.1	9.6	9.3	9.9	10.1	9.2	9.7	9.4	10.0	10.2
4H	9.0	9.5	9.3	9.8	10.0	9.1	9.6	9.4	9.9	10.1
6H	8.9	9.4	9.2	9.7	10.0	9.0	9.5	9.3	9.8	10.1
8H	8.9	9.4	9.2	9.7	9.9	9.0	9.5	9.3	9.7	10.0
12H	8.8	9.3	9.2	9.6	9.9	8.9	9.4	9.3	9.7	10.0
X=4H Y=2H	9.0	9.5	9.3	9.8	10.0	9.1	9.6	9.4	9.9	10.1
3H	8.8	9.3	9.2	9.6	9.9	8.9	9.4	9.3	9.7	10.0
4H	8.8	9.2	9.1	9.5	9.8	8.8	9.3	9.2	9.6	9.9
6H	8.7	9.0	9.1	9.4	9.8	8.8	9.1	9.2	9.5	9.9
8H	8.6	9.0	9.0	9.3	9.7	8.7	9.1	9.1	9.4	9.8
12H	8.6	8.9	9.0	9.3	9.7	8.7	9.0	9.1	9.4	9.8
X=8H Y=4H	8.6	9.0	9.0	9.3	9.7	8.7	9.1	9.1	9.4	9.8
6H	8.5	8.8	9.0	9.2	9.7	8.6	8.9	9.1	9.3	9.8
8H	8.5	8.7	8.9	9.2	9.6	8.6	8.8	9.0	9.2	9.7
12H	8.4	8.6	8.9	9.1	9.6	8.5	8.7	9.0	9.2	9.7
X=12H Y=4H	8.6	8.9	9.0	9.3	9.7	8.7	9.0	9.1	9.4	9.8
6H	8.5	8.7	8.9	9.2	9.6	8.6	8.8	9.0	9.2	9.7
8H	8.4	8.6	8.9	9.1	9.6	8.5	8.7	9.0	9.2	9.7
Variations with the observer position at spacings:										
S=1.0H	+5.7/-23.5					+5.7/-23.6				
S=1.5H	+8.5/-1.\$					+8.5/-1.\$				
S=2.0H	+10.5/-1.\$					+10.5/-1.\$				

Calculate in accordance with CIE Pub.117. The table is revised with 4537lm ($8\log(F/F_0) = 5.3$).

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:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	2289	50.5
FL (0°-30°)	2213	48.8
FM (30°-60°)	76	1.7
FH (60°-80°)	0	0.0
FVH (80°-90°)	0	0.0
BACK LIGHT	2247	49.5
BL (0°-30°)	2170	47.8
BM (30°-60°)	77	1.7
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)	B3 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B3 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	13374.0	12.8	12.8	0.28	0.28
1.0-2.0	13357.8	38.3	51.1	0.85	1.13
2.0-3.0	13315.6	63.7	114.8	1.40	2.53
3.0-4.0	13240.2	88.6	203.5	1.95	4.49
4.0-5.0	13114.3	112.8	316.3	2.49	6.97
5.0-6.0	12939.1	136.0	452.3	3.00	9.97
6.0-7.0	12724.2	158.0	610.3	3.48	13.45
7.0-8.0	12462.3	178.4	788.6	3.93	17.38
8.0-9.0	12147.9	196.9	985.5	4.34	21.72
9.0-10.0	11774.8	213.1	1198.7	4.70	26.42
10.0-11.0	11337.2	226.6	1425.2	4.99	31.42
11.0-12.0	10840.0	237.0	1662.2	5.22	36.64
12.0-13.0	10283.0	244.1	1906.3	5.38	42.02
13.0-14.0	9664.1	247.4	2153.7	5.45	47.47
14.0-15.0	8995.8	247.0	2400.7	5.44	52.92
15.0-16.0	8286.1	242.8	2643.5	5.35	58.27
16.0-17.0	7543.5	234.9	2878.5	5.18	63.45
17.0-18.0	6773.1	223.3	3101.8	4.92	68.37
18.0-19.0	5983.5	208.2	3310.0	4.59	72.96
19.0-20.0	5196.9	190.2	3500.2	4.19	77.16
20.0-21.0	4437.8	170.4	3670.7	3.76	80.91
21.0-22.0	3724.3	149.7	3820.4	3.30	84.21
22.0-23.0	3065.4	128.6	3949.0	2.84	87.05
23.0-24.0	2470.7	108.0	4057.0	2.38	89.43
24.0-25.0	1949.4	88.6	4145.7	1.95	91.38
25.0-26.0	1509.5	71.3	4216.9	1.57	92.96
26.0-27.0	1156.4	56.6	4273.5	1.25	94.20
27.0-28.0	886.1	44.9	4318.4	0.99	95.19
28.0-29.0	686.0	35.9	4354.3	0.79	95.98
29.0-30.0	536.7	29.0	4383.3	0.64	96.62
30.0-31.0	424.8	23.6	4406.9	0.52	97.14
31.0-32.0	341.9	19.6	4426.5	0.43	97.57
32.0-33.0	278.2	16.4	4442.9	0.36	97.94
33.0-34.0	228.0	13.8	4456.7	0.30	98.24
34.0-35.0	188.5	11.7	4468.4	0.26	98.50
35.0-36.0	156.8	10.0	4478.4	0.22	98.72

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	132.7	8.7	4487.0	0.19	98.91
37.0-38.0	112.3	7.5	4494.5	0.17	99.07
38.0-39.0	94.6	6.5	4501.0	0.14	99.22
39.0-40.0	80.3	5.6	4506.6	0.12	99.34
40.0-41.0	67.1	4.8	4511.4	0.11	99.45
41.0-42.0	55.8	4.1	4515.4	0.09	99.53
42.0-43.0	47.5	3.5	4518.9	0.08	99.61
43.0-44.0	39.6	3.0	4521.9	0.07	99.68
44.0-45.0	33.5	2.6	4524.5	0.06	99.73
45.0-46.0	29.4	2.3	4526.8	0.05	99.79
46.0-47.0	25.3	2.0	4528.8	0.04	99.83
47.0-48.0	22.2	1.8	4530.6	0.04	99.87
48.0-49.0	18.8	1.5	4532.2	0.03	99.90
49.0-50.0	15.5	1.3	4533.5	0.03	99.93
50.0-51.0	12.8	1.1	4534.5	0.02	99.96
51.0-52.0	9.4	0.8	4535.3	0.02	99.97
52.0-53.0	7.2	0.6	4536.0	0.01	99.99
53.0-54.0	4.1	0.4	4536.3	0.01	100.00
54.0-55.0	1.5	0.1	4536.5	0.00	100.00
55.0-56.0	0.8	0.1	4536.5	0.00	100.00
56.0-57.0	0.0	0.0	4536.5	0.00	100.00
57.0-58.0	0.0	0.0	4536.5	0.00	100.00
58.0-59.0	0.0	0.0	4536.5	0.00	100.00
59.0-60.0	0.0	0.0	4536.5	0.00	100.00
60.0-61.0	0.0	0.0	4536.5	0.00	100.00
61.0-62.0	0.0	0.0	4536.5	0.00	100.00
62.0-63.0	0.0	0.0	4536.5	0.00	100.00
63.0-64.0	0.0	0.0	4536.5	0.00	100.00
64.0-65.0	0.0	0.0	4536.5	0.00	100.00
65.0-66.0	0.0	0.0	4536.5	0.00	100.00
66.0-67.0	0.0	0.0	4536.5	0.00	100.00
67.0-68.0	0.0	0.0	4536.5	0.00	100.00
68.0-69.0	0.0	0.0	4536.5	0.00	100.00
69.0-70.0	0.0	0.0	4536.5	0.00	100.00
70.0-71.0	0.0	0.0	4536.5	0.00	100.00
71.0-72.0	0.0	0.0	4536.5	0.00	100.00

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:

Candlepower Table

Unit: cd

G\C	C0.0	C180.0								
G0.0	13377.4	13377.4								
G1.0	13339.7	13401.5								
G2.0	13305.0	13385.0								
G3.0	13240.2	13332.2								
G4.0	13155.8	13232.7								
G5.0	12997.5	13071.4								
G6.0	12822.6	12864.8								
G7.0	12608.5	12601.0								
G8.0	12341.7	12297.9								
G9.0	12020.5	11931.6								
G10.0	11630.0	11517.0								
G11.0	11171.7	11030.0								
G12.0	10648.6	10509.8								
G13.0	10072.6	9900.8								
G14.0	9428.9	9254.0								
G15.0	8747.4	8552.9								
G16.0	8040.3	7803.6								
G17.0	7300.1	7030.2								
G18.0	6549.3	6213.0								
G19.0	5781.9	5389.9								
G20.0	5005.4	4610.4								
G21.0	4248.6	3886.7								
G22.0	3550.5	3211.3								
G23.0	2905.3	2594.7								
G24.0	2330.8	2051.9								
G25.0	1834.8	1580.0								
G26.0	1423.2	1200.1								
G27.0	1085.5	916.7								
G28.0	829.2	713.1								
G29.0	631.7	569.9								
G30.0	484.0	461.3								
G31.0	376.9	376.9								
G32.0	301.5	312.1								
G33.0	244.2	254.8								
G34.0	200.5	212.6								
G35.0	165.8	174.9								
G36.0	138.7	147.8								

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:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	119.1	125.1								
G38.0	98.0	107.0								
G39.0	84.4	88.9								
G40.0	72.4	75.4								
G41.0	60.3	60.3								
G42.0	48.2	54.3								
G43.0	42.2	45.2								
G44.0	34.7	36.2								
G45.0	28.6	34.7								
G46.0	24.1	30.1								
G47.0	22.6	24.1								
G48.0	19.6	22.6								
G49.0	15.1	18.1								
G50.0	15.1	13.6								
G51.0	10.6	12.1								
G52.0	7.5	7.5								
G53.0	7.5	6.0								
G54.0	1.5	1.5								
G55.0	1.5	1.5								
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: 3.010 m

Humidity:

Inspector:

Unit: cd

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.010 m
Humidity:
Inspector: