

Report No.: AX-DL-AD-10W-055

Test Time: 2025-09-30 11:42

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 50D

Luminous Width (mm): -50

Current: 0.070 A

Power Factor: 0.556

Luminous Length (mm): -50

Voltage: 225.0 V

Power: 8.80 W

Photometric Results

CIE Class: Direct

Measurement Flux: 583.6 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H51

Vertical Diffuse Angle(50%): V51

Luminaire Efficacy Rating (LER): 66.37

Max. Intensity: 879.65 cd

S/MH(C0/C180): 0.81

Total Rated Lamp Lumens: 583.6 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 865.38 cd

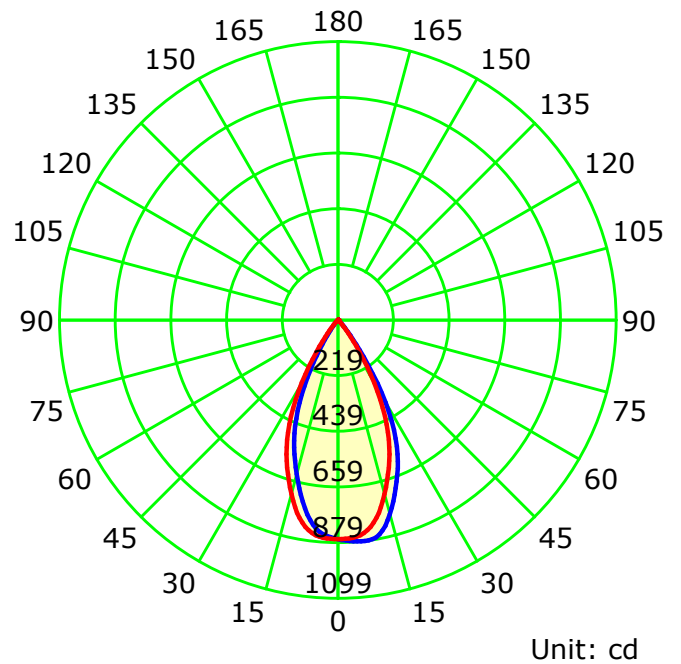
Pos of Max. Intensity: H0 V7

S/MH(C90/C270): 0.81

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

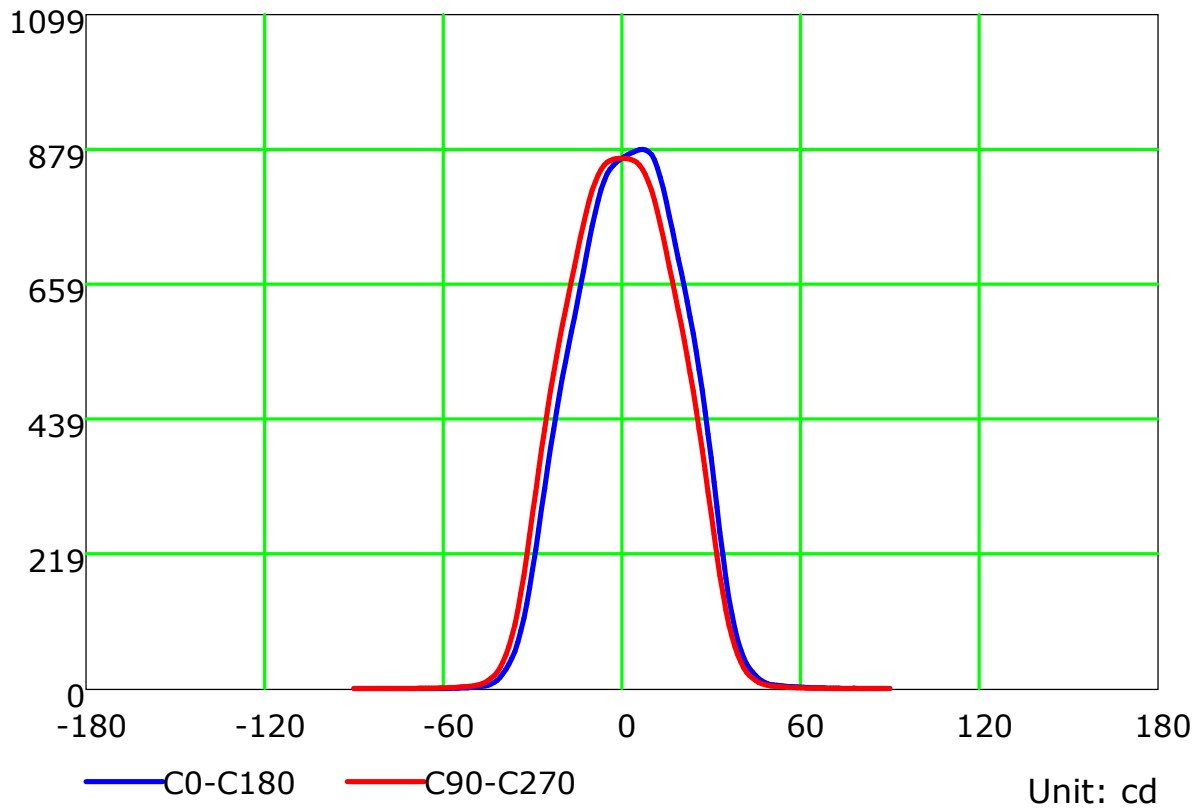
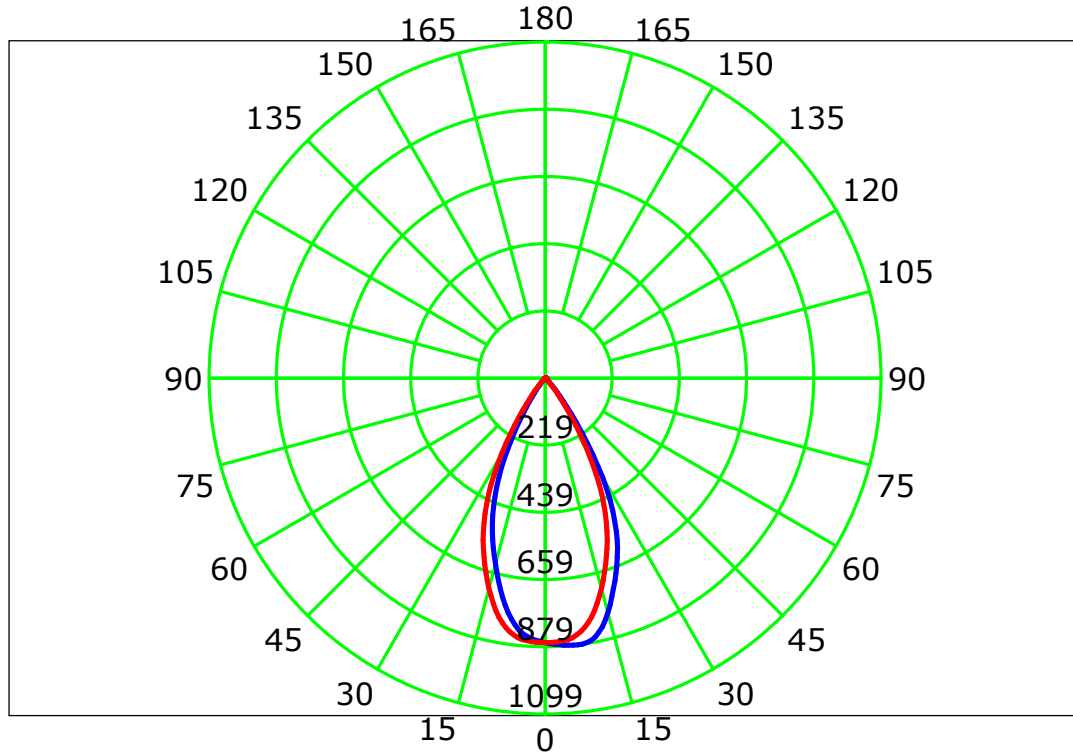
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

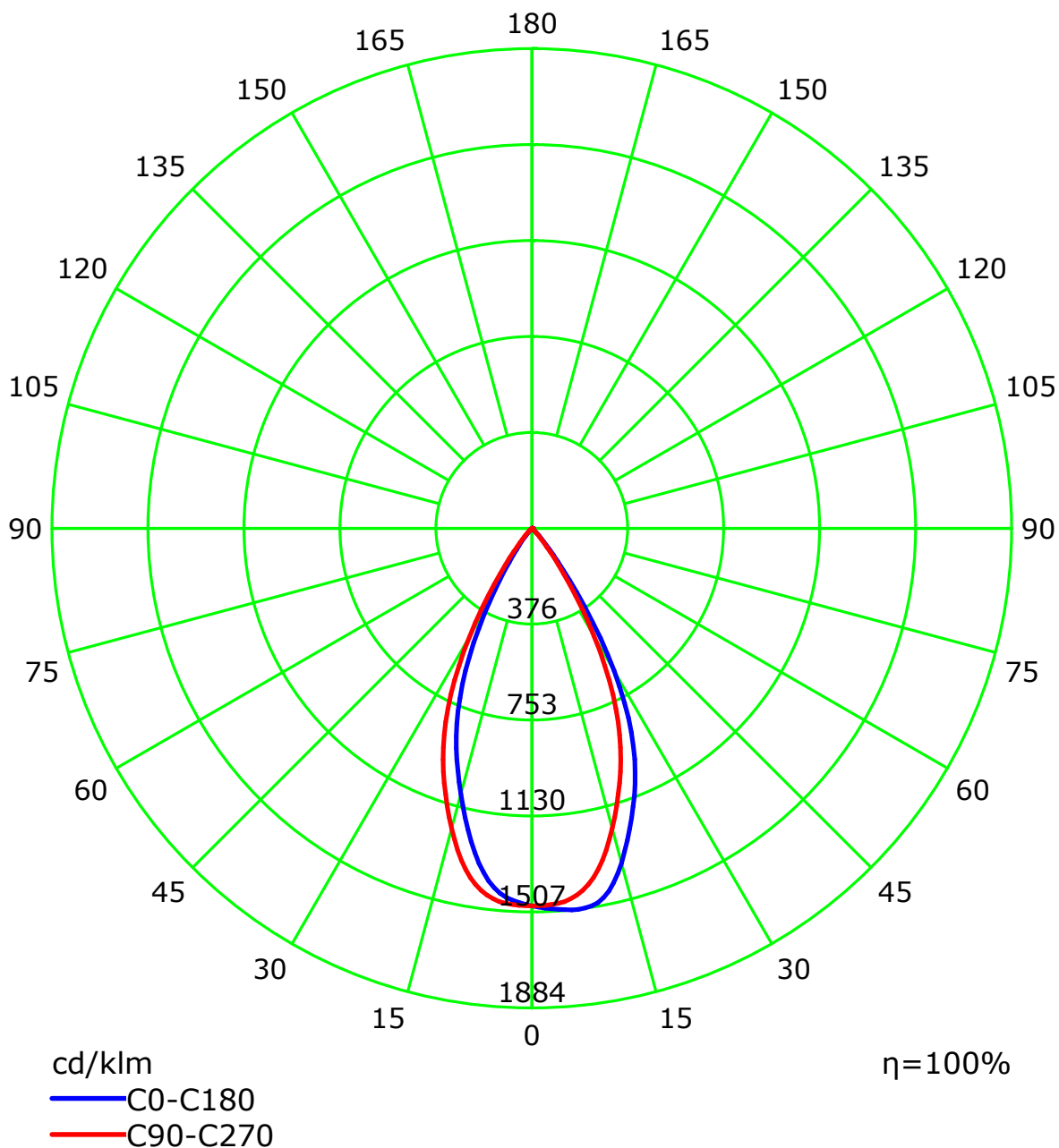
Luminous Intensity Distribution Curve



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:

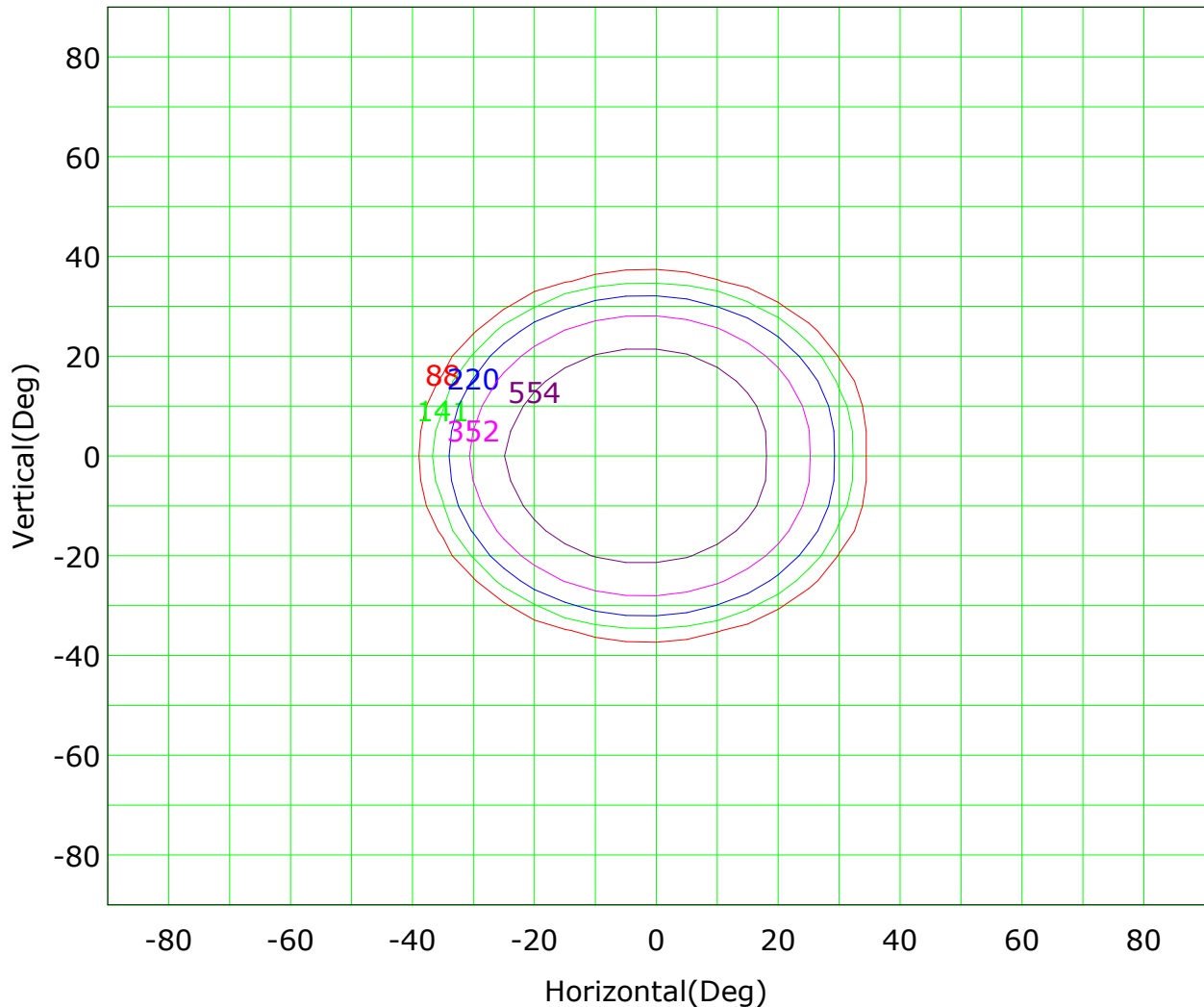
Luminous Intensity Distribution Curve(cd/klm)



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%): 880 cd

(10%): 88 cd	(16%): 141 cd
(25%): 220 cd	(40%): 352 cd
(63%): 554 cd	(100%): 880 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

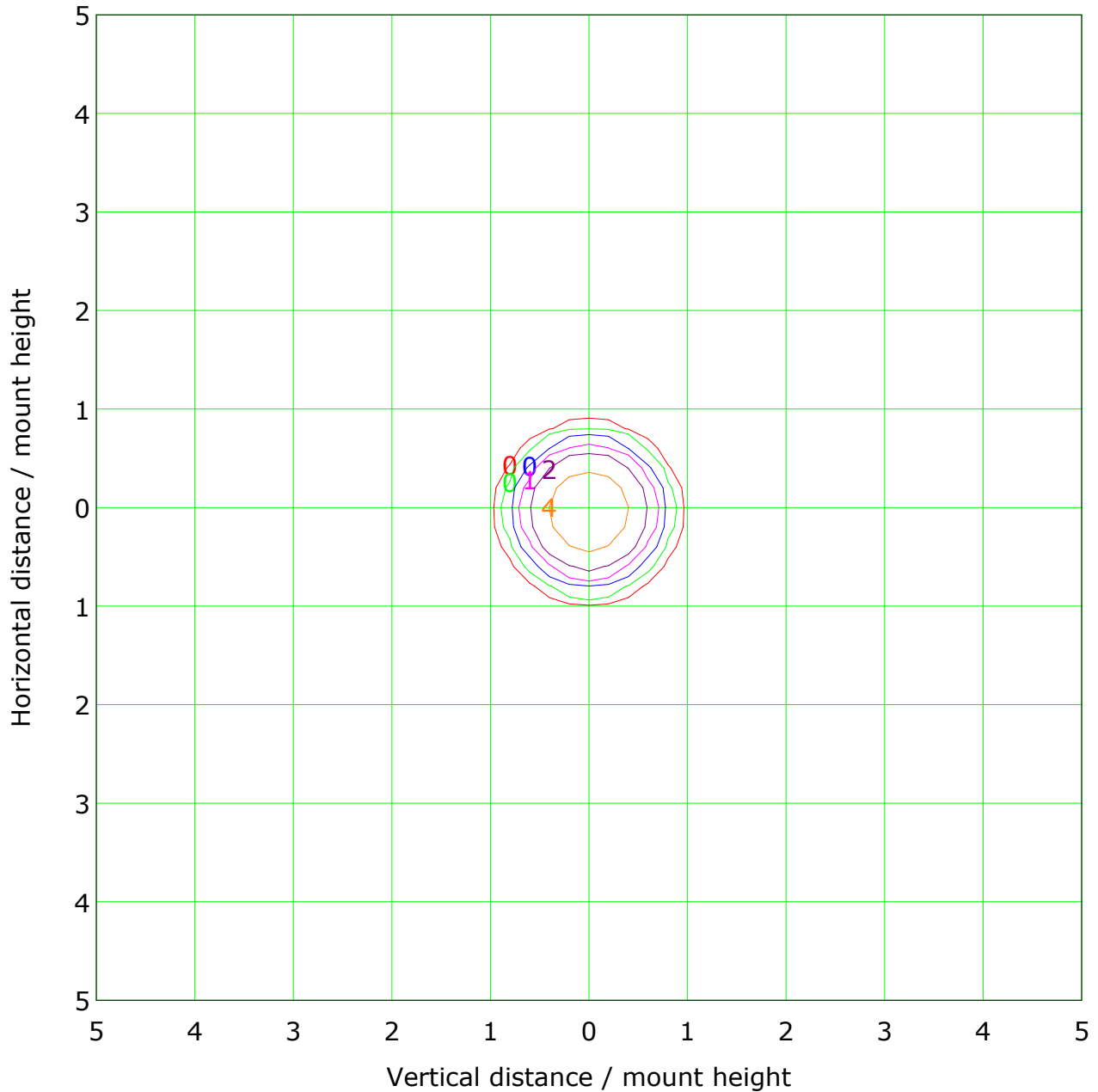
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 8.7 lx

— (1%): 0.1 lx	— (2%): 0.2 lx
— (5%): 0.4 lx	— (10%): 0.9 lx
— (20%): 1.7 lx	— (50%): 4.3 lx
— (100%): 8.7 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

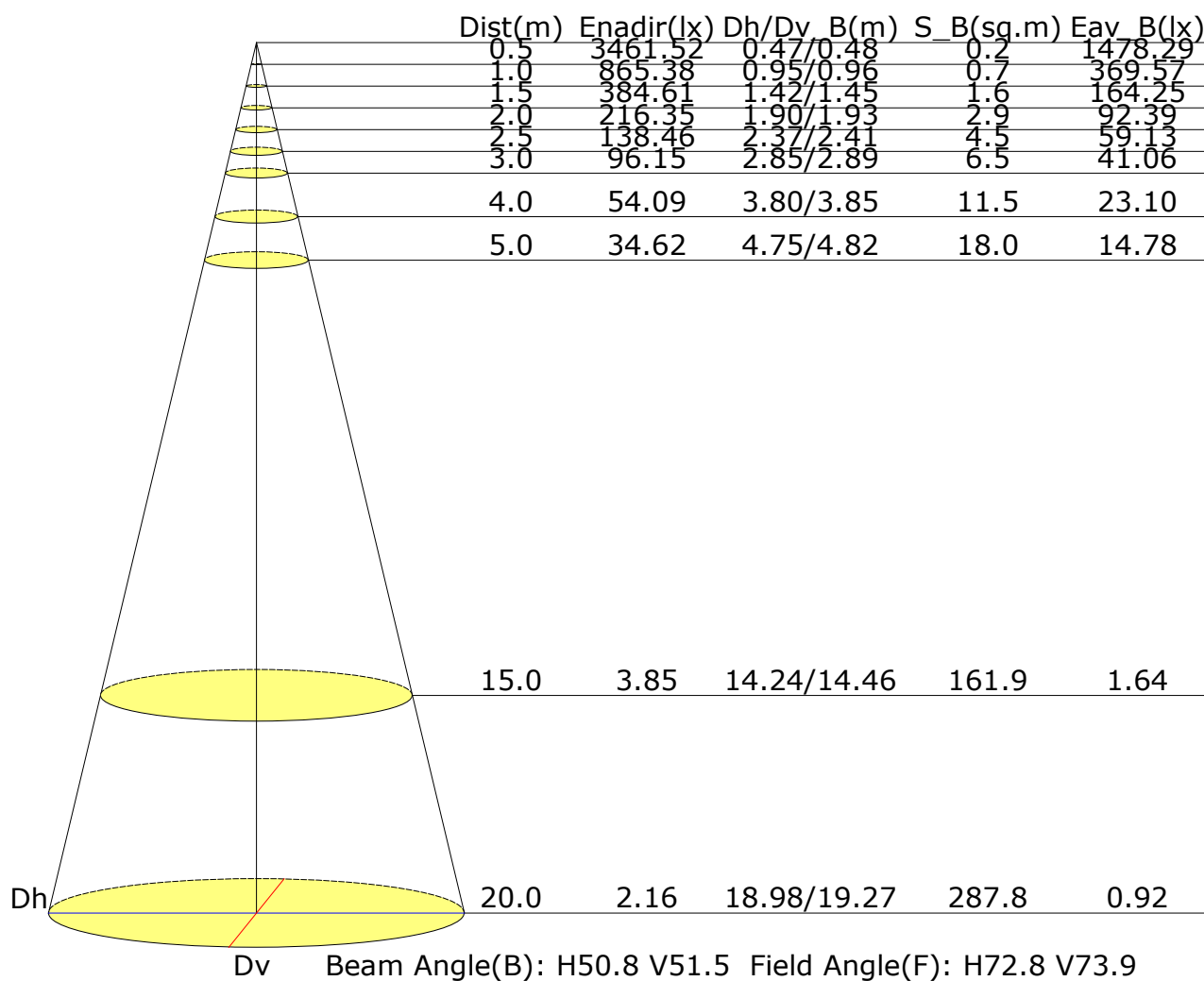
Test Device: CHL-6E

Distance: 2.905 m

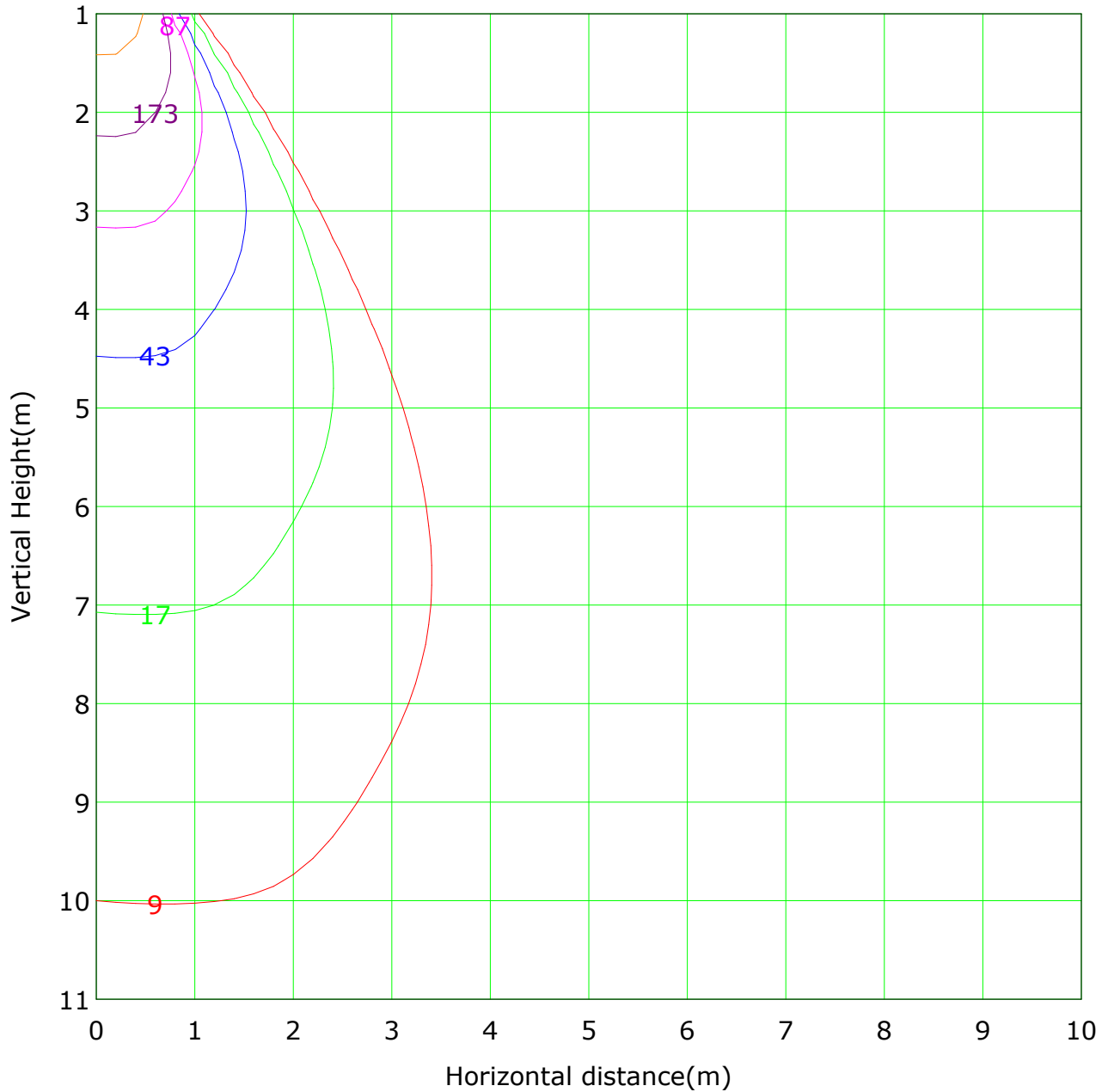
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 865.4 lx

— (1%): 8.7 lx	— (2%): 17.3 lx
— (5%): 43.3 lx	— (10%): 86.5 lx
— (20%): 173.1 lx	— (50%): 432.7 lx
— (100%): 865.4 lx	

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

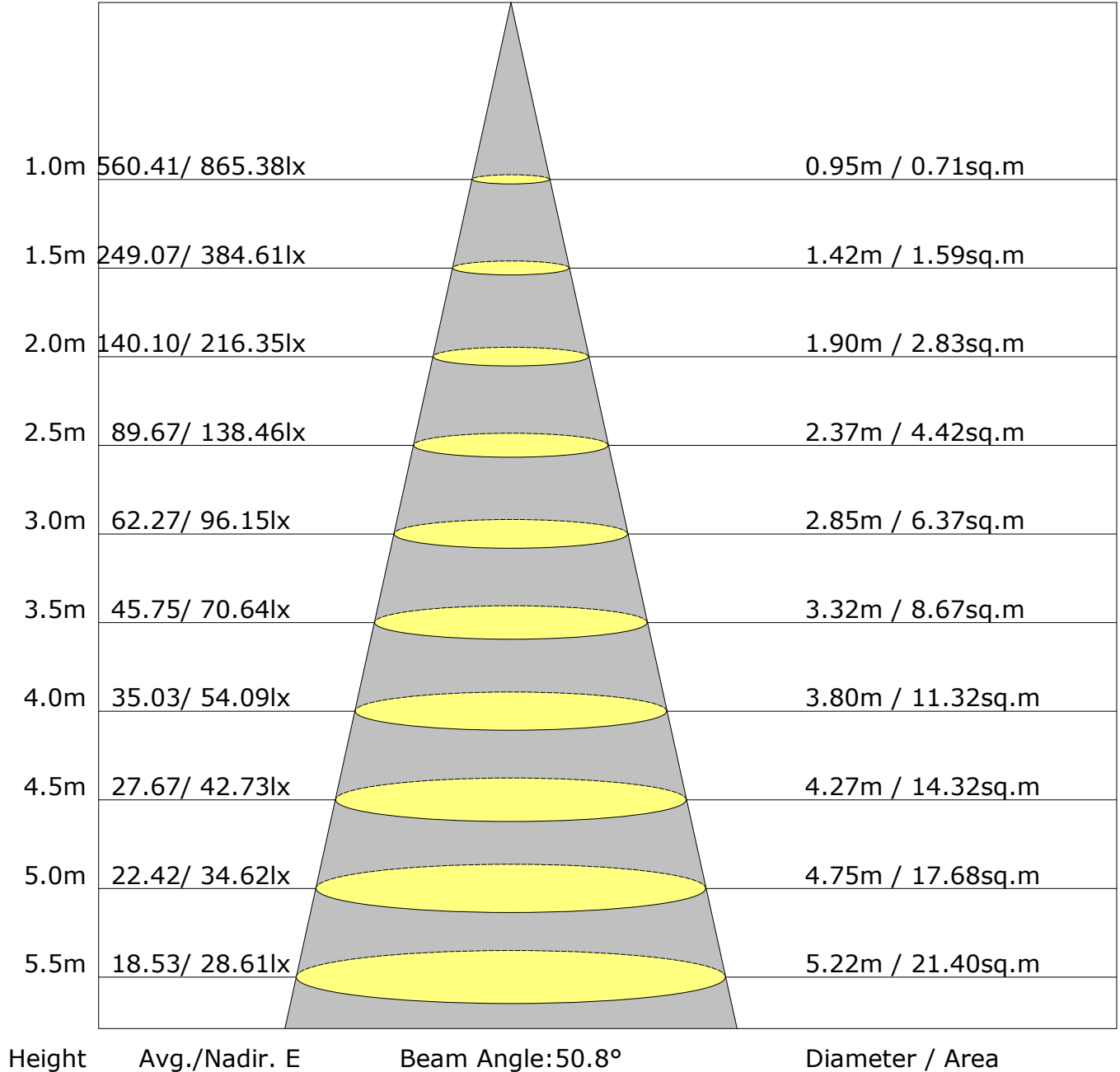
Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

Unit: 1m

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

The Average Illuminance Effective Figure

Flux Out: 396.43lm



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:

UGR Table

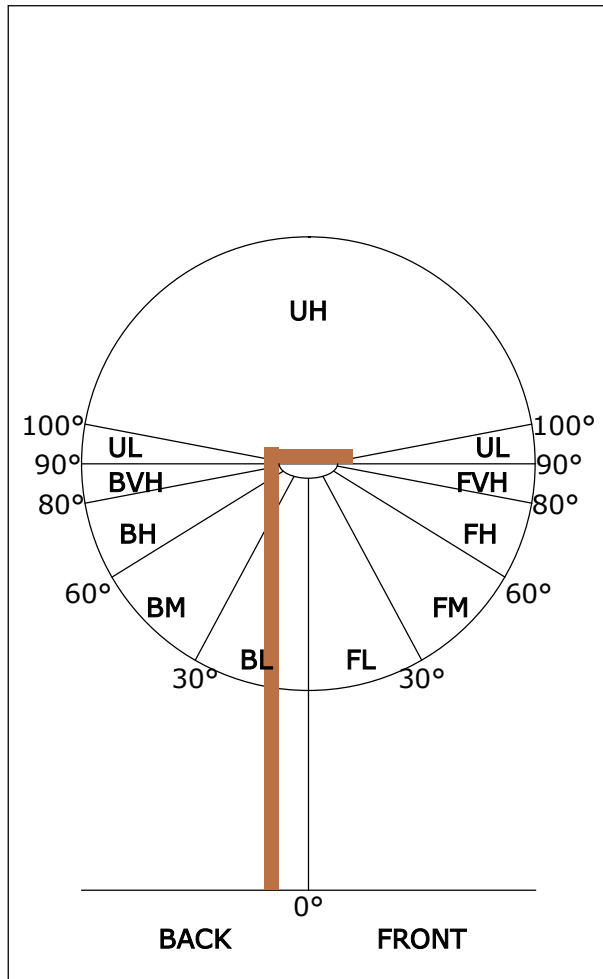
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	19.2	20.0	19.5	20.2	20.4	17.8	18.6	18.0	18.8	19.0
3H	19.1	19.8	19.4	20.0	20.3	17.6	18.3	17.9	18.6	18.8
4H	19.0	19.7	19.3	19.9	20.2	17.6	18.2	17.9	18.5	18.7
6H	18.9	19.5	19.3	19.8	20.1	17.5	18.1	17.8	18.4	18.7
8H	18.9	19.5	19.2	19.8	20.1	17.4	18.0	17.8	18.3	18.6
12H	18.9	19.4	19.2	19.7	20.0	17.4	18.0	17.8	18.3	18.6
X=4H Y=2H	19.0	19.7	19.3	19.9	20.2	17.6	18.2	17.9	18.5	18.7
3H	18.9	19.4	19.2	19.7	20.0	17.4	18.0	17.8	18.3	18.6
4H	18.8	19.3	19.2	19.6	20.0	17.3	17.8	17.7	18.2	18.5
6H	18.7	19.1	19.1	19.5	19.9	17.3	17.7	17.7	18.1	18.5
8H	18.7	19.1	19.1	19.4	19.9	17.2	17.6	17.6	18.0	18.4
12H	18.6	19.0	19.0	19.4	19.8	17.2	17.5	17.6	17.9	18.4
X=8H Y=4H	18.7	19.1	19.1	19.4	19.9	17.2	17.6	17.6	18.0	18.4
6H	18.6	18.9	19.0	19.3	19.8	17.1	17.4	17.6	17.9	18.3
8H	18.5	18.8	19.0	19.3	19.7	17.1	17.4	17.5	17.8	18.3
12H	18.5	18.7	19.0	19.2	19.7	17.0	17.3	17.5	17.7	18.2
X=12H Y=4H	18.6	19.0	19.0	19.4	19.8	17.2	17.5	17.6	17.9	18.4
6H	18.5	18.8	19.0	19.3	19.7	17.1	17.4	17.5	17.8	18.3
8H	18.5	18.7	19.0	19.2	19.7	17.0	17.3	17.5	17.7	18.2
Variations with the observer position at spacings:										
S=1.0H	+6.0/-13.4					+5.8/-14.2				
S=1.5H	+8.8/-15.6					+8.6/-17.1				
S=2.0H	+10.8/-17.0					+10.6/-17.8				

Calculate in accordance with CIE Pub.117. The table is revised with 584lm ($8\log(F/F_0) = -1.9$).

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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	319	54.7
FL (0°-30°)	258	44.2
FM (30°-60°)	60	10.3
FH (60°-80°)	1	0.1
FVH (80°-90°)	0	0.0
BACK LIGHT	264	45.3
BL (0°-30°)	224	38.4
BM (30°-60°)	40	6.9
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
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Test Type: TYPE C
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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	865.3	0.8	0.8	0.14	0.14
1.0-2.0	865.1	2.5	3.3	0.43	0.57
2.0-3.0	864.2	4.1	7.4	0.71	1.28
3.0-4.0	862.7	5.8	13.2	0.99	2.27
4.0-5.0	860.3	7.4	20.6	1.27	3.53
5.0-6.0	856.5	9.0	29.6	1.54	5.08
6.0-7.0	850.6	10.6	40.2	1.81	6.89
7.0-8.0	842.5	12.1	52.2	2.07	8.95
8.0-9.0	832.4	13.5	65.7	2.31	11.26
9.0-10.0	820.0	14.8	80.6	2.54	13.81
10.0-11.0	805.0	16.1	96.7	2.76	16.56
11.0-12.0	787.5	17.2	113.9	2.95	19.51
12.0-13.0	767.8	18.2	132.1	3.12	22.64
13.0-14.0	746.3	19.1	151.2	3.27	25.91
14.0-15.0	723.7	19.9	171.1	3.40	29.31
15.0-16.0	700.4	20.5	191.6	3.52	32.83
16.0-17.0	676.7	21.1	212.7	3.61	36.44
17.0-18.0	653.0	21.5	234.2	3.69	40.13
18.0-19.0	629.3	21.9	256.1	3.75	43.88
19.0-20.0	605.3	22.2	278.3	3.80	47.68
20.0-21.0	580.6	22.3	300.6	3.82	51.50
21.0-22.0	555.0	22.3	322.9	3.82	55.32
22.0-23.0	528.2	22.2	345.0	3.80	59.12
23.0-24.0	500.4	21.9	366.9	3.75	62.87
24.0-25.0	471.1	21.4	388.3	3.67	66.54
25.0-26.0	439.9	20.8	409.1	3.56	70.10
26.0-27.0	407.3	19.9	429.0	3.41	73.52
27.0-28.0	373.5	18.9	448.0	3.24	76.76
28.0-29.0	338.6	17.7	465.7	3.04	79.79
29.0-30.0	303.5	16.4	482.1	2.81	82.60
30.0-31.0	268.6	15.0	497.0	2.56	85.16
31.0-32.0	234.3	13.4	510.4	2.30	87.46
32.0-33.0	201.1	11.8	522.3	2.03	89.49
33.0-34.0	170.1	10.3	532.6	1.76	91.26
34.0-35.0	141.6	8.8	541.4	1.51	92.77
35.0-36.0	116.3	7.4	548.8	1.27	94.03

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

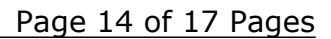
Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

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	94.9	6.2	555.0	1.06	95.09
37.0-38.0	77.0	5.1	560.1	0.88	95.98
38.0-39.0	62.0	4.2	564.3	0.73	96.70
39.0-40.0	49.2	3.4	567.8	0.59	97.29
40.0-41.0	38.6	2.7	570.5	0.47	97.76
41.0-42.0	30.2	2.2	572.7	0.38	98.14
42.0-43.0	23.9	1.8	574.5	0.30	98.44
43.0-44.0	19.1	1.4	575.9	0.25	98.69
44.0-45.0	15.1	1.2	577.1	0.20	98.89
45.0-46.0	11.9	0.9	578.0	0.16	99.05
46.0-47.0	9.3	0.7	578.8	0.13	99.17
47.0-48.0	7.5	0.6	579.4	0.10	99.28
48.0-49.0	6.2	0.5	579.9	0.09	99.36
49.0-50.0	5.1	0.4	580.3	0.07	99.44
50.0-51.0	4.2	0.4	580.7	0.06	99.50
51.0-52.0	3.7	0.3	581.0	0.05	99.55
52.0-53.0	3.3	0.3	581.3	0.05	99.60
53.0-54.0	3.0	0.3	581.5	0.05	99.65
54.0-55.0	2.7	0.2	581.8	0.04	99.69
55.0-56.0	2.2	0.2	582.0	0.03	99.72
56.0-57.0	2.0	0.2	582.2	0.03	99.75
57.0-58.0	1.8	0.2	582.3	0.03	99.78
58.0-59.0	1.5	0.1	582.5	0.02	99.81
59.0-60.0	1.3	0.1	582.6	0.02	99.83
60.0-61.0	1.2	0.1	582.7	0.02	99.85
61.0-62.0	0.9	0.1	582.8	0.02	99.86
62.0-63.0	0.9	0.1	582.9	0.01	99.88
63.0-64.0	0.8	0.1	583.0	0.01	99.89
64.0-65.0	0.7	0.1	583.0	0.01	99.90
65.0-66.0	0.6	0.1	583.1	0.01	99.91
66.0-67.0	0.6	0.1	583.1	0.01	99.92
67.0-68.0	0.6	0.1	583.2	0.01	99.93
68.0-69.0	0.5	0.0	583.3	0.01	99.94
69.0-70.0	0.5	0.0	583.3	0.01	99.95
70.0-71.0	0.5	0.1	583.3	0.01	99.96
71.0-72.0	0.4	0.0	583.4	0.01	99.96

C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
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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	865.4	865.4								
G1.0	868.5	862.2								
G2.0	871.3	858.4								
G3.0	873.5	853.8								
G4.0	875.7	847.6								
G5.0	877.7	840.1								
G6.0	879.2	828.9								
G7.0	879.6	814.5								
G8.0	878.9	797.0								
G9.0	876.4	777.1								
G10.0	871.7	754.8								
G11.0	862.6	731.1								
G12.0	849.8	706.4								
G13.0	834.0	681.1								
G14.0	814.9	655.3								
G15.0	794.2	630.3								
G16.0	771.4	605.7								
G17.0	748.0	581.5								
G18.0	724.7	557.7								
G19.0	701.9	533.0								
G20.0	679.0	507.2								
G21.0	655.9	480.2								
G22.0	631.7	452.1								
G23.0	606.1	423.0								
G24.0	579.8	392.7								
G25.0	551.3	360.5								
G26.0	520.5	327.4								
G27.0	487.6	293.7								
G28.0	452.8	259.8								
G29.0	415.4	226.6								
G30.0	377.0	194.9								
G31.0	337.3	165.3								
G32.0	296.3	138.2								
G33.0	255.2	114.5								
G34.0	216.9	93.7								
G35.0	180.1	75.8								
G36.0	148.2	61.0								

C Plane (°):0.0-180.0: 180.0

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Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	120.8	49.4								
G38.0	98.0	39.9								
G39.0	78.6	31.6								
G40.0	62.7	24.0								
G41.0	49.9	17.8								
G42.0	39.9	13.3								
G43.0	32.4	10.1								
G44.0	26.4	7.6								
G45.0	21.0	5.6								
G46.0	16.4	4.5								
G47.0	12.6	3.9								
G48.0	10.1	3.4								
G49.0	8.3	3.1								
G50.0	6.7	2.2								
G51.0	6.2	1.8								
G52.0	5.4	1.5								
G53.0	5.0	1.3								
G54.0	4.6	1.1								
G55.0	3.9	1.0								
G56.0	3.4	0.7								
G57.0	3.2	0.6								
G58.0	2.9	0.4								
G59.0	2.7	0.1								
G60.0	2.4	0.1								
G61.0	2.1	0.0								
G62.0	1.7	0.0								
G63.0	1.7	0.1								
G64.0	1.4	0.0								
G65.0	1.3	0.0								
G66.0	1.3	0.0								
G67.0	1.1	0.0								
G68.0	1.1	0.0								
G69.0	0.8	0.0								
G70.0	1.0	0.0								
G71.0	1.0	0.0								
G72.0	0.7	0.0								
G73.0	0.7	0.0								

C Plane (°):0.0-180.0: 180.0

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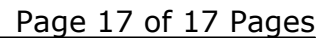
Gamma Plane (°):0.0-90.0:1.0

Test Device: CHL-6E

Distance: 2.905 m

Humidity:

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