

Report No.:

Test Time: 2026-08-24 16:41

Luminaire Property

Luminaire Category:

Luminaire Description: 10MM 15W

Current: 0.191 A

Power Factor: 0.321

Voltage: 225.6 V

Power: 13.90 W

Photometric Results

CIE Class: Direct

Measurement Flux: 941.6 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H128.4

Vertical Diffuse Angle(50%): V128.4

Luminaire Efficacy Rating (LER): 68

Max. Intensity: 275.58 cd

Total Rated Lamp Lumens: 941.6 lm

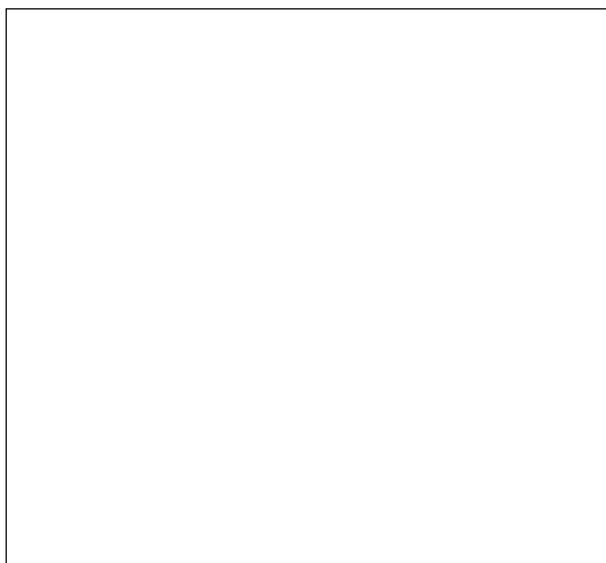
Efficiency: 100%

Upward Ratio: 0%

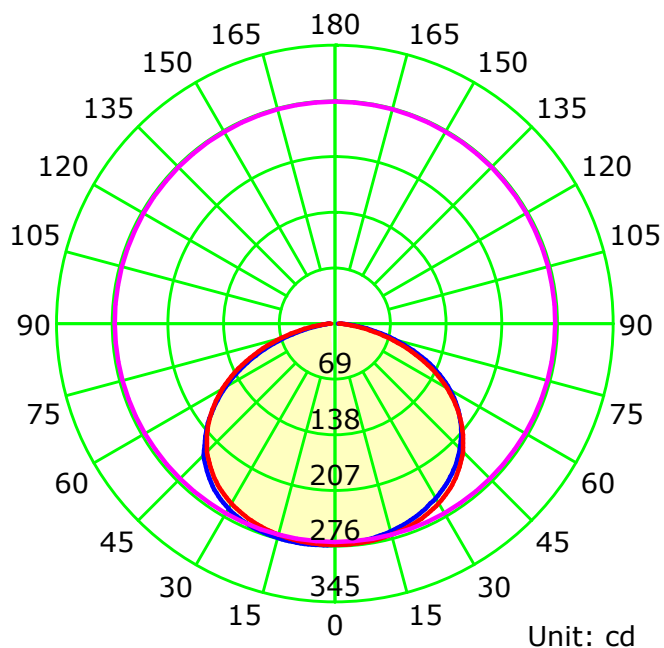
Central Intensity: 274.21 cd

Pos of Max. Intensity: H180 V9

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270 — G9

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

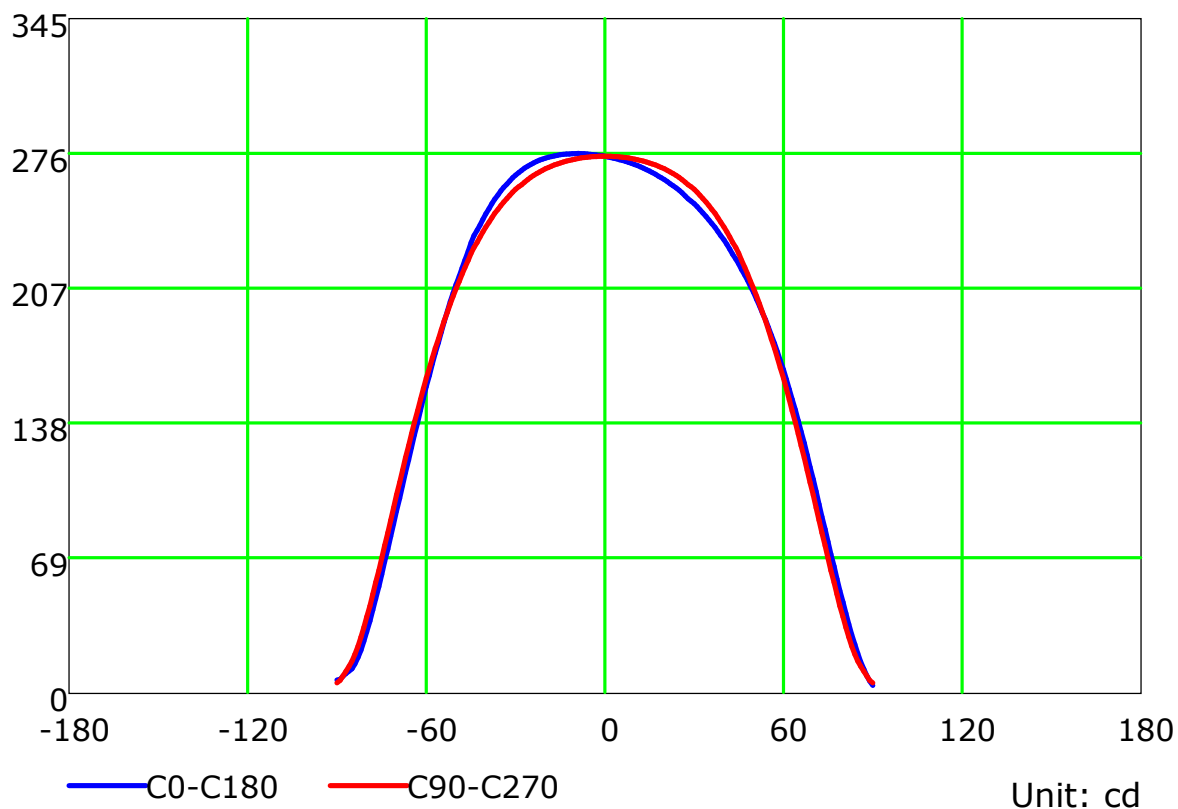
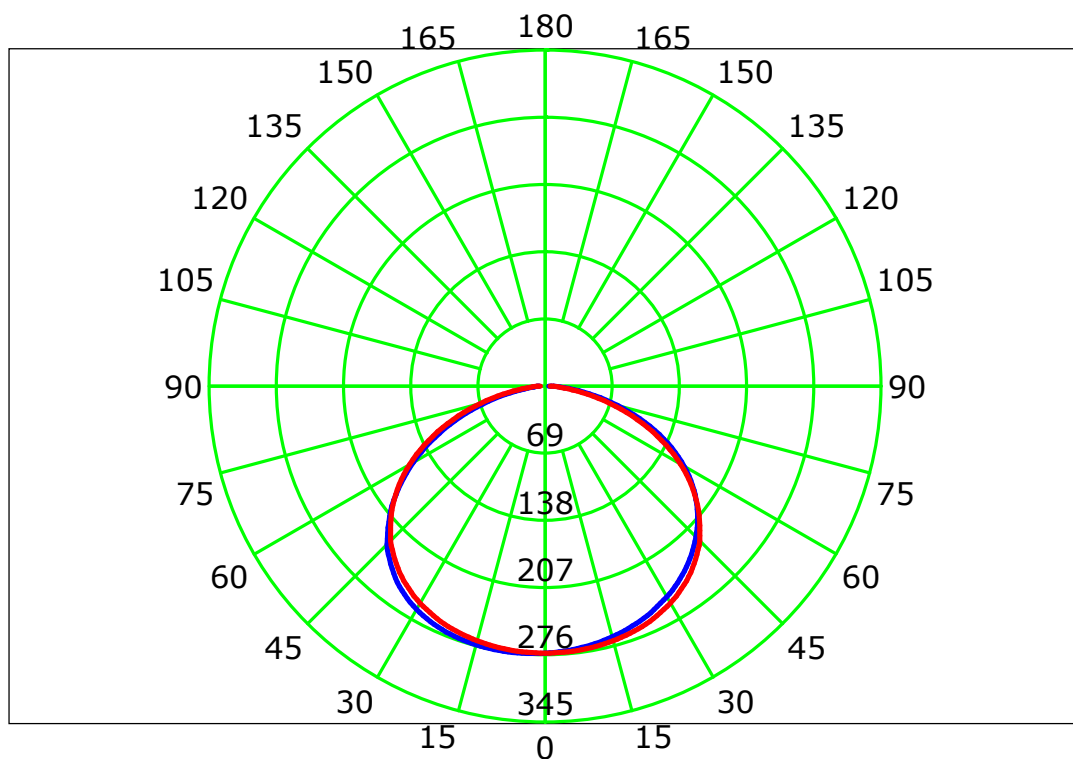
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

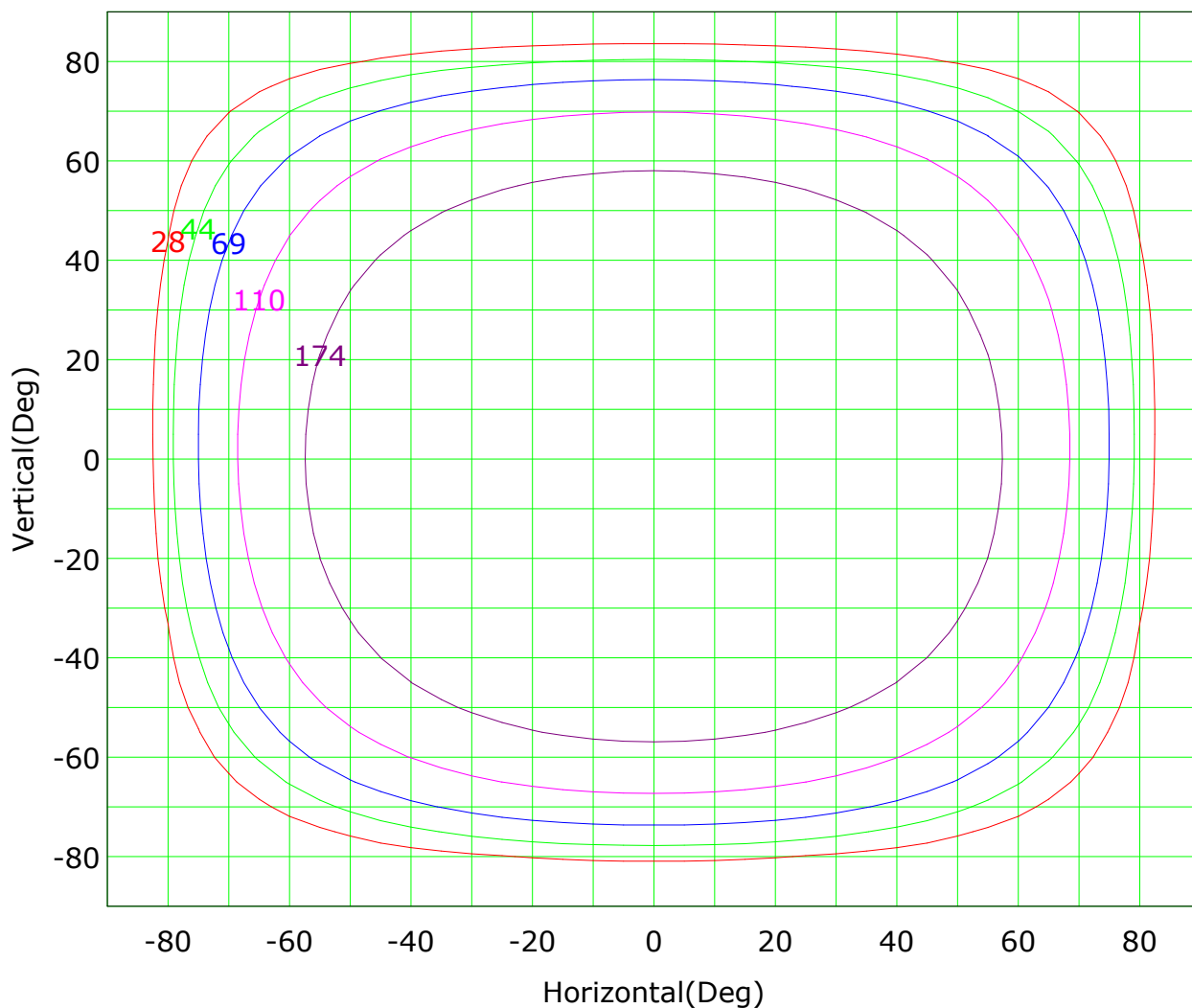
Luminous Intensity Distribution Curve



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:

Isocandela (rectangle)



Imax (100%): 276 cd

(10%):	28 cd	(16%):	44 cd
(25%):	69 cd	(40%):	110 cd
(63%):	174 cd	(100%):	276 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

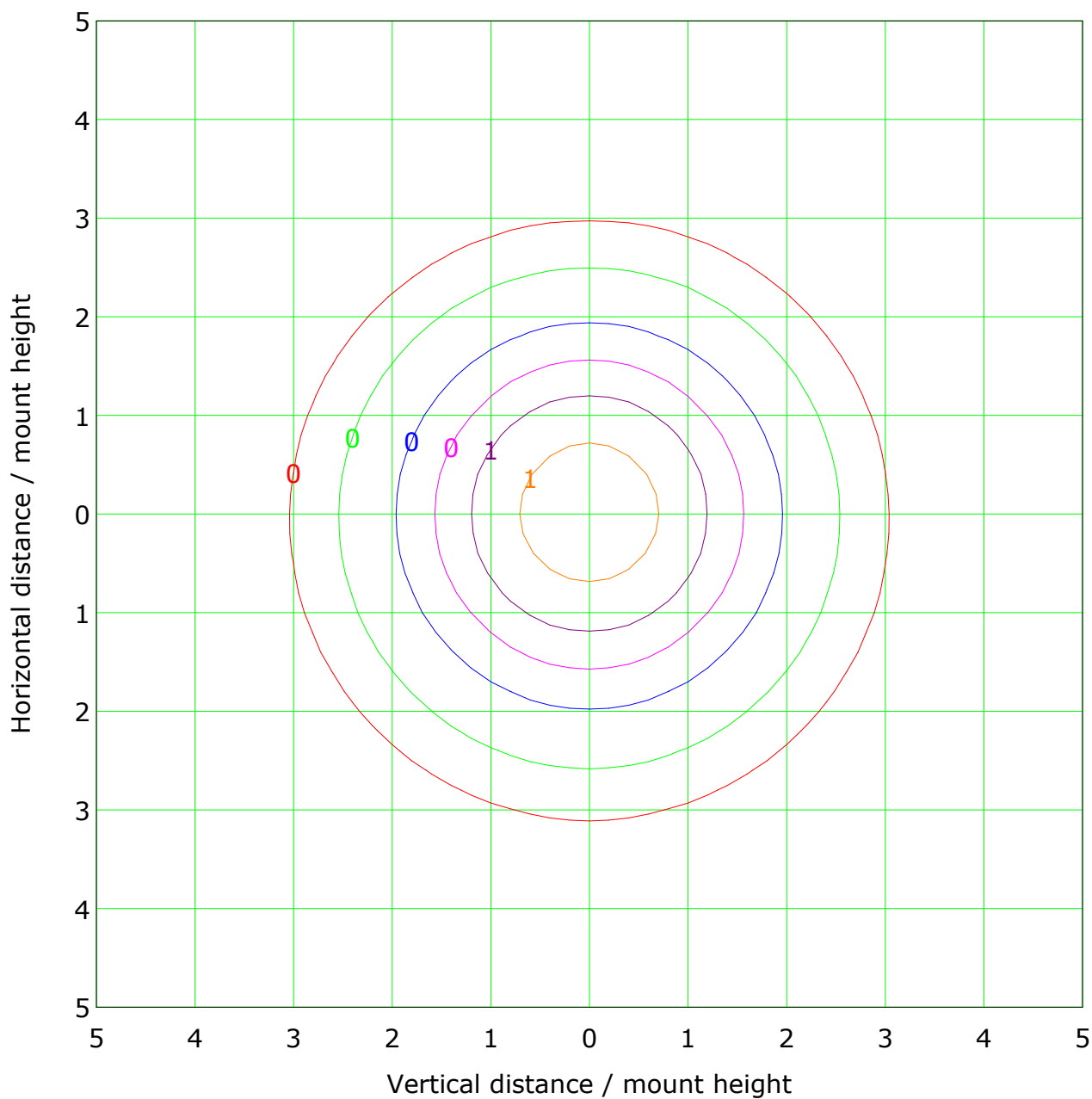
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

IsoLux Plot



C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

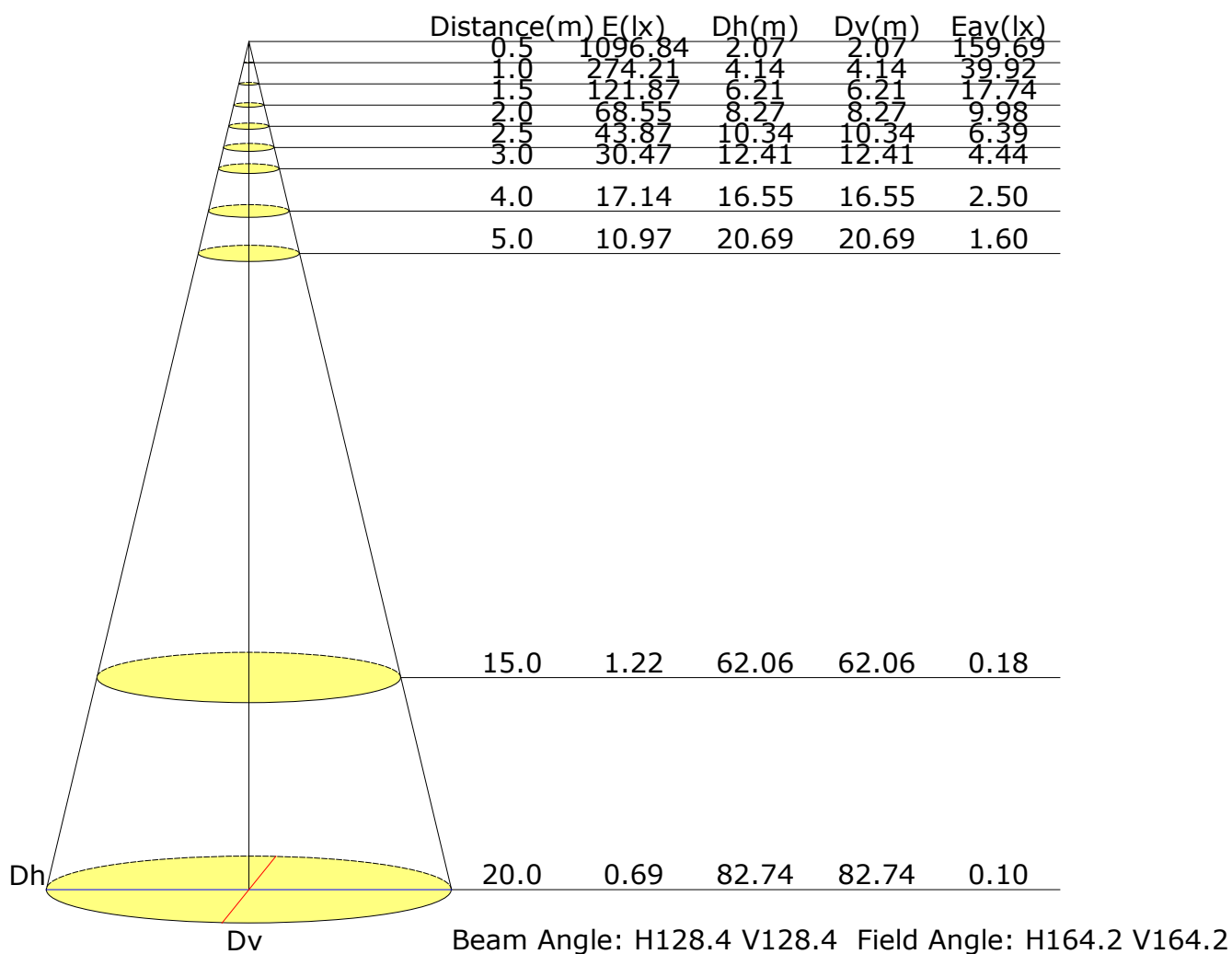
Test Device: CHL-6E

Distance: 3.010 m

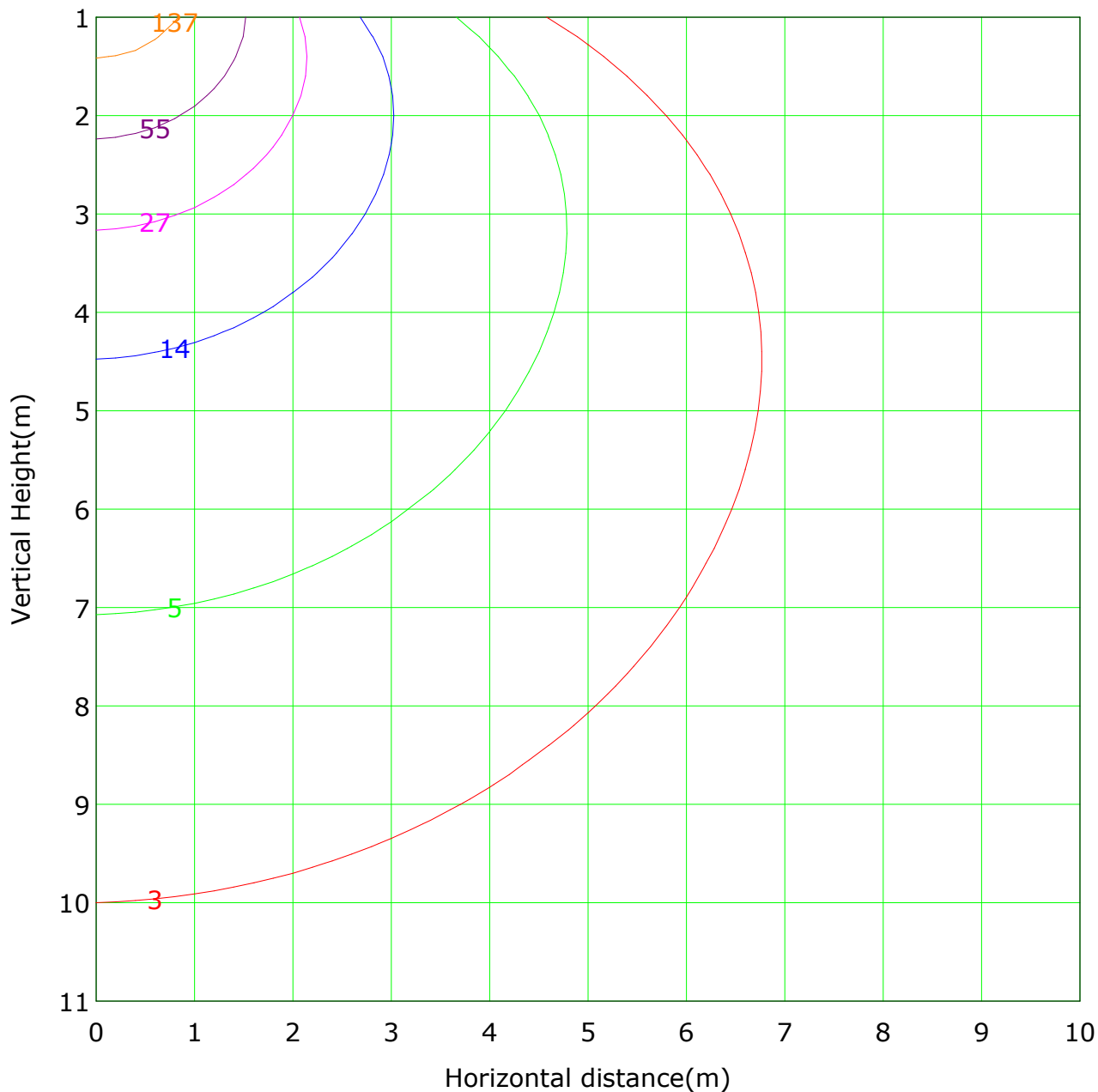
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot

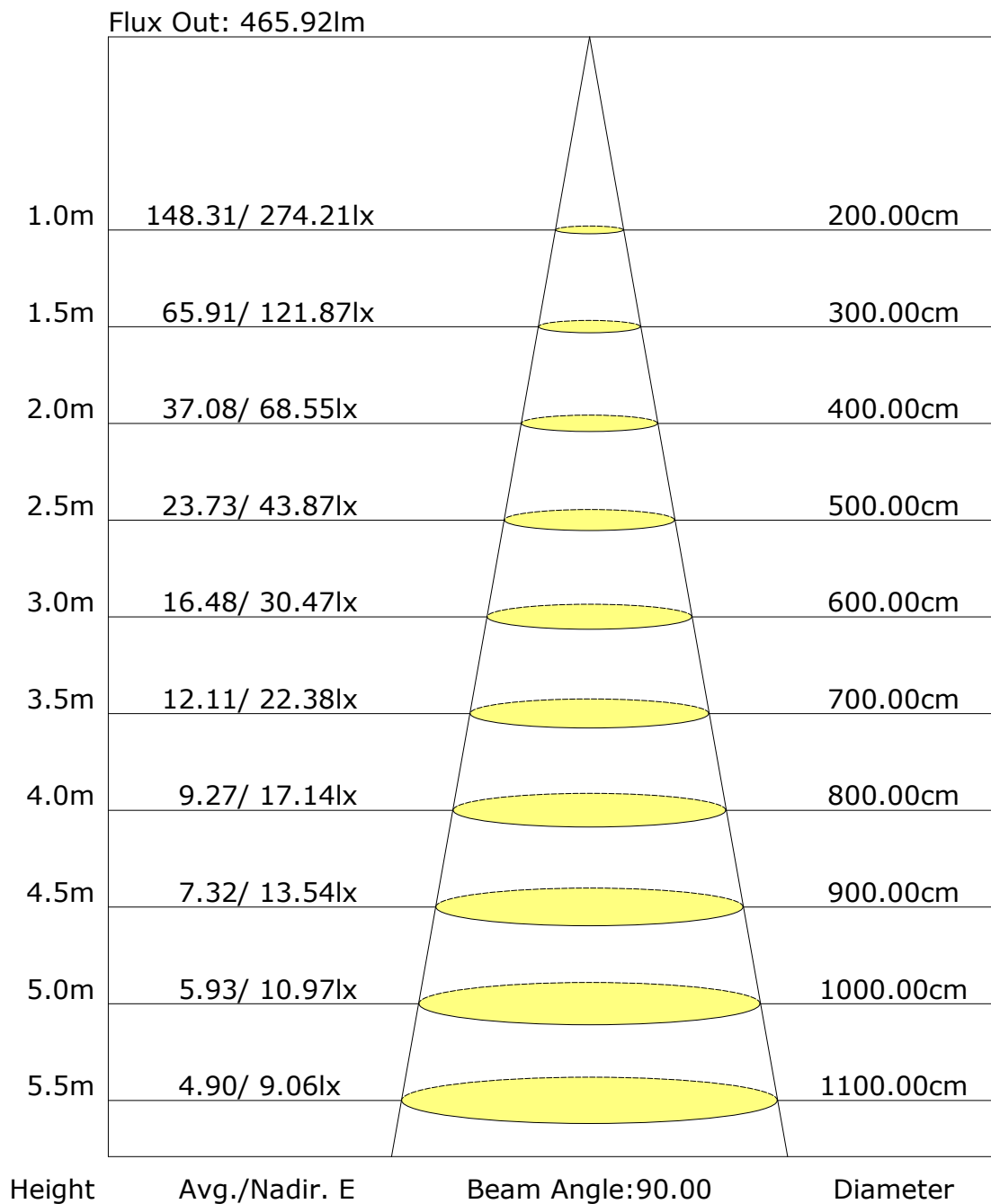


Lowest(m): 1m Highest(m): 11 Max Lux: 274	
(1%): 3 lx	(2%): 5 lx
(5%): 14 lx	(10%): 27 lx
(20%): 55 lx	(50%): 137 lx
(100%): 274 lx	

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:

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
Walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working 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	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$
3H	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$
4H	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$
6H	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$
8H	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$
12H	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$
x = 4H y = 2H	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$
3H	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$
4H	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$
6H	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$
8H	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$
12H	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$
x = 8H y = 4H	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$
6H	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$
8H	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$
12H	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$
x = 12H y = 4H	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$
6H	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$
8H	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$	1.\$

Calculate in accordance with CIE 190:2010

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	274.2	0.3	0.3	0.03	0.03
1.0-2.0	274.2	0.8	1.0	0.08	0.11
2.0-3.0	274.1	1.3	2.4	0.14	0.25
3.0-4.0	274.0	1.8	4.2	0.19	0.45
4.0-5.0	273.9	2.4	6.6	0.25	0.70
5.0-6.0	273.8	2.9	9.4	0.31	1.00
6.0-7.0	273.6	3.4	12.8	0.36	1.36
7.0-8.0	273.4	3.9	16.7	0.42	1.78
8.0-9.0	273.2	4.4	21.2	0.47	2.25
9.0-10.0	272.9	4.9	26.1	0.52	2.77
10.0-11.0	272.6	5.4	31.6	0.58	3.35
11.0-12.0	272.3	6.0	37.5	0.63	3.98
12.0-13.0	271.9	6.5	44.0	0.69	4.67
13.0-14.0	271.5	6.9	50.9	0.74	5.41
14.0-15.0	271.0	7.4	58.3	0.79	6.20
15.0-16.0	270.5	7.9	66.3	0.84	7.04
16.0-17.0	270.0	8.4	74.7	0.89	7.93
17.0-18.0	269.4	8.9	83.6	0.94	8.87
18.0-19.0	268.7	9.4	92.9	0.99	9.87
19.0-20.0	268.1	9.8	102.7	1.04	10.91
20.0-21.0	267.3	10.3	113.0	1.09	12.00
21.0-22.0	266.6	10.7	123.7	1.14	13.14
22.0-23.0	265.7	11.2	134.9	1.18	14.32
23.0-24.0	264.8	11.6	146.4	1.23	15.55
24.0-25.0	263.9	12.0	158.4	1.27	16.83
25.0-26.0	262.8	12.4	170.9	1.32	18.14
26.0-27.0	261.6	12.8	183.7	1.36	19.50
27.0-28.0	260.3	13.2	196.8	1.40	20.90
28.0-29.0	259.1	13.6	210.4	1.44	22.34
29.0-30.0	257.9	13.9	224.3	1.48	23.82
30.0-31.0	256.5	14.3	238.6	1.52	25.34
31.0-32.0	255.0	14.6	253.2	1.55	26.89
32.0-33.0	253.4	14.9	268.1	1.59	28.48
33.0-34.0	251.7	15.2	283.4	1.62	30.09
34.0-35.0	249.9	15.5	298.9	1.65	31.74
35.0-36.0	248.0	15.8	314.7	1.68	33.42

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	246.1	16.0	330.8	1.70	35.13
37.0-38.0	243.9	16.3	347.0	1.73	36.85
38.0-39.0	241.7	16.5	363.5	1.75	38.61
39.0-40.0	239.3	16.7	380.2	1.77	40.38
40.0-41.0	236.8	16.9	397.1	1.79	42.17
41.0-42.0	234.2	17.0	414.1	1.81	43.98
42.0-43.0	231.6	17.2	431.3	1.82	45.80
43.0-44.0	228.9	17.3	448.5	1.84	47.63
44.0-45.0	226.1	17.4	465.9	1.85	49.48
45.0-46.0	222.8	17.4	483.3	1.85	51.33
46.0-47.0	219.2	17.4	500.8	1.85	53.18
47.0-48.0	215.6	17.4	518.2	1.85	55.03
48.0-49.0	212.0	17.4	535.6	1.85	56.88
49.0-50.0	208.3	17.4	553.0	1.84	58.73
50.0-51.0	204.6	17.3	570.3	1.84	60.57
51.0-52.0	200.7	17.2	587.5	1.83	62.40
52.0-53.0	196.6	17.1	604.6	1.82	64.21
53.0-54.0	192.3	16.9	621.6	1.80	66.01
54.0-55.0	187.8	16.8	638.4	1.78	67.79
55.0-56.0	183.1	16.5	654.9	1.76	69.55
56.0-57.0	178.4	16.3	671.2	1.73	71.28
57.0-58.0	173.6	16.1	687.3	1.70	72.99
58.0-59.0	168.6	15.8	703.0	1.67	74.66
59.0-60.0	163.4	15.4	718.5	1.64	76.30
60.0-61.0	158.0	15.1	733.5	1.60	77.90
61.0-62.0	152.5	14.7	748.2	1.56	79.46
62.0-63.0	146.9	14.3	762.5	1.52	80.98
63.0-64.0	141.1	13.9	776.4	1.47	82.45
64.0-65.0	135.2	13.4	789.8	1.42	83.87
65.0-66.0	129.2	12.9	802.7	1.37	85.24
66.0-67.0	123.1	12.4	815.1	1.31	86.56
67.0-68.0	116.9	11.8	826.9	1.26	87.81
68.0-69.0	110.6	11.3	838.2	1.20	89.01
69.0-70.0	104.2	10.7	848.9	1.14	90.15
70.0-71.0	97.8	10.1	859.0	1.07	91.22
71.0-72.0	91.3	9.5	868.5	1.01	92.23

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	274.2	274.2								
G1.0	273.9	274.5								
G2.0	273.6	274.7								
G3.0	273.3	274.9								
G4.0	272.9	275.1								
G5.0	272.5	275.2								
G6.0	272.0	275.4								
G7.0	271.6	275.5								
G8.0	271.1	275.5								
G9.0	270.5	275.6								
G10.0	270.0	275.5								
G11.0	269.4	275.5								
G12.0	268.7	275.4								
G13.0	268.0	275.3								
G14.0	267.4	275.1								
G15.0	266.6	274.9								
G16.0	265.8	274.7								
G17.0	265.0	274.4								
G18.0	264.1	274.1								
G19.0	263.2	273.7								
G20.0	262.2	273.2								
G21.0	261.2	272.7								
G22.0	260.1	272.2								
G23.0	259.1	271.5								
G24.0	257.9	270.8								
G25.0	256.8	270.0								
G26.0	255.5	269.1								
G27.0	253.9	268.1								
G28.0	252.4	267.0								
G29.0	251.3	265.9								
G30.0	250.0	264.6								
G31.0	248.4	263.2								
G32.0	246.8	261.7								
G33.0	245.2	260.0								
G34.0	243.4	258.3								
G35.0	241.6	256.4								
G36.0	239.7	254.4								

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	237.8	252.3								
G38.0	235.8	249.9								
G39.0	233.6	247.4								
G40.0	231.4	244.8								
G41.0	229.1	241.9								
G42.0	226.8	239.0								
G43.0	224.1	236.3								
G44.0	221.7	233.5								
G45.0	219.1	230.0								
G46.0	216.3	225.6								
G47.0	213.5	221.2								
G48.0	210.7	217.1								
G49.0	207.6	212.8								
G50.0	204.4	208.5								
G51.0	201.1	204.3								
G52.0	197.7	199.8								
G53.0	194.1	194.9								
G54.0	190.5	189.6								
G55.0	186.7	184.3								
G56.0	182.6	178.9								
G57.0	178.5	173.5								
G58.0	174.2	168.1								
G59.0	169.7	162.3								
G60.0	165.0	156.5								
G61.0	160.2	150.4								
G62.0	155.1	144.4								
G63.0	150.0	138.1								
G64.0	144.6	131.8								
G65.0	139.1	125.4								
G66.0	133.4	119.0								
G67.0	127.6	112.5								
G68.0	121.5	105.9								
G69.0	115.3	99.4								
G70.0	109.1	92.9								
G71.0	102.8	86.4								
G72.0	96.3	79.9								
G73.0	90.0	73.4								

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:

