

Report No.:55.03520 Mine Recessed
Downlight

Test Time: 2024-10-07 20:03

Luminaire Property

Luminaire Category:

Luminaire Description: Bridgelux 5050 4000K CRI90 Voltage: 230.6 V

Current: 0.043 A

Power: 8.30 W

Power Factor: 0.835

Photometric Results

CIE Class: Direct

Measurement Flux: 560.1 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H18.6

Vertical Diffuse Angle(50%): V18.6

Luminaire Efficacy Rating (LER): 67

Max. Intensity: 3474.27 cd

Total Rated Lamp Lumens: 560.1 lm

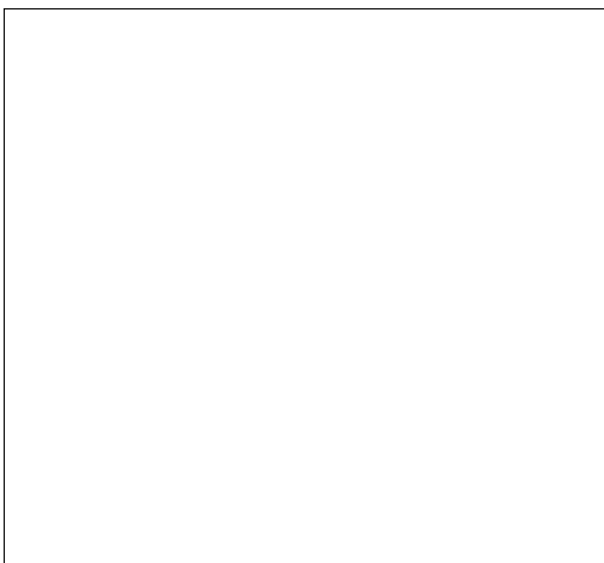
Efficiency: 100%

Upward Ratio: 0%

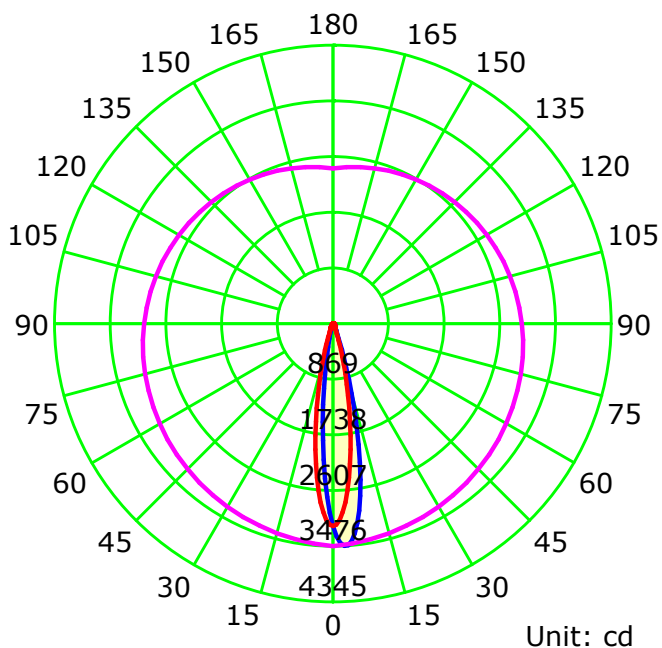
Central Intensity: 3160.41 cd

Pos of Max. Intensity: H0 V3

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270 — G3

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

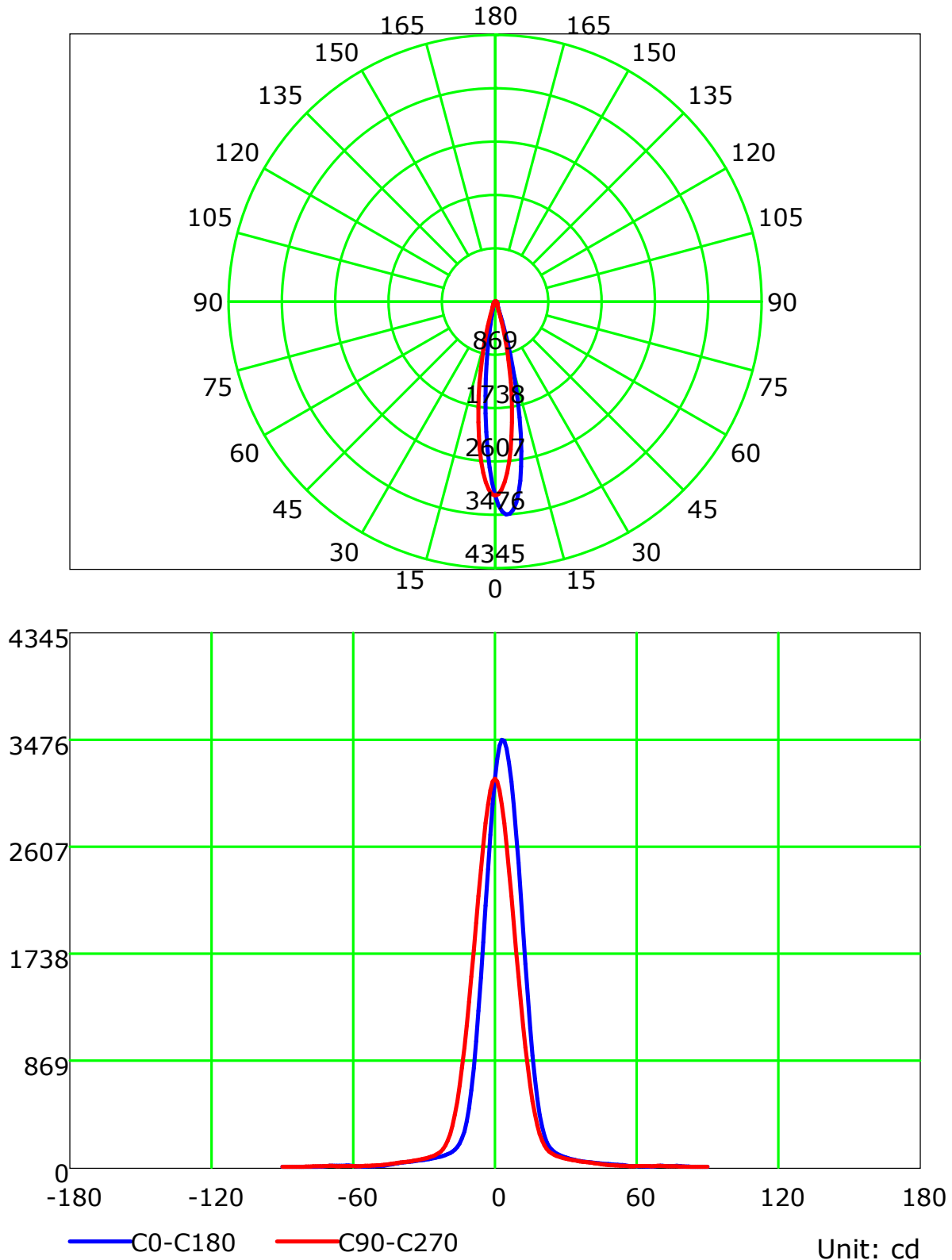
Test Device: CHL-6E

Distance: 3.328 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

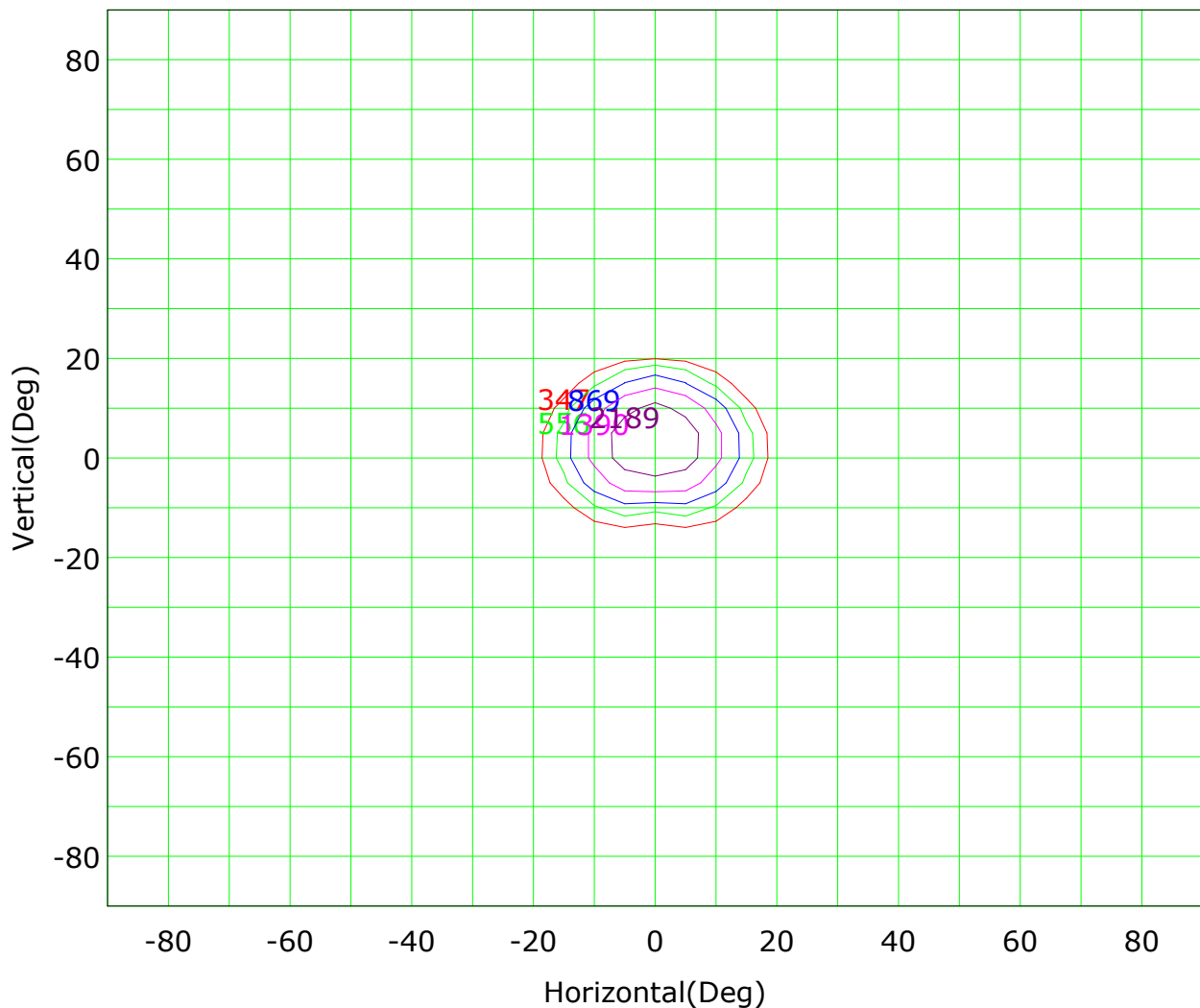
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

Isocandela (rectangle)



Imax (100%): 3474 cd

(10%): 347 cd	(16%): 556 cd
(25%): 869 cd	(40%): 1390 cd
(63%): 2189 cd	(100%): 3474 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

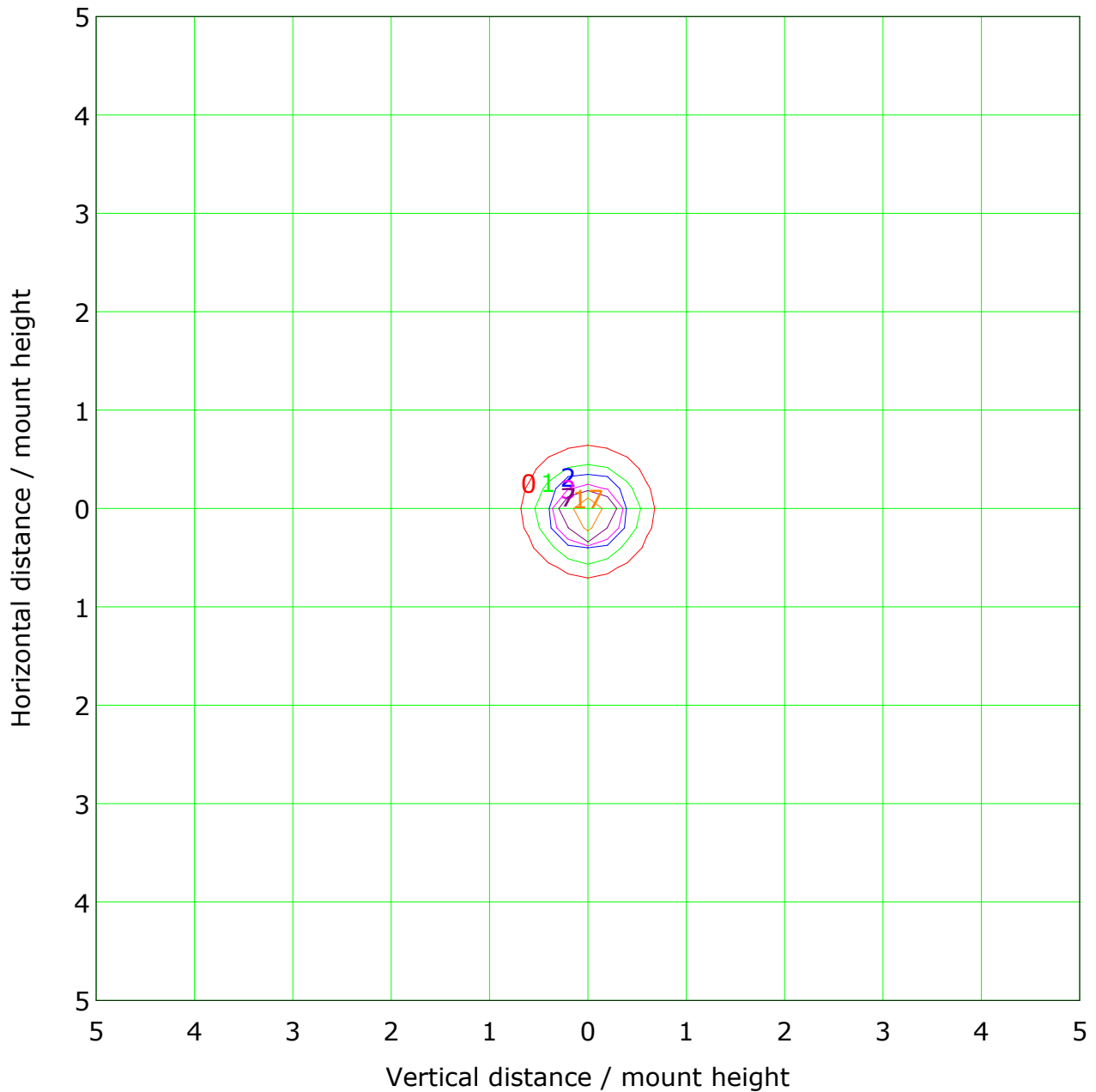
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

IsoLux Plot

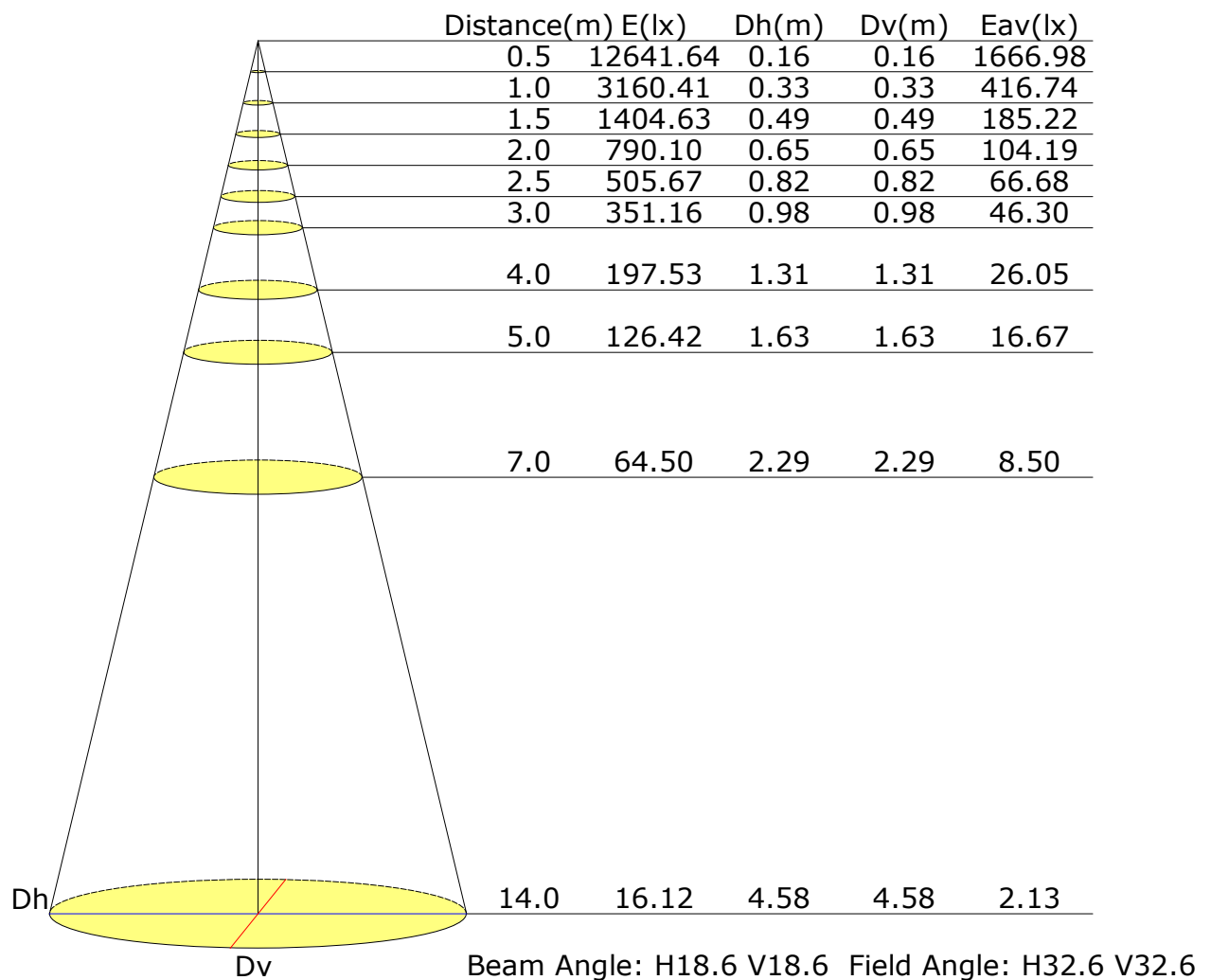


Mounting Height: 10m		Max Lux(100%): 35 lx	
(1%):	0 lx	(2%):	1 lx
(5%):	2 lx	(10%):	3 lx
(20%):	7 lx	(50%):	17 lx
(100%):	35 lx		

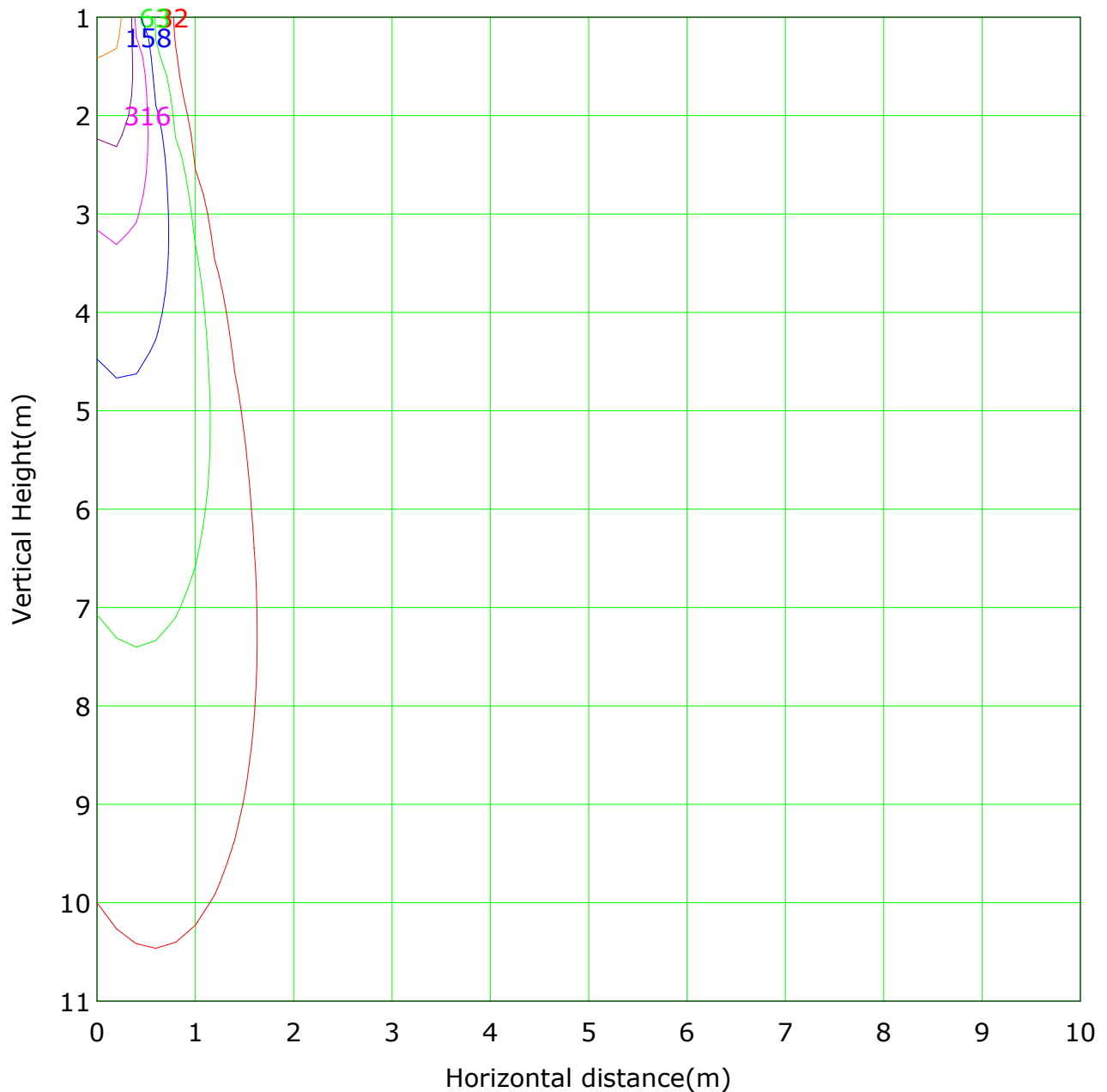
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.328 m
Humidity:
Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



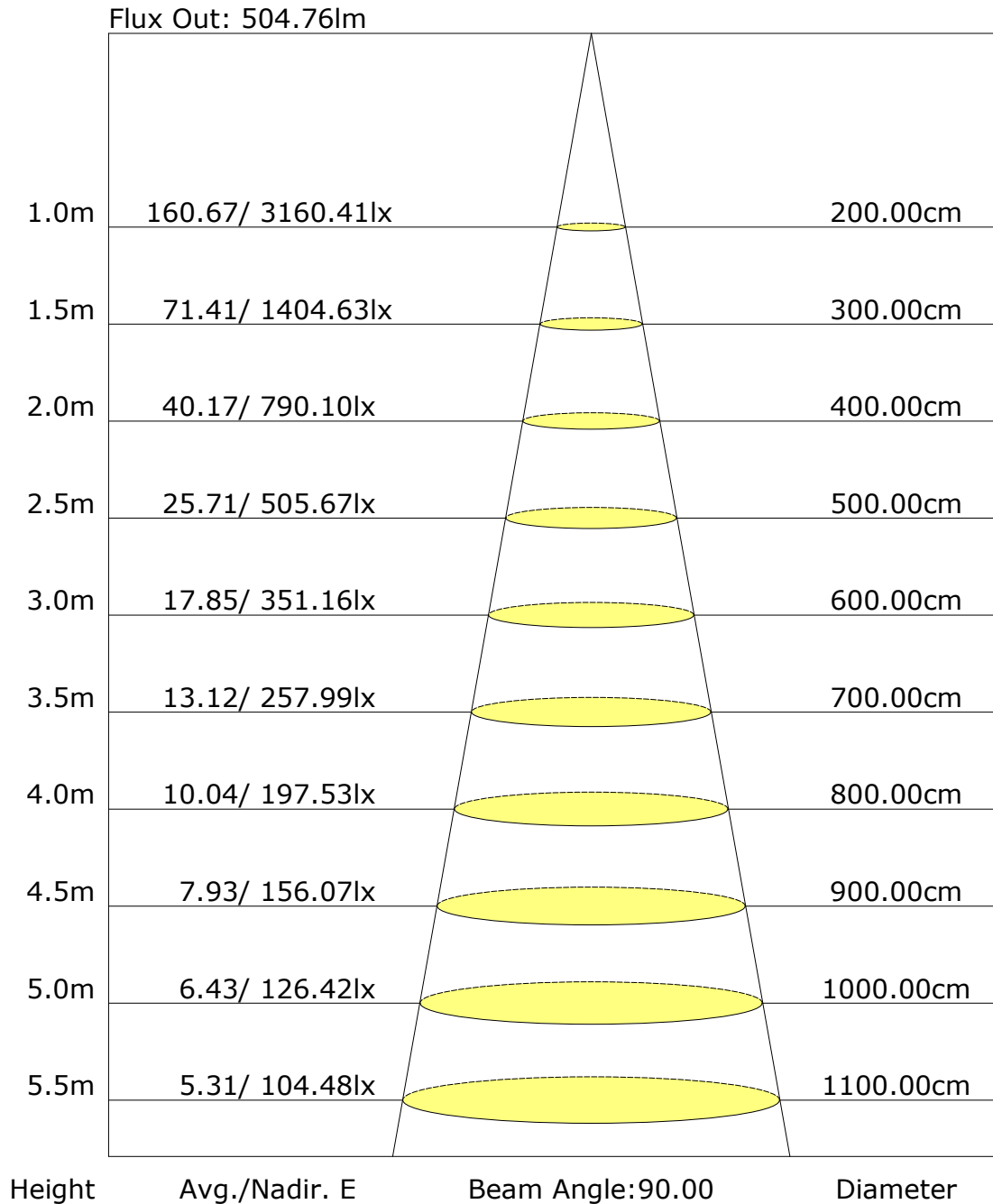
Lowest(m): 1m Highest(m): 11 Max Lux: 3160

(1%): 32 lx	(2%): 63 lx
(5%): 158 lx	(10%): 316 lx
(20%): 632 lx	(50%): 1580 lx
(100%): 3160 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: 3.328 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: 3.328 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	3148.9	3.0	3.0	0.54	0.54
1.0-2.0	3101.1	8.9	11.9	1.59	2.13
2.0-3.0	3007.3	14.4	26.3	2.57	4.70
3.0-4.0	2873.8	19.2	45.5	3.43	8.13
4.0-5.0	2707.5	23.3	68.8	4.16	12.29
5.0-6.0	2517.7	26.5	95.3	4.72	17.01
6.0-7.0	2312.0	28.7	124.0	5.12	22.14
7.0-8.0	2096.4	30.0	154.0	5.36	27.50
8.0-9.0	1876.7	30.4	184.4	5.43	32.93
9.0-10.0	1659.3	30.0	214.5	5.36	38.29
10.0-11.0	1448.8	29.0	243.4	5.17	43.46
11.0-12.0	1249.2	27.3	270.7	4.88	48.34
12.0-13.0	1063.4	25.2	296.0	4.51	52.84
13.0-14.0	892.4	22.8	318.8	4.08	56.92
14.0-15.0	737.7	20.3	339.1	3.62	60.54
15.0-16.0	601.2	17.6	356.7	3.15	63.68
16.0-17.0	484.5	15.1	371.8	2.69	66.38
17.0-18.0	387.6	12.8	384.6	2.28	68.66
18.0-19.0	309.3	10.8	395.3	1.92	70.58
19.0-20.0	247.5	9.1	404.4	1.62	72.20
20.0-21.0	200.6	7.7	412.1	1.38	73.57
21.0-22.0	166.3	6.7	418.8	1.19	74.77
22.0-23.0	141.5	5.9	424.7	1.06	75.83
23.0-24.0	123.8	5.4	430.1	0.97	76.79
24.0-25.0	111.1	5.1	435.2	0.90	77.70
25.0-26.0	101.1	4.8	439.9	0.85	78.55
26.0-27.0	93.0	4.5	444.5	0.81	79.36
27.0-28.0	86.5	4.4	448.9	0.78	80.14
28.0-29.0	80.9	4.2	453.1	0.76	80.90
29.0-30.0	75.9	4.1	457.2	0.73	81.63
30.0-31.0	71.3	4.0	461.2	0.71	82.34
31.0-32.0	67.1	3.8	465.0	0.69	83.02
32.0-33.0	63.2	3.7	468.7	0.66	83.69
33.0-34.0	59.5	3.6	472.3	0.64	84.33
34.0-35.0	56.0	3.5	475.8	0.62	84.95
35.0-36.0	52.9	3.4	479.2	0.60	85.56

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: 3.328 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	50.2	3.3	482.5	0.58	86.14
37.0-38.0	47.6	3.2	485.6	0.57	86.71
38.0-39.0	45.2	3.1	488.7	0.55	87.26
39.0-40.0	42.9	3.0	491.7	0.53	87.79
40.0-41.0	40.6	2.9	494.6	0.52	88.31
41.0-42.0	38.1	2.8	497.4	0.49	88.80
42.0-43.0	35.4	2.6	500.0	0.47	89.27
43.0-44.0	32.7	2.5	502.5	0.44	89.71
44.0-45.0	30.0	2.3	504.8	0.41	90.12
45.0-46.0	27.5	2.2	506.9	0.38	90.51
46.0-47.0	24.8	2.0	508.9	0.35	90.86
47.0-48.0	22.6	1.8	510.7	0.33	91.19
48.0-49.0	21.1	1.7	512.5	0.31	91.50
49.0-50.0	19.9	1.7	514.1	0.30	91.79
50.0-51.0	18.7	1.6	515.7	0.28	92.07
51.0-52.0	17.7	1.5	517.2	0.27	92.34
52.0-53.0	16.9	1.5	518.7	0.26	92.61
53.0-54.0	16.1	1.4	520.1	0.25	92.86
54.0-55.0	15.1	1.3	521.4	0.24	93.10
55.0-56.0	13.7	1.2	522.7	0.22	93.32
56.0-57.0	12.1	1.1	523.8	0.20	93.52
57.0-58.0	11.2	1.0	524.8	0.19	93.70
58.0-59.0	11.4	1.1	525.9	0.19	93.89
59.0-60.0	12.3	1.2	527.1	0.21	94.10
60.0-61.0	13.5	1.3	528.3	0.23	94.33
61.0-62.0	13.8	1.3	529.7	0.24	94.57
62.0-63.0	13.6	1.3	531.0	0.24	94.81
63.0-64.0	13.3	1.3	532.3	0.23	95.04
64.0-65.0	12.9	1.3	533.6	0.23	95.27
65.0-66.0	12.5	1.2	534.8	0.22	95.49
66.0-67.0	12.3	1.2	536.1	0.22	95.71
67.0-68.0	12.8	1.3	537.4	0.23	95.94
68.0-69.0	14.1	1.4	538.8	0.26	96.20
69.0-70.0	15.1	1.5	540.3	0.28	96.47
70.0-71.0	14.7	1.5	541.9	0.27	96.75
71.0-72.0	13.5	1.4	543.3	0.25	97.00

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: 3.328 m
Humidity:
Inspector:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.328 m
Humidity:
Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C180.0								
G0.0	3160.4	3160.4								
G1.0	3319.4	2955.3								
G2.0	3425.5	2704.3								
G3.0	3474.3	2425.2								
G4.0	3466.6	2129.0								
G5.0	3403.6	1830.9								
G6.0	3292.6	1543.8								
G7.0	3137.6	1274.1								
G8.0	2947.4	1026.6								
G9.0	2722.6	810.4								
G10.0	2476.0	628.3								
G11.0	2206.3	484.5								
G12.0	1930.2	375.5								
G13.0	1652.9	295.0								
G14.0	1383.6	238.2								
G15.0	1131.2	197.8								
G16.0	908.1	167.9								
G17.0	715.8	146.0								
G18.0	557.8	130.7								
G19.0	429.8	118.8								
G20.0	331.4	109.9								
G21.0	258.7	102.3								
G22.0	207.7	96.3								
G23.0	171.3	90.8								
G24.0	147.1	85.9								
G25.0	130.1	81.2								
G26.0	116.6	76.5								
G27.0	106.2	72.6								
G28.0	98.1	69.2								
G29.0	90.4	66.2								
G30.0	83.4	63.6								
G31.0	77.6	60.5								
G32.0	72.1	58.1								
G33.0	66.7	55.9								
G34.0	62.1	53.5								
G35.0	57.6	51.0								
G36.0	54.4	48.7								

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: 3.328 m

Humidity:

Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	51.0	46.6								
G38.0	48.2	44.6								
G39.0	45.7	42.5								
G40.0	43.6	40.0								
G41.0	41.6	37.1								
G42.0	39.7	33.8								
G43.0	37.7	30.3								
G44.0	36.0	26.7								
G45.0	34.3	23.2								
G46.0	32.7	19.9								
G47.0	30.8	16.0								
G48.0	29.0	14.5								
G49.0	27.6	13.4								
G50.0	25.8	12.7								
G51.0	24.1	12.2								
G52.0	22.8	11.7								
G53.0	21.7	11.2								
G54.0	20.7	10.8								
G55.0	18.9	10.1								
G56.0	15.9	9.8								
G57.0	13.4	9.3								
G58.0	12.9	9.3								
G59.0	12.4	10.9								
G60.0	11.9	14.1								
G61.0	11.4	16.4								
G62.0	10.8	16.6								
G63.0	10.4	16.6								
G64.0	9.9	16.4								
G65.0	9.6	15.8								
G66.0	9.3	15.3								
G67.0	9.6	14.9								
G68.0	11.7	14.9								
G69.0	14.0	15.8								
G70.0	15.0	15.5								
G71.0	14.8	13.7								
G72.0	13.9	11.7								
G73.0	12.9	9.8								

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: 3.328 m
Humidity:
Inspector:

Unit: cd

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.328 m
Humidity:
Inspector: