

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P752248

Luminaire Tested: LD4D70BD010-EU4DR3070959035-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D70BD010-EU4DR3070959035-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6693.6 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

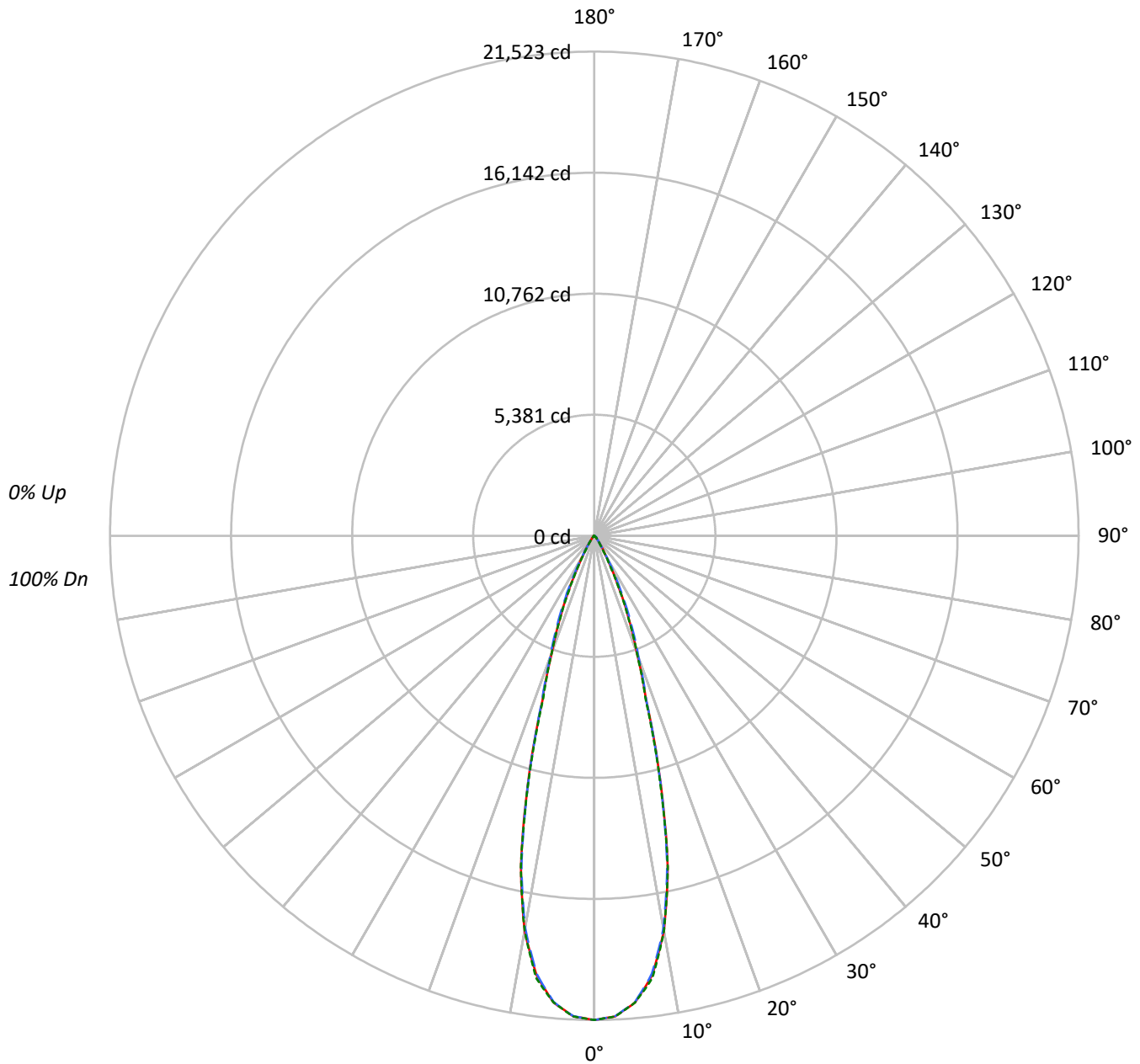


Downlight

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1647444	1647444	1647444
5°	1600144	1598276	1600228
10°	1385970	1376192	1385644
15°	904280	899422	894897
20°	449652	466522	449049
25°	226503	255421	221867
30°	90692	98814	79016
35°	42068	40283	33770
40°	18166	20164	17106
45°	12817	15902	12925
50°	4406	11575	4656
55°	2536	4791	2682
60°	1776	2097	1776
65°	1141	1141	1141
70°	716	470	716
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 15902 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1892.6	28.3
10°-20°	3048.1	45.5
20°-30°	1317.2	19.7
30°-40°	300.2	4.5
40°-50°	103.1	1.5
50°-60°	25.2	0.4
60°-70°	6.5	0.1
70°-80°	0.7	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	6257.9	93.5
0°-40°	6558.1	98.0
0°-60°	6686.3	99.9
0°-90°	6693.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6693.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21523	21523	21523	21523	21523	
5°	20826	20806	20801	20845	20827	1894
15°	11411	11274	11350	11313	11293	3056
25°	2682	2783	3024	2713	2627	1284
35°	450	460	431	428	361	305
45°	118	147	147	147	119	84
55°	19	20	36	21	20	19
65°	6	6	6	6	6	6
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21523.0	21523.0	21523.0	21523.0	21523.0
2.5°	21380.3	21365.5	21374.0	21384.5	21388.8
5°	20825.5	20805.5	20801.2	20844.6	20826.6
7.5°	19706.5	19678.0	19634.6	19732.9	19824.8
10°	17831.9	17800.2	17706.1	17752.6	17827.7
12.5°	15064.4	14961.9	14959.8	15107.7	15087.6
15°	11411.4	11274.0	11350.1	11313.1	11293.0
17.5°	7673.8	7621.0	7722.4	7691.8	7559.7
20°	5520.2	5534.0	5727.3	5630.1	5512.8
22.5°	4028.2	4077.8	4307.1	4056.7	3964.8
25°	2681.9	2783.4	3024.3	2712.6	2627.0
27.5°	1649.5	1696.0	1940.1	1628.4	1581.9
30°	1026.1	1002.8	1118.0	959.5	894.0
32.5°	673.1	643.5	680.5	610.8	557.9
35°	450.2	459.7	431.1	428.0	361.4
37.5°	281.1	323.4	285.3	304.3	232.5
40°	181.8	234.6	201.8	223.0	171.2
42.5°	149.0	180.7	165.9	176.5	152.2
45°	118.4	146.9	146.9	146.9	119.4
47.5°	65.5	98.3	125.7	100.4	69.7
50°	37.0	49.7	97.2	51.8	39.1
52.5°	25.4	28.5	66.6	29.6	26.4
55°	19.0	20.1	35.9	21.1	20.1
57.5°	14.8	15.9	19.0	15.9	14.8
60°	11.6	11.6	13.7	12.7	11.6
62.5°	8.5	8.5	9.5	8.5	8.5
65°	6.3	6.3	6.3	6.3	6.3
67.5°	3.2	4.2	4.2	4.2	4.2
70°	3.2	2.1	2.1	2.1	3.2
72.5°	2.1	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)