

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: P752247

Luminaire Tested: LD4D70BD010-EU4DR3070959035-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752247
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-EU4DR3070959035-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5389.0 lumens
Efficiency: N/A
Efficacy: 80.9 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

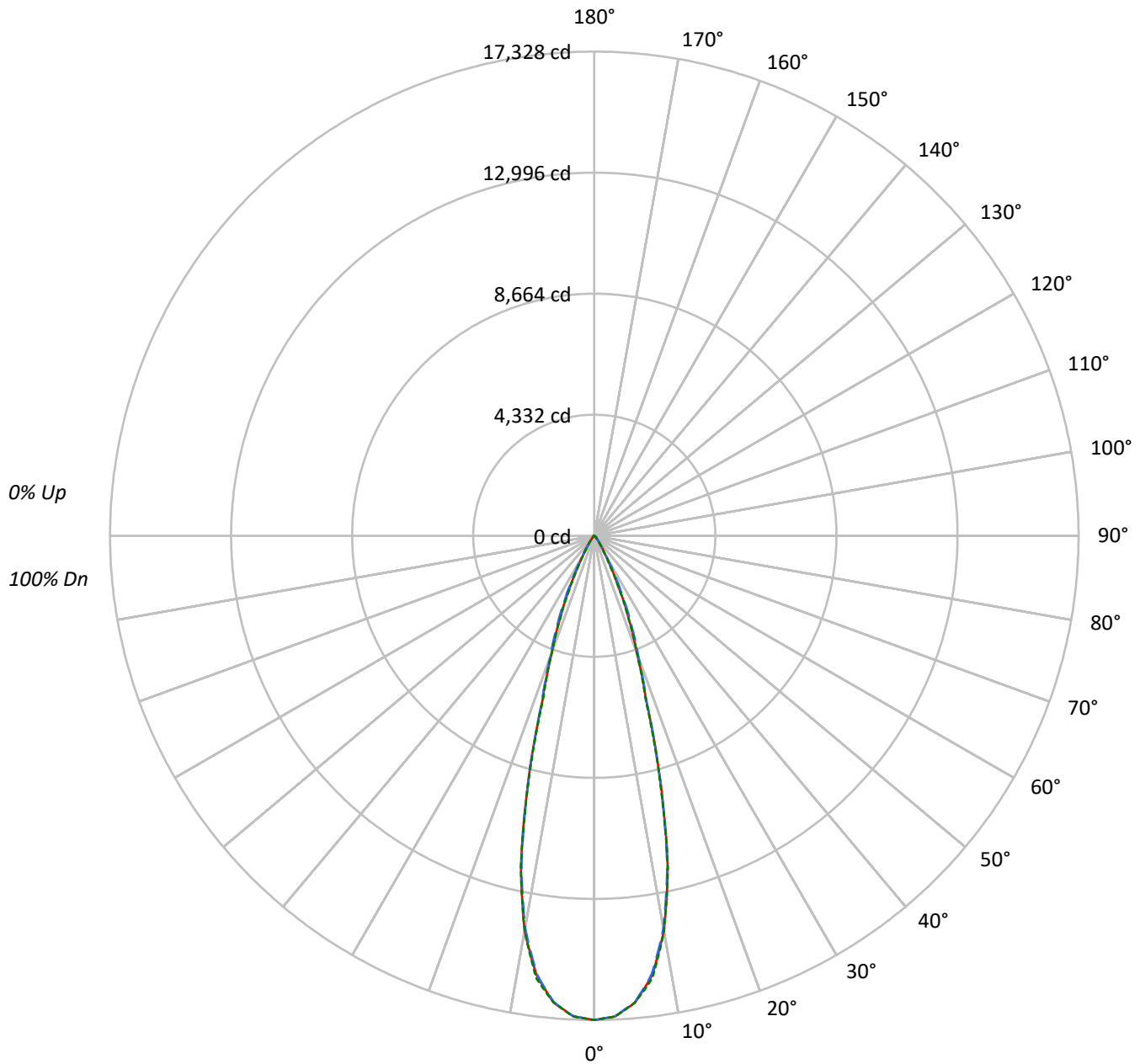


Downlight

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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°	1326344	1326344	1326344
5°	1288267	1286761	1288329
10°	1115832	1107966	1115568
15°	728026	724120	720474
20°	362014	375593	361525
25°	182358	205634	178625
30°	73015	79555	63610
35°	33863	32434	27192
40°	14618	16237	13769
45°	10316	12806	10403
50°	3549	9324	3751
55°	2042	3857	2162
60°	1439	1699	1439
65°	924	924	924
70°	582	380	582
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 12806 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1523.7	28.3
10°-20°	2454.0	45.5
20°-30°	1060.4	19.7
30°-40°	241.7	4.5
40°-50°	83.0	1.5
50°-60°	20.3	0.4
60°-70°	5.3	0.1
70°-80°	0.6	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°	5038.2	93.5
0°-40°	5279.9	98.0
0°-60°	5383.1	99.9
0°-90°	5389.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5389.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17328	17328	17328	17328	17328	
5°	16766	16750	16747	16782	16767	1525
15°	9187	9077	9138	9108	9092	2460
25°	2159	2241	2435	2184	2115	1034
35°	362	370	347	345	291	246
45°	95	118	118	118	96	68
55°	15	16	29	17	16	15
65°	5	5	5	5	5	5
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°	17328.0	17328.0	17328.0	17328.0	17328.0
2.5°	17213.1	17201.2	17208.0	17216.5	17219.9
5°	16766.5	16750.3	16746.9	16781.8	16767.3
7.5°	15865.5	15842.6	15807.7	15886.8	15960.8
10°	14356.3	14330.8	14255.1	14292.5	14352.9
12.5°	12128.2	12045.7	12044.0	12163.1	12146.9
15°	9187.2	9076.6	9137.9	9108.1	9091.9
17.5°	6178.1	6135.6	6217.2	6192.6	6086.2
20°	4444.3	4455.4	4611.0	4532.8	4438.3
22.5°	3243.0	3283.0	3467.6	3266.0	3192.0
25°	2159.2	2240.9	2434.8	2183.9	2115.0
27.5°	1328.0	1365.4	1562.0	1311.0	1273.6
30°	826.1	807.4	900.1	772.5	719.7
32.5°	541.9	518.1	547.9	491.7	449.2
35°	362.4	370.1	347.1	344.6	291.0
37.5°	226.3	260.3	229.7	245.0	187.2
40°	146.3	188.9	162.5	179.5	137.8
42.5°	120.0	145.5	133.6	142.1	122.5
45°	95.3	118.3	118.3	118.3	96.1
47.5°	52.7	79.1	101.2	80.8	56.1
50°	29.8	40.0	78.3	41.7	31.5
52.5°	20.4	23.0	53.6	23.8	21.3
55°	15.3	16.2	28.9	17.0	16.2
57.5°	11.9	12.8	15.3	12.8	11.9
60°	9.4	9.4	11.1	10.2	9.4
62.5°	6.8	6.8	7.7	6.8	6.8
65°	5.1	5.1	5.1	5.1	5.1
67.5°	2.6	3.4	3.4	3.4	3.4
70°	2.6	1.7	1.7	1.7	2.6
72.5°	1.7	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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)