

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: P750690

Luminaire Tested: LD4D60D010-EU4DR3055659035-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750690
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: LD4D60D010-EU4DR3055659035-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5296.5 lumens
Efficiency: N/A
Efficacy: 82.2 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): 64.4
Input Voltage (V): NR
Input Current (A_{in}): 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

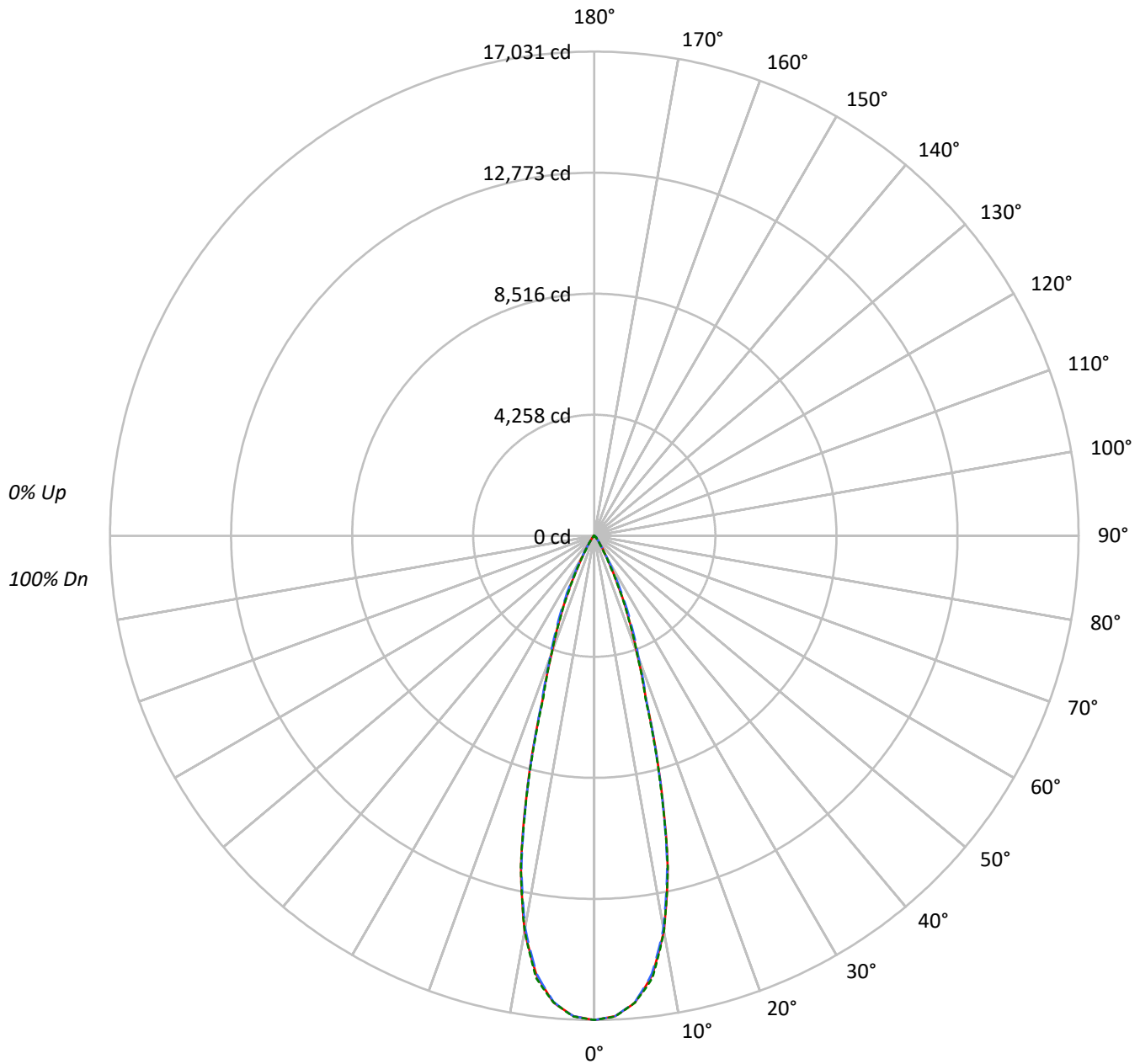


Downlight

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1303595	1303595	1303595
5°	1266169	1264694	1266231
10°	1096696	1088963	1096432
15°	715538	711694	708120
20°	355807	369158	355326
25°	179233	202112	175559
30°	71760	78194	62523
35°	33284	31882	26724
40°	14369	15957	13539
45°	10132	12578	10230
50°	3489	9157	3680
55°	2015	3790	2122
60°	1408	1669	1408
65°	906	906	906
70°	559	380	559
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 12578 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1497.6	28.3
10°-20°	2411.9	45.5
20°-30°	1042.2	19.7
30°-40°	237.6	4.5
40°-50°	81.6	1.5
50°-60°	19.9	0.4
60°-70°	5.2	0.1
70°-80°	0.5	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°	4951.7	93.5
0°-40°	5189.3	98.0
0°-60°	5290.8	99.9
0°-90°	5296.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5296.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17031	17031	17031	17031	17031	
5°	16479	16463	16460	16494	16480	1499
15°	9030	8921	8981	8952	8936	2418
25°	2122	2202	2393	2146	2079	1016
35°	356	364	341	339	286	242
45°	94	116	116	116	94	66
55°	15	16	28	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°	17030.8	17030.8	17030.8	17030.8	17030.8
2.5°	16917.9	16906.2	16912.9	16921.2	16924.6
5°	16478.9	16463.0	16459.7	16494.0	16479.7
7.5°	15593.4	15570.9	15536.6	15614.3	15687.1
10°	14110.1	14085.0	14010.6	14047.4	14106.7
12.5°	11920.2	11839.1	11837.4	11954.5	11938.6
15°	9029.6	8920.9	8981.1	8951.9	8936.0
17.5°	6072.1	6030.3	6110.6	6086.4	5981.8
20°	4368.1	4378.9	4532.0	4455.0	4362.2
22.5°	3187.4	3226.7	3408.2	3210.0	3137.2
25°	2122.2	2202.4	2393.1	2146.4	2078.7
27.5°	1305.2	1342.0	1535.2	1288.5	1251.7
30°	811.9	793.5	884.7	759.2	707.4
32.5°	532.6	509.2	538.5	483.3	441.5
35°	356.2	363.7	341.2	338.6	286.0
37.5°	222.4	255.9	225.8	240.8	184.0
40°	143.8	185.6	159.7	176.4	135.5
42.5°	117.9	143.0	131.3	139.6	120.4
45°	93.6	116.2	116.2	116.2	94.5
47.5°	51.8	77.8	99.5	79.4	55.2
50°	29.3	39.3	76.9	41.0	30.9
52.5°	20.1	22.6	52.7	23.4	20.9
55°	15.1	15.9	28.4	16.7	15.9
57.5°	11.7	12.5	15.1	12.5	11.7
60°	9.2	9.2	10.9	10.0	9.2
62.5°	6.7	6.7	7.5	6.7	6.7
65°	5.0	5.0	5.0	5.0	5.0
67.5°	2.5	3.3	3.3	3.3	3.3
70°	2.5	1.7	1.7	1.7	2.5
72.5°	1.7	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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)