

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: P750703

Luminaire Tested: LD4D60D010-EU4DR3055659040-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750703
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-EU4DR3055659040-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5544.1 lumens
Efficiency: N/A
Efficacy: 86.1 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 (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

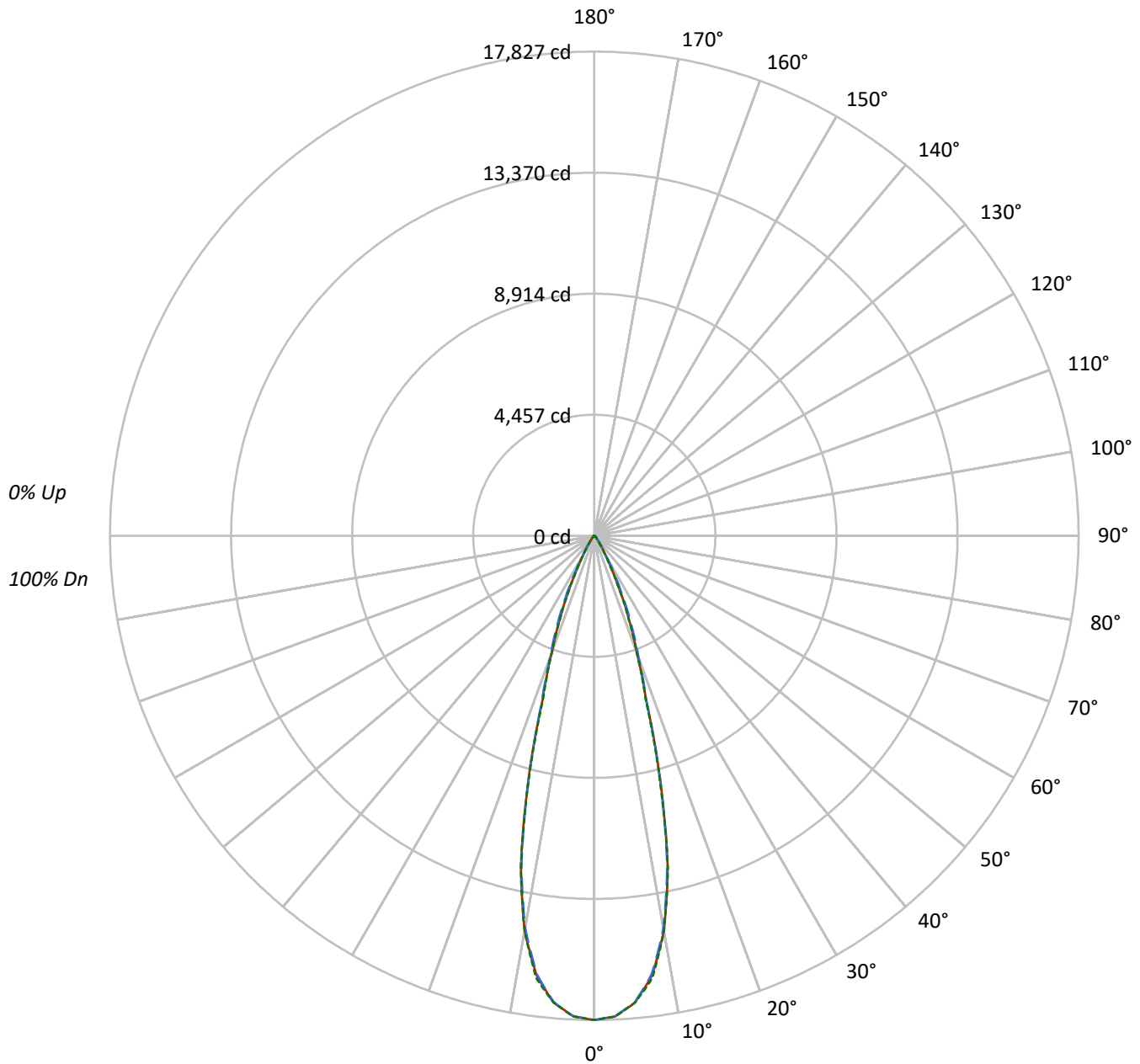


Downlight

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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
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°	1364539	1364539	1364539
5°	1325363	1323819	1325433
10°	1147971	1139872	1147699
15°	748994	744969	741220
20°	372440	386410	371943
25°	187611	211563	183768
30°	75118	81844	65449
35°	34845	33368	27967
40°	15038	16707	14169
45°	10608	13174	10706
50°	3644	9586	3858
55°	2108	3977	2215
60°	1470	1745	1470
65°	960	960	960
70°	582	403	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: 13174 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1567.6	28.3
10°-20°	2524.7	45.5
20°-30°	1091.0	19.7
30°-40°	248.7	4.5
40°-50°	85.4	1.5
50°-60°	20.9	0.4
60°-70°	5.4	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°	5183.3	93.5
0°-40°	5431.9	98.0
0°-60°	5538.1	99.9
0°-90°	5544.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5544.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17827	17827	17827	17827	17827	
5°	17249	17233	17229	17265	17250	1569
15°	9452	9338	9401	9370	9354	2531
25°	2221	2305	2505	2247	2176	1063
35°	373	381	357	354	299	253
45°	98	122	122	122	99	70
55°	16	17	30	18	17	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°	17827.0	17827.0	17827.0	17827.0	17827.0
2.5°	17708.8	17696.6	17703.6	17712.3	17715.8
5°	17249.3	17232.7	17229.2	17265.1	17250.2
7.5°	16322.5	16298.8	16262.9	16344.3	16420.5
10°	14769.8	14743.5	14665.6	14704.1	14766.3
12.5°	12477.5	12392.6	12390.8	12513.4	12496.8
15°	9451.8	9338.0	9401.0	9370.4	9353.7
17.5°	6356.0	6312.3	6396.3	6370.9	6261.5
20°	4572.3	4583.7	4743.8	4663.3	4566.2
22.5°	3336.4	3377.6	3567.5	3360.1	3283.9
25°	2221.4	2305.4	2505.0	2246.8	2175.9
27.5°	1366.3	1404.8	1607.0	1348.8	1310.2
30°	849.9	830.6	926.0	794.7	740.5
32.5°	557.5	533.0	563.7	505.9	462.1
35°	372.9	380.7	357.1	354.5	299.3
37.5°	232.8	267.8	236.3	252.1	192.6
40°	150.5	194.3	167.2	184.7	141.8
42.5°	123.4	149.7	137.4	146.2	126.0
45°	98.0	121.7	121.7	121.7	98.9
47.5°	54.3	81.4	104.2	83.1	57.8
50°	30.6	41.1	80.5	42.9	32.4
52.5°	21.0	23.6	55.1	24.5	21.9
55°	15.8	16.6	29.8	17.5	16.6
57.5°	12.3	13.1	15.8	13.1	12.3
60°	9.6	9.6	11.4	10.5	9.6
62.5°	7.0	7.0	7.9	7.0	7.0
65°	5.3	5.3	5.3	5.3	5.3
67.5°	2.6	3.5	3.5	3.5	3.5
70°	2.6	1.8	1.8	1.8	2.6
72.5°	1.8	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)