

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: P750700

Luminaire Tested: LD4D60D010-EU4DR3055659040-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750700
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-EU4DR3055659040-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5003.6 lumens
Efficiency: N/A
Efficacy: 77.7 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

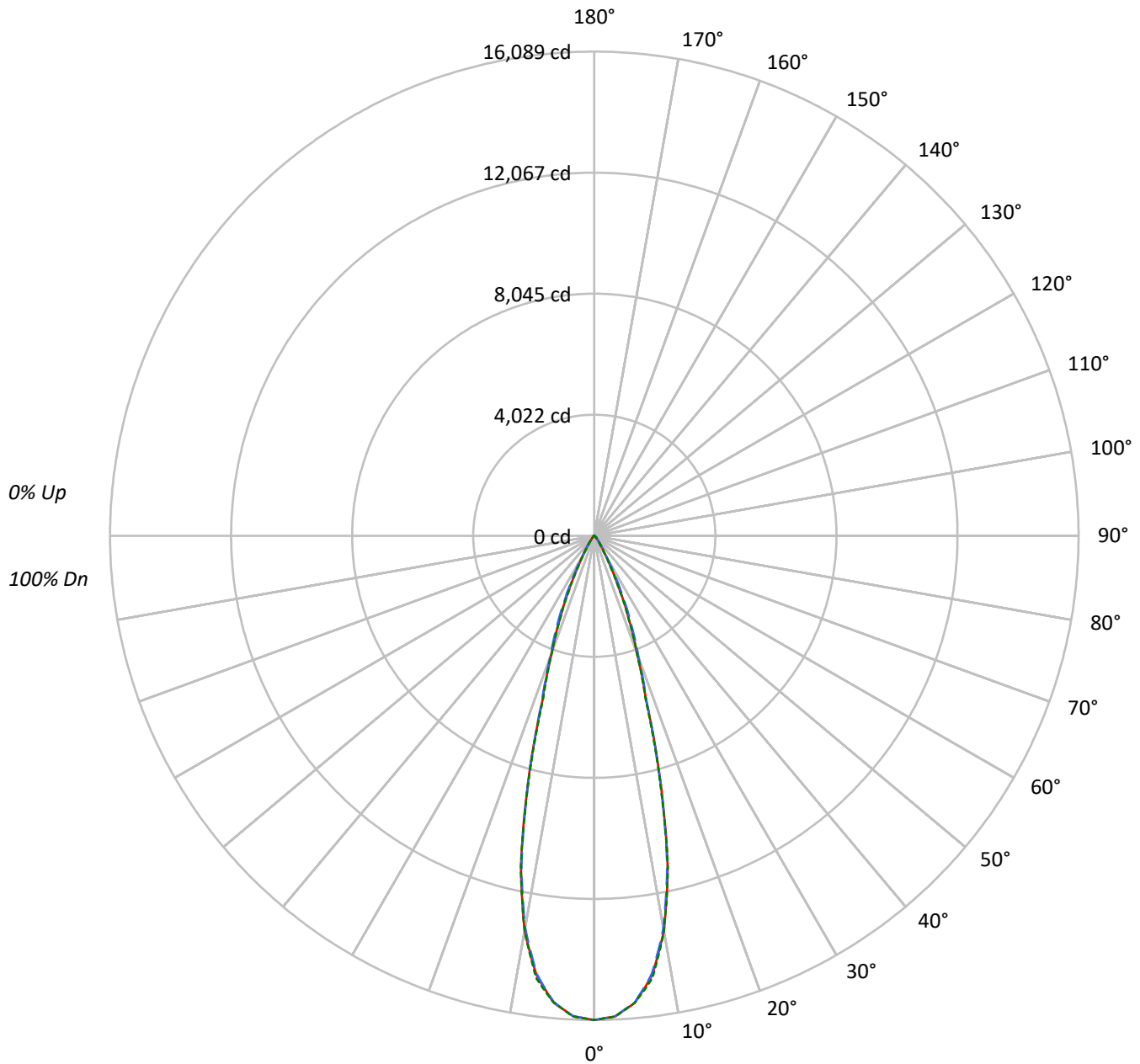


Downlight

TEST NUMBER: P750700

CATALOG NUMBER: LD4D60D010-EU4DR3055659040-4LBDP1B

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°	1231514	1231514	1231514
5°	1196164	1194766	1196226
10°	1036056	1028750	1035815
15°	675979	672342	668966
20°	336127	348745	335679
25°	169318	190939	165847
30°	67791	73863	59067
35°	31443	30116	25248
40°	13579	15078	12790
45°	9580	11886	9667
50°	3287	8657	3477
55°	1895	3590	2002
60°	1332	1577	1332
65°	851	851	851
70°	537	358	537
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 11886 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1414.8	28.3
10°-20°	2278.5	45.5
20°-30°	984.6	19.7
30°-40°	224.4	4.5
40°-50°	77.1	1.5
50°-60°	18.8	0.4
60°-70°	4.9	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°	4677.9	93.5
0°-40°	4902.4	98.0
0°-60°	4998.2	99.9
0°-90°	5003.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5003.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16089	16089	16089	16089	16089	
5°	15568	15553	15550	15582	15569	1416
15°	8530	8428	8484	8457	8442	2284
25°	2005	2081	2261	2028	1964	960
35°	336	344	322	320	270	228
45°	88	110	110	110	89	63
55°	14	15	27	16	15	14
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°	16089.1	16089.1	16089.1	16089.1	16089.1
2.5°	15982.5	15971.4	15977.7	15985.6	15988.8
5°	15567.8	15552.8	15549.6	15582.0	15568.6
7.5°	14731.2	14709.9	14677.5	14751.0	14819.7
10°	13329.9	13306.2	13235.9	13270.7	13326.8
12.5°	11261.1	11184.5	11182.9	11293.5	11278.5
15°	8530.4	8427.7	8484.5	8456.9	8441.9
17.5°	5736.4	5696.9	5772.7	5749.8	5651.1
20°	4126.5	4136.8	4281.4	4208.7	4121.0
22.5°	3011.2	3048.3	3219.7	3032.5	2963.8
25°	2004.8	2080.7	2260.8	2027.7	1963.7
27.5°	1233.1	1267.8	1450.3	1217.3	1182.5
30°	767.0	749.6	835.7	717.2	668.3
32.5°	503.2	481.1	508.7	456.6	417.1
35°	336.5	343.6	322.3	319.9	270.2
37.5°	210.1	241.7	213.3	227.5	173.8
40°	135.9	175.4	150.9	166.7	128.0
42.5°	111.4	135.1	124.0	131.9	113.7
45°	88.5	109.8	109.8	109.8	89.3
47.5°	49.0	73.5	94.0	75.0	52.1
50°	27.6	37.1	72.7	38.7	29.2
52.5°	19.0	21.3	49.8	22.1	19.7
55°	14.2	15.0	26.9	15.8	15.0
57.5°	11.1	11.8	14.2	11.8	11.1
60°	8.7	8.7	10.3	9.5	8.7
62.5°	6.3	6.3	7.1	6.3	6.3
65°	4.7	4.7	4.7	4.7	4.7
67.5°	2.4	3.2	3.2	3.2	3.2
70°	2.4	1.6	1.6	1.6	2.4
72.5°	1.6	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)