

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: P743123

Luminaire Tested: LD4D15D010-EU4DR300215IC9027-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P743123
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: LD4D15D010-EU4DR300215IC9027-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1253.4 lumens
Efficiency: N/A
Efficacy: 79.3 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): 15.8
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

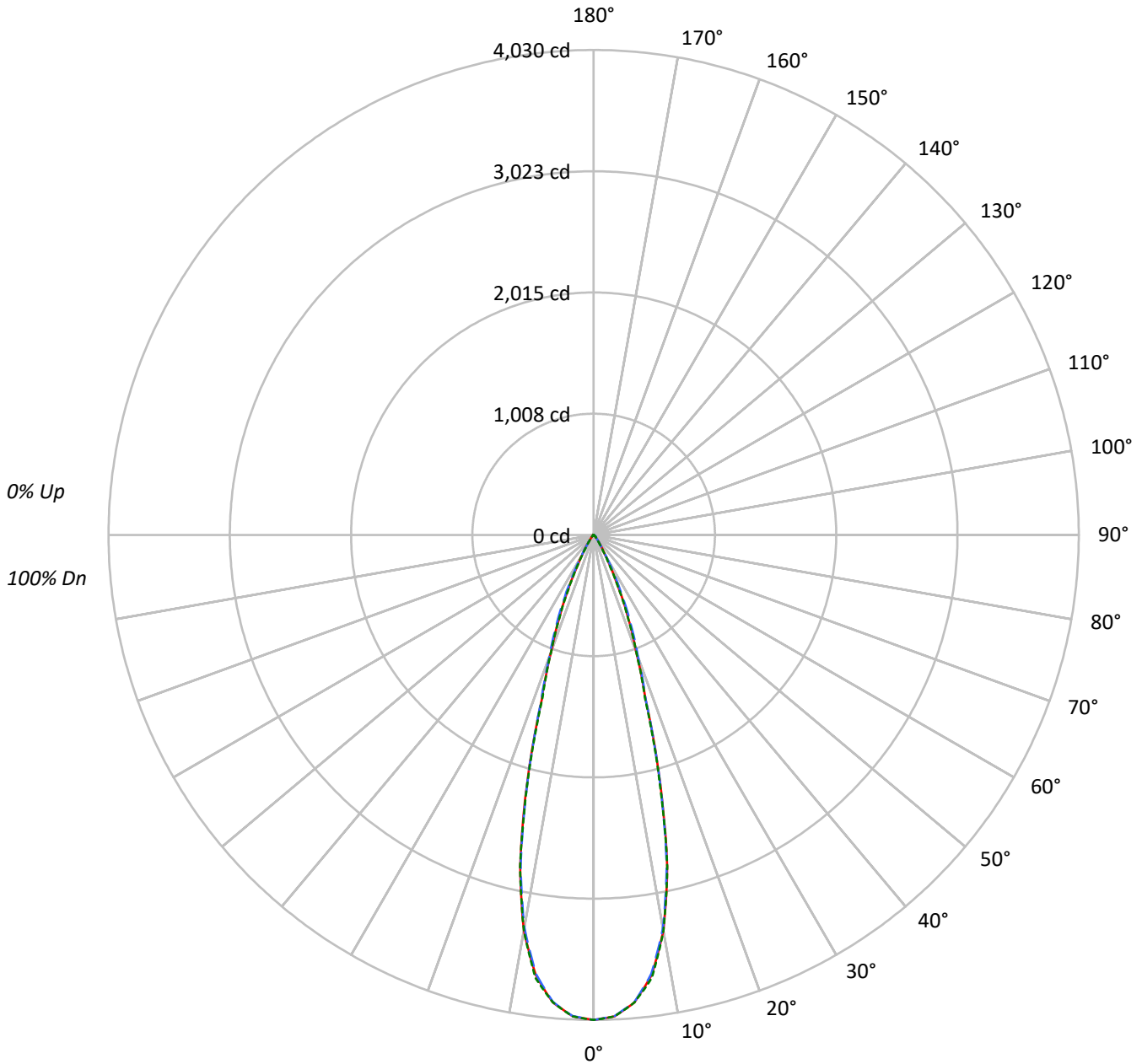


Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	308493	308493	308493
5°	299636	299283	299644
10°	259529	257702	259467
15°	169328	168424	167568
20°	84201	87353	84087
25°	42414	47828	41544
30°	16979	18508	14796
35°	7877	7541	6326
40°	3397	3777	3197
45°	2403	2977	2414
50°	822	2167	869
55°	480	894	507
60°	337	398	337
65°	217	217	217
70°	134	90	134
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 2977 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.4	28.3
10°-20°	570.8	45.5
20°-30°	246.6	19.7
30°-40°	56.2	4.5
40°-50°	19.3	1.5
50°-60°	4.7	0.4
60°-70°	1.2	0.1
70°-80°	0.1	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°	1171.8	93.5
0°-40°	1228.0	98.0
0°-60°	1252.1	99.9
0°-90°	1253.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1253.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4030	4030	4030	4030	4030	
5°	3900	3896	3895	3903	3900	355
15°	2137	2111	2125	2118	2115	572
25°	502	521	566	508	492	240
35°	84	86	81	80	68	57
45°	22	28	28	28	22	16
55°	4	4	7	4	4	3
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
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°	4030.3	4030.3	4030.3	4030.3	4030.3
2.5°	4003.6	4000.8	4002.3	4004.4	4005.2
5°	3899.7	3895.9	3895.1	3903.2	3899.8
7.5°	3690.1	3684.8	3676.7	3695.1	3712.3
10°	3339.1	3333.1	3315.6	3324.3	3338.3
12.5°	2820.9	2801.7	2801.3	2829.0	2825.2
15°	2136.8	2111.1	2125.4	2118.4	2114.6
17.5°	1437.0	1427.0	1446.1	1440.3	1415.6
20°	1033.7	1036.2	1072.4	1054.3	1032.3
22.5°	754.3	763.6	806.5	759.6	742.4
25°	502.2	521.2	566.3	507.9	491.9
27.5°	308.9	317.6	363.3	304.9	296.2
30°	192.1	187.8	209.4	179.7	167.4
32.5°	126.0	120.5	127.4	114.4	104.4
35°	84.3	86.1	80.7	80.2	67.7
37.5°	52.7	60.6	53.4	57.0	43.5
40°	34.0	43.9	37.8	41.8	32.0
42.5°	27.9	33.9	31.1	33.1	28.5
45°	22.2	27.5	27.5	27.5	22.3
47.5°	12.3	18.4	23.5	18.8	13.1
50°	6.9	9.3	18.2	9.7	7.3
52.5°	4.8	5.3	12.5	5.6	4.9
55°	3.6	3.8	6.7	4.0	3.8
57.5°	2.8	3.0	3.6	3.0	2.8
60°	2.2	2.2	2.6	2.3	2.2
62.5°	1.6	1.6	1.8	1.6	1.6
65°	1.2	1.2	1.2	1.2	1.2
67.5°	0.6	0.8	0.8	0.8	0.8
70°	0.6	0.4	0.4	0.4	0.6
72.5°	0.4	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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