

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: P743121

Luminaire Tested: LD4D15D010-EU4DR300215IC9027-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P743121
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-EU4DR300215IC9027-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1333.5 lumens
Efficiency: N/A
Efficacy: 84.4 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



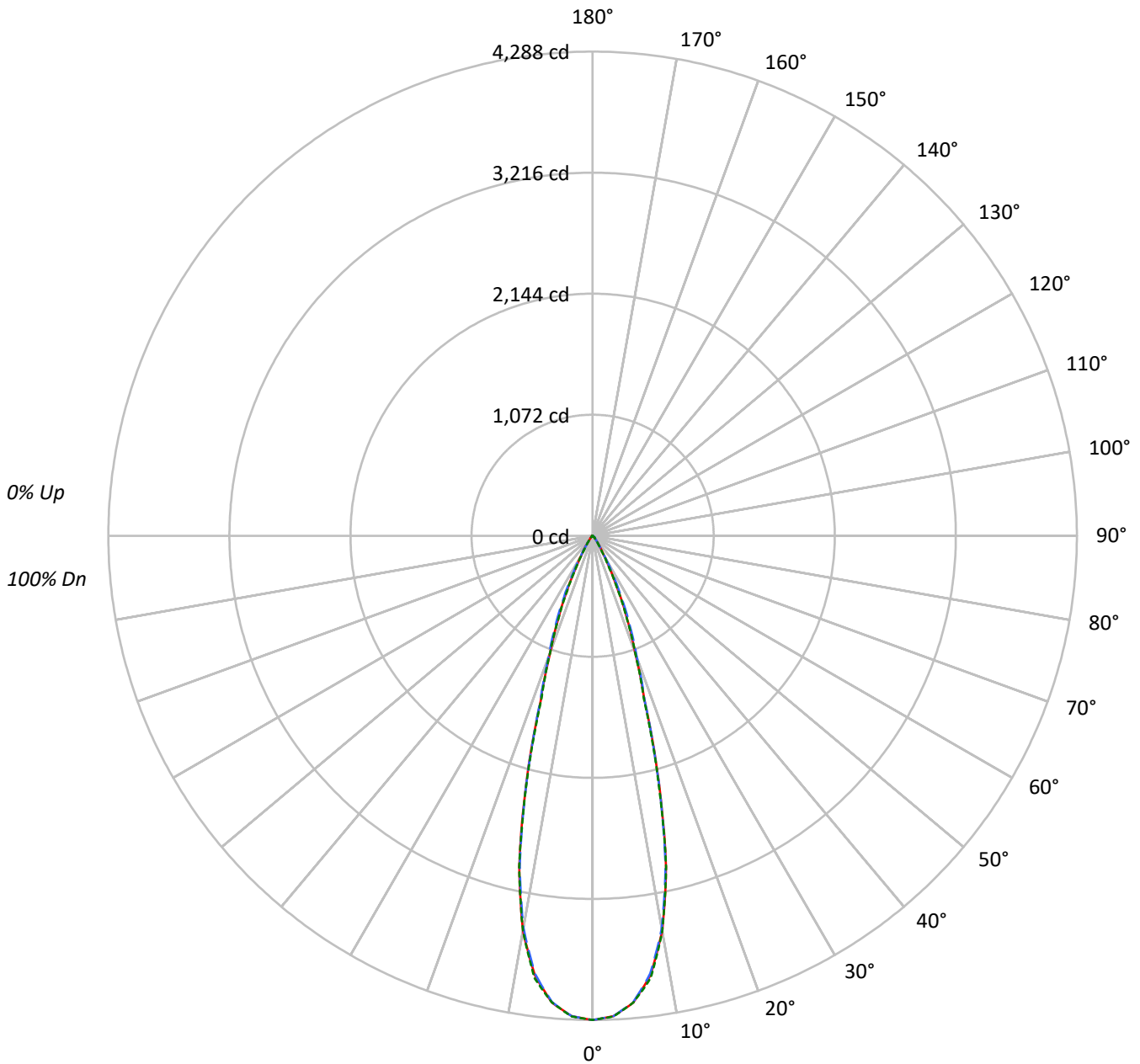
Downlight



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	328203	328203	328203
5°	318784	318407	318799
10°	276115	274164	276053
15°	180152	179186	178282
20°	89577	92941	89463
25°	45125	50885	44196
30°	18066	19683	15741
35°	8382	8027	6728
40°	3617	4017	3407
45°	2555	3172	2576
50°	881	2310	929
55°	507	961	534
60°	352	429	352
65°	235	235	235
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: 3172 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.0	28.3
10°-20°	607.2	45.5
20°-30°	262.4	19.7
30°-40°	59.8	4.5
40°-50°	20.5	1.5
50°-60°	5.0	0.4
60°-70°	1.3	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°	1246.7	93.5
0°-40°	1306.5	98.0
0°-60°	1332.1	99.9
0°-90°	1333.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1333.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4288	4288	4288	4288	4288	
5°	4149	4145	4144	4153	4149	377
15°	2273	2246	2261	2254	2250	609
25°	534	554	602	540	523	256
35°	90	92	86	85	72	61
45°	24	29	29	29	24	17
55°	4	4	7	4	4	4
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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4287.8	4287.8	4287.8	4287.8	4287.8
2.5°	4259.4	4256.5	4258.2	4260.3	4261.1
5°	4148.9	4144.9	4144.0	4152.7	4149.1
7.5°	3926.0	3920.3	3911.6	3931.2	3949.5
10°	3552.5	3546.2	3527.4	3536.7	3551.7
12.5°	3001.2	2980.7	2980.3	3009.8	3005.8
15°	2273.4	2246.0	2261.2	2253.8	2249.8
17.5°	1528.8	1518.3	1538.5	1532.4	1506.1
20°	1099.7	1102.5	1141.0	1121.7	1098.3
22.5°	802.5	812.4	858.1	808.2	789.9
25°	534.3	554.5	602.5	540.4	523.3
27.5°	328.6	337.9	386.5	324.4	315.1
30°	204.4	199.8	222.7	191.1	178.1
32.5°	134.1	128.2	135.6	121.7	111.2
35°	89.7	91.6	85.9	85.3	72.0
37.5°	56.0	64.4	56.8	60.6	46.3
40°	36.2	46.8	40.2	44.4	34.1
42.5°	29.7	36.0	33.1	35.2	30.3
45°	23.6	29.3	29.3	29.3	23.8
47.5°	13.1	19.6	25.0	20.0	13.9
50°	7.4	9.9	19.4	10.3	7.8
52.5°	5.0	5.7	13.2	5.9	5.3
55°	3.8	4.0	7.2	4.2	4.0
57.5°	2.9	3.2	3.8	3.2	2.9
60°	2.3	2.3	2.8	2.5	2.3
62.5°	1.7	1.7	1.9	1.7	1.7
65°	1.3	1.3	1.3	1.3	1.3
67.5°	0.6	0.9	0.9	0.9	0.9
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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