

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: P741099

Luminaire Tested: LD4D08D010-EU4DR300210IC9027-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P741099
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: LD4D08D010-EU4DR300210IC9027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 569.2 lumens
Efficiency: N/A
Efficacy: 64.0 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): 8.9
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



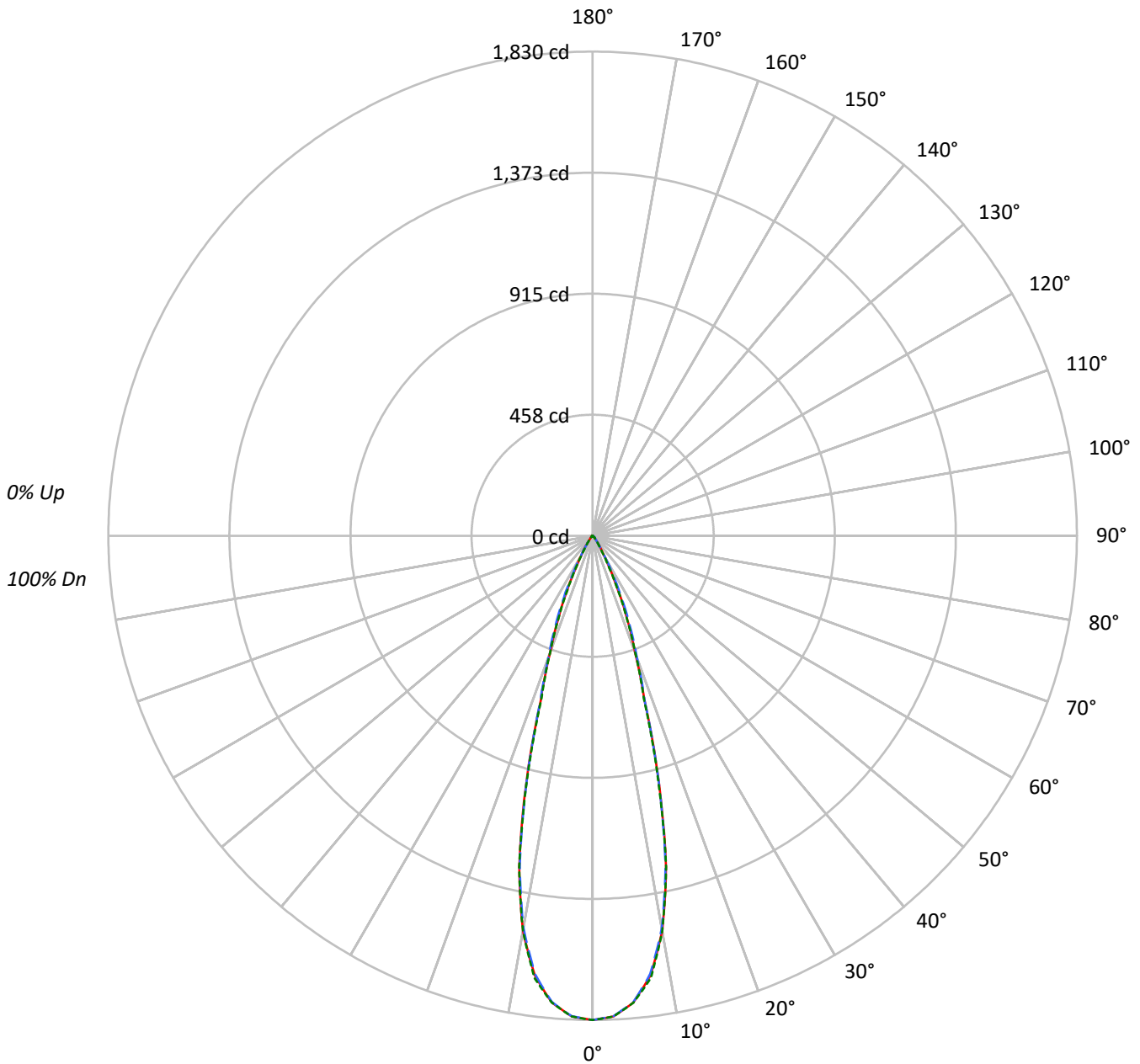
Downlight



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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	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°	140090	140090	140090
5°	136068	135907	136076
10°	117853	117022	117830
15°	76890	76478	76098
20°	38235	39669	38186
25°	19256	21714	18868
30°	7716	8405	6717
35°	3579	3429	2869
40°	1549	1719	1459
45°	1093	1353	1093
50°	381	988	393
55°	214	400	227
60°	153	168	153
65°	91	91	91
70°	67	45	67
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 1353 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.9	28.3
10°-20°	259.2	45.5
20°-30°	112.0	19.7
30°-40°	25.5	4.5
40°-50°	8.8	1.5
50°-60°	2.1	0.4
60°-70°	0.5	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°	532.1	93.5
0°-40°	557.7	98.0
0°-60°	568.6	99.9
0°-90°	569.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	569.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1830	1830	1830	1830	1830	
5°	1771	1769	1769	1772	1771	161
15°	970	959	965	962	960	260
25°	228	237	257	231	223	109
35°	38	39	37	36	31	26
45°	10	12	12	12	10	7
55°	2	2	3	2	2	2
65°	0	0	0	0	0	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°	1830.2	1830.2	1830.2	1830.2	1830.2
2.5°	1818.0	1816.8	1817.5	1818.4	1818.8
5°	1770.9	1769.2	1768.8	1772.5	1771.0
7.5°	1675.7	1673.3	1669.6	1677.9	1685.8
10°	1516.3	1513.6	1505.6	1509.6	1516.0
12.5°	1281.0	1272.3	1272.1	1284.7	1283.0
15°	970.3	958.7	965.1	962.0	960.3
17.5°	652.5	648.1	656.7	654.1	642.9
20°	469.4	470.6	487.0	478.8	468.8
22.5°	342.5	346.7	366.2	345.0	337.1
25°	228.0	236.7	257.1	230.7	223.4
27.5°	140.3	144.2	165.0	138.5	134.5
30°	87.3	85.3	95.1	81.6	76.0
32.5°	57.2	54.7	57.9	51.9	47.4
35°	38.3	39.1	36.7	36.4	30.7
37.5°	23.9	27.5	24.2	25.9	19.8
40°	15.5	19.9	17.2	19.0	14.6
42.5°	12.7	15.4	14.1	15.0	12.9
45°	10.1	12.5	12.5	12.5	10.1
47.5°	5.6	8.4	10.7	8.5	6.0
50°	3.2	4.2	8.3	4.4	3.3
52.5°	2.2	2.4	5.7	2.5	2.2
55°	1.6	1.7	3.0	1.8	1.7
57.5°	1.3	1.4	1.6	1.4	1.3
60°	1.0	1.0	1.1	1.1	1.0
62.5°	0.7	0.7	0.8	0.7	0.7
65°	0.5	0.5	0.5	0.5	0.5
67.5°	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.2	0.2	0.2	0.3
72.5°	0.2	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	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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