

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: P749114

Luminaire Tested: LD4D50D010-EU4DR3040509030-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749114
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: LD4D50D010-EU4DR3040509030-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3804.8 lumens
Efficiency: N/A
Efficacy: 81.0 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): 47
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

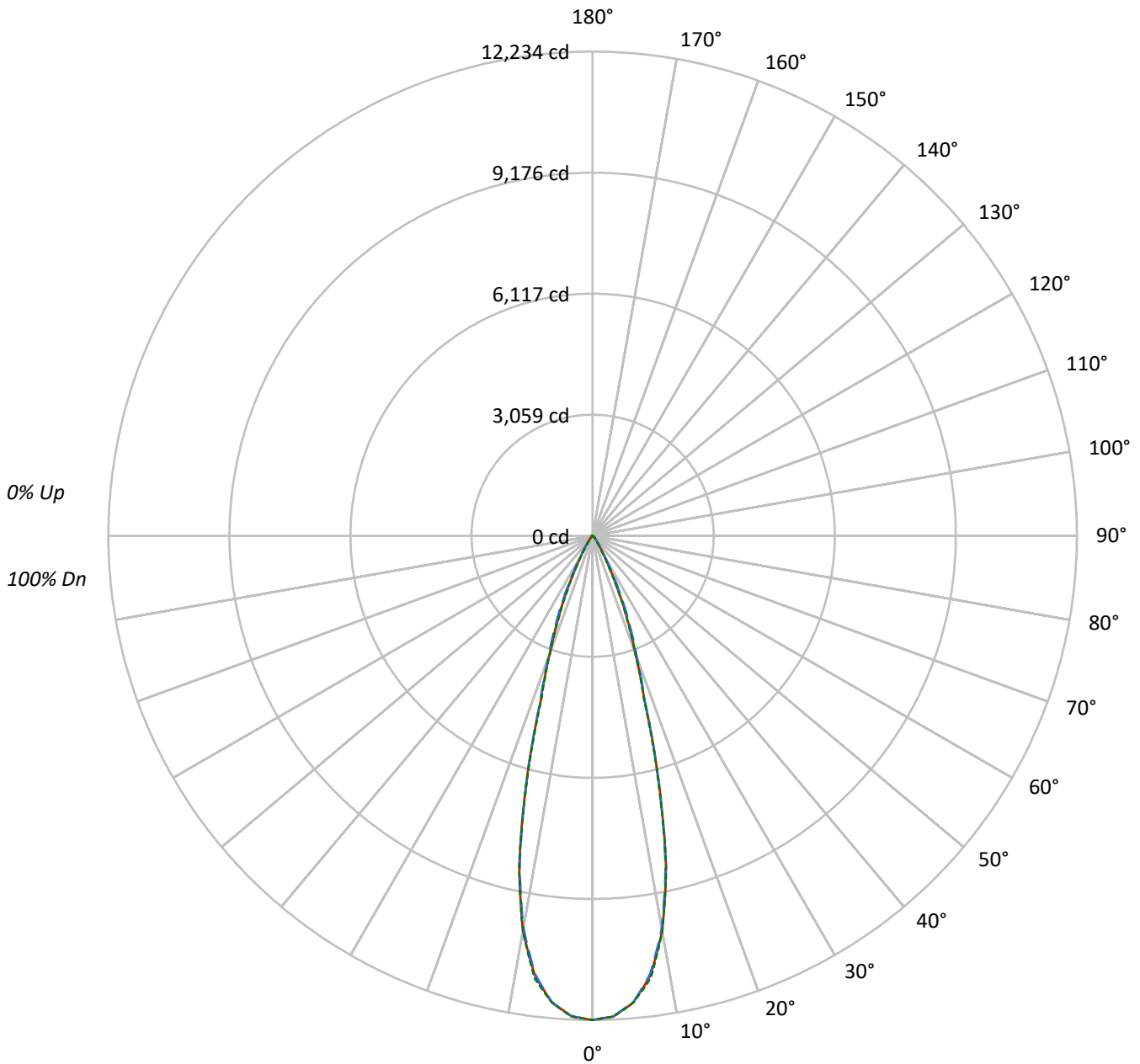


Downlight

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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°	936455	936455	936455
5°	909567	908506	909613
10°	787820	782271	787634
15°	514013	511256	508688
20°	255600	265187	255250
25°	128754	145189	126110
30°	51546	56168	44917
35°	23912	22903	19193
40°	10322	11461	9722
45°	7285	9039	7350
50°	2501	6585	2644
55°	1441	2722	1521
60°	1010	1194	1010
65°	652	652	652
70°	403	269	403
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 9039 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1075.8	28.3
10°-20°	1732.6	45.5
20°-30°	748.7	19.7
30°-40°	170.6	4.5
40°-50°	58.6	1.5
50°-60°	14.3	0.4
60°-70°	3.7	0.1
70°-80°	0.4	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°	3557.1	93.5
0°-40°	3727.8	98.0
0°-60°	3800.7	99.9
0°-90°	3804.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3804.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12234	12234	12234	12234	12234	
5°	11838	11826	11824	11849	11838	1077
15°	6486	6408	6452	6431	6419	1737
25°	1524	1582	1719	1542	1493	730
35°	256	261	245	243	205	174
45°	67	84	84	84	68	48
55°	11	11	20	12	11	11
65°	4	4	4	4	4	4
75°	0	0	1	0	0	1
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°	12234.3	12234.3	12234.3	12234.3	12234.3
2.5°	12153.2	12144.8	12149.6	12155.6	12158.0
5°	11837.8	11826.4	11824.0	11848.6	11838.4
7.5°	11201.7	11185.5	11160.9	11216.7	11269.0
10°	10136.1	10118.1	10064.7	10091.1	10133.7
12.5°	8563.0	8504.8	8503.6	8587.6	8576.2
15°	6486.5	6408.4	6451.7	6430.7	6419.3
17.5°	4362.0	4332.0	4389.6	4372.2	4297.1
20°	3137.9	3145.7	3255.6	3200.3	3133.6
22.5°	2289.7	2317.9	2448.3	2305.9	2253.7
25°	1524.5	1582.1	1719.1	1541.9	1493.2
27.5°	937.6	964.1	1102.8	925.6	899.2
30°	583.2	570.0	635.5	545.4	508.2
32.5°	382.6	365.8	386.8	347.2	317.1
35°	255.9	261.3	245.1	243.3	205.4
37.5°	159.8	183.8	162.2	173.0	132.1
40°	103.3	133.3	114.7	126.7	97.3
42.5°	84.7	102.7	94.3	100.3	86.5
45°	67.3	83.5	83.5	83.5	67.9
47.5°	37.2	55.9	71.5	57.1	39.6
50°	21.0	28.2	55.3	29.4	22.2
52.5°	14.4	16.2	37.8	16.8	15.0
55°	10.8	11.4	20.4	12.0	11.4
57.5°	8.4	9.0	10.8	9.0	8.4
60°	6.6	6.6	7.8	7.2	6.6
62.5°	4.8	4.8	5.4	4.8	4.8
65°	3.6	3.6	3.6	3.6	3.6
67.5°	1.8	2.4	2.4	2.4	2.4
70°	1.8	1.2	1.2	1.2	1.8
72.5°	1.2	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	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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