

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: P748322

Luminaire Tested: LD4D45BD010-EU4DR3040509027-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748322
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: LD4D45BD010-EU4DR3040509027-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-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: 3906.0 lumens
Efficiency: N/A
Efficacy: 100.9 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): 38.7
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

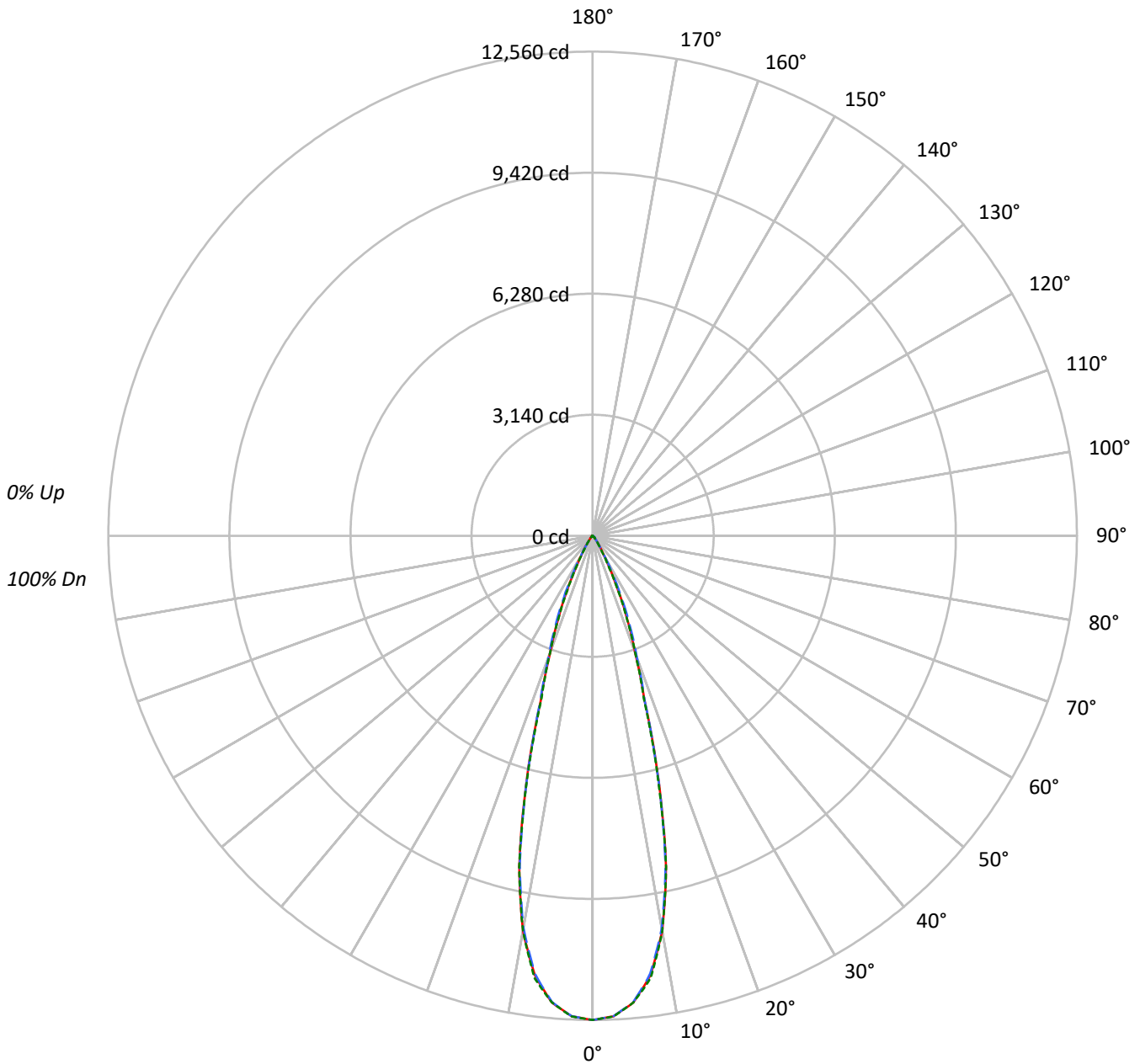


Downlight

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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°	961370	961370	961370
5°	933770	932679	933816
10°	808790	803085	808596
15°	527691	524862	522223
20°	262394	272242	262043
25°	132174	149048	129471
30°	52925	57662	46110
35°	24547	23510	19707
40°	10602	11771	9982
45°	7480	9277	7545
50°	2572	6752	2715
55°	1481	2802	1561
60°	1041	1225	1041
65°	670	670	670
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: 9277 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1104.4	28.3
10°-20°	1778.7	45.5
20°-30°	768.6	19.7
30°-40°	175.2	4.5
40°-50°	60.1	1.5
50°-60°	14.7	0.4
60°-70°	3.8	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°	3651.8	93.5
0°-40°	3827.0	98.0
0°-60°	3901.8	99.9
0°-90°	3906.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3906.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12560	12560	12560	12560	12560	
5°	12153	12141	12139	12164	12153	1105
15°	6659	6579	6623	6602	6590	1783
25°	1565	1624	1765	1583	1533	749
35°	263	268	252	250	211	178
45°	69	86	86	86	70	49
55°	11	12	21	12	12	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°	12559.8	12559.8	12559.8	12559.8	12559.8
2.5°	12476.6	12467.9	12472.9	12479.0	12481.5
5°	12152.8	12141.1	12138.6	12163.9	12153.4
7.5°	11499.8	11483.1	11457.9	11515.2	11568.9
10°	10405.9	10387.4	10332.5	10359.6	10403.4
12.5°	8790.9	8731.1	8729.8	8816.2	8804.4
15°	6659.1	6579.0	6623.4	6601.8	6590.1
17.5°	4478.1	4447.2	4506.4	4488.6	4411.5
20°	3221.3	3229.4	3342.2	3285.5	3217.0
22.5°	2350.6	2379.6	2513.4	2367.3	2313.6
25°	1565.0	1624.2	1764.8	1582.9	1533.0
27.5°	962.6	989.7	1132.2	950.2	923.1
30°	598.8	585.2	652.4	559.9	521.7
32.5°	392.8	375.5	397.1	356.4	325.6
35°	262.7	268.2	251.6	249.7	210.9
37.5°	164.0	188.7	166.5	177.6	135.7
40°	106.1	136.9	117.8	130.1	99.9
42.5°	86.9	105.4	96.8	103.0	88.8
45°	69.1	85.7	85.7	85.7	69.7
47.5°	38.2	57.3	73.4	58.6	40.7
50°	21.6	29.0	56.7	30.2	22.8
52.5°	14.8	16.6	38.8	17.3	15.4
55°	11.1	11.7	21.0	12.3	11.7
57.5°	8.6	9.2	11.1	9.2	8.6
60°	6.8	6.8	8.0	7.4	6.8
62.5°	4.9	4.9	5.5	4.9	4.9
65°	3.7	3.7	3.7	3.7	3.7
67.5°	1.8	2.5	2.5	2.5	2.5
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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