

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: P748334

Luminaire Tested: LD4D45BD010-EU4DR3040509030-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748334
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-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: 3239.7 lumens
Efficiency: N/A
Efficacy: 83.7 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

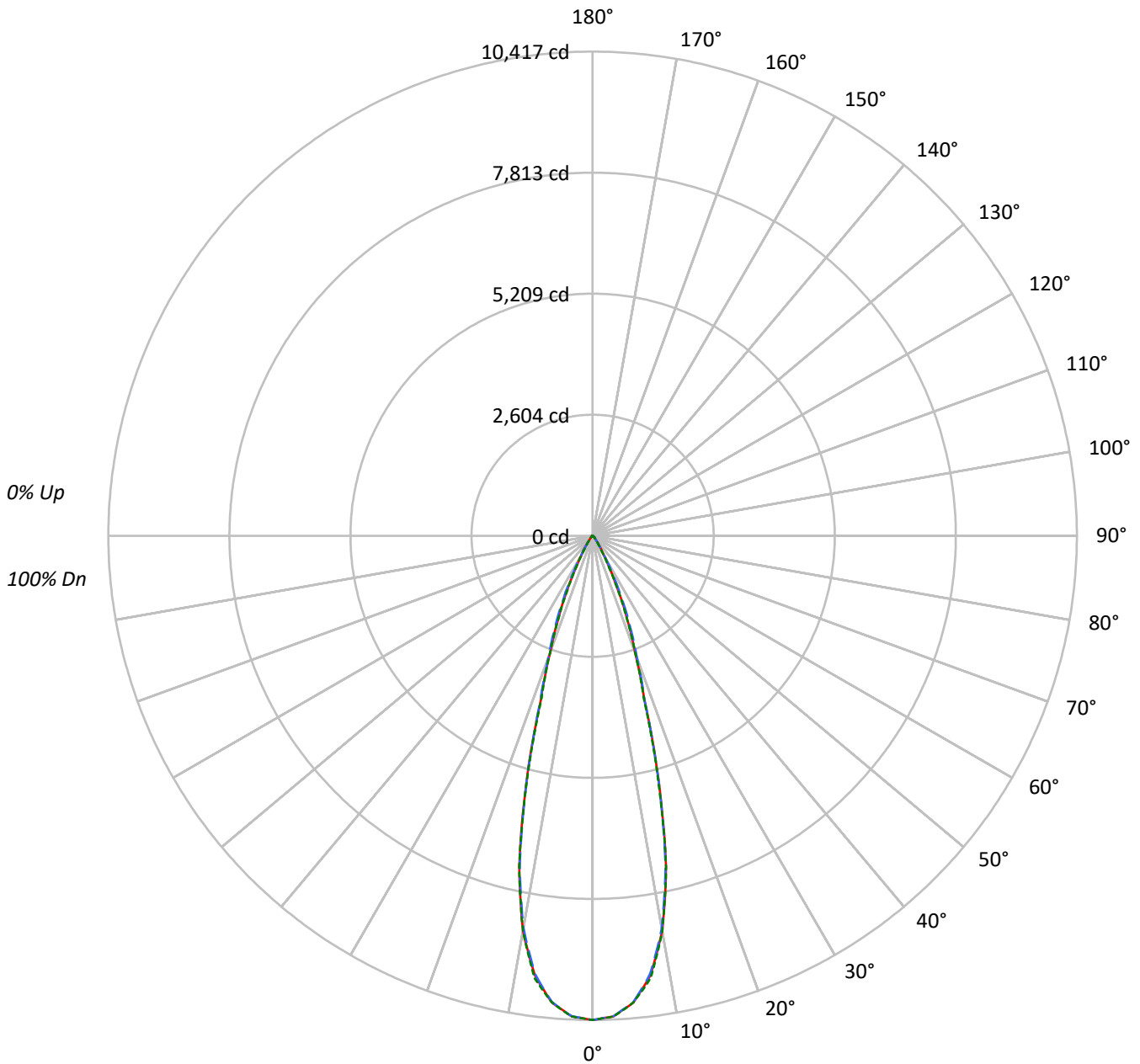


Downlight

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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	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°	797383	797383	797383
5°	774489	773590	774528
10°	670830	666096	670667
15°	437678	435332	433145
20°	217642	225804	217348
25°	109633	123627	107386
30°	43892	47825	38244
35°	20361	19501	16343
40°	8793	9762	8283
45°	6203	7696	6257
50°	2132	5609	2251
55°	1228	2322	1294
60°	857	1010	857
65°	561	561	561
70°	336	224	336
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 7696 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	916.1	28.3
10°-20°	1475.3	45.5
20°-30°	637.5	19.7
30°-40°	145.3	4.5
40°-50°	49.9	1.5
50°-60°	12.2	0.4
60°-70°	3.1	0.1
70°-80°	0.3	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°	3028.9	93.5
0°-40°	3174.2	98.0
0°-60°	3236.3	99.9
0°-90°	3239.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3239.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10417	10417	10417	10417	10417	
5°	10080	10070	10068	10089	10080	917
15°	5523	5457	5494	5476	5466	1479
25°	1298	1347	1464	1313	1272	621
35°	218	222	209	207	175	148
45°	57	71	71	71	58	41
55°	9	10	17	10	10	9
65°	3	3	3	3	3	3
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°	10417.4	10417.4	10417.4	10417.4	10417.4
2.5°	10348.3	10341.2	10345.3	10350.4	10352.4
5°	10079.8	10070.1	10068.1	10089.0	10080.3
7.5°	9538.2	9524.4	9503.4	9551.0	9595.5
10°	8630.9	8615.5	8570.0	8592.5	8628.8
12.5°	7291.4	7241.7	7240.7	7312.3	7302.6
15°	5523.2	5456.8	5493.6	5475.7	5466.0
17.5°	3714.2	3688.6	3737.7	3722.9	3659.0
20°	2671.9	2678.5	2772.1	2725.1	2668.3
22.5°	1949.7	1973.7	2084.7	1963.5	1919.0
25°	1298.1	1347.2	1463.8	1312.9	1271.5
27.5°	798.4	820.9	939.0	788.2	765.7
30°	496.6	485.4	541.1	464.4	432.7
32.5°	325.8	311.5	329.4	295.6	270.1
35°	217.9	222.5	208.7	207.1	174.9
37.5°	136.0	156.5	138.1	147.3	112.5
40°	88.0	113.5	97.7	107.9	82.9
42.5°	72.1	87.5	80.3	85.4	73.7
45°	57.3	71.1	71.1	71.1	57.8
47.5°	31.7	47.6	60.9	48.6	33.8
50°	17.9	24.0	47.1	25.1	18.9
52.5°	12.3	13.8	32.2	14.3	12.8
55°	9.2	9.7	17.4	10.2	9.7
57.5°	7.2	7.7	9.2	7.7	7.2
60°	5.6	5.6	6.6	6.1	5.6
62.5°	4.1	4.1	4.6	4.1	4.1
65°	3.1	3.1	3.1	3.1	3.1
67.5°	1.5	2.0	2.0	2.0	2.0
70°	1.5	1.0	1.0	1.0	1.5
72.5°	1.0	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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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