

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: P748323

Luminaire Tested: LD4D45BD010-EU4DR3040509027-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748323
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-EU4DR3040509027-4LBDP1LI
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: 4101.3 lumens
Efficiency: N/A
Efficacy: 106.0 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

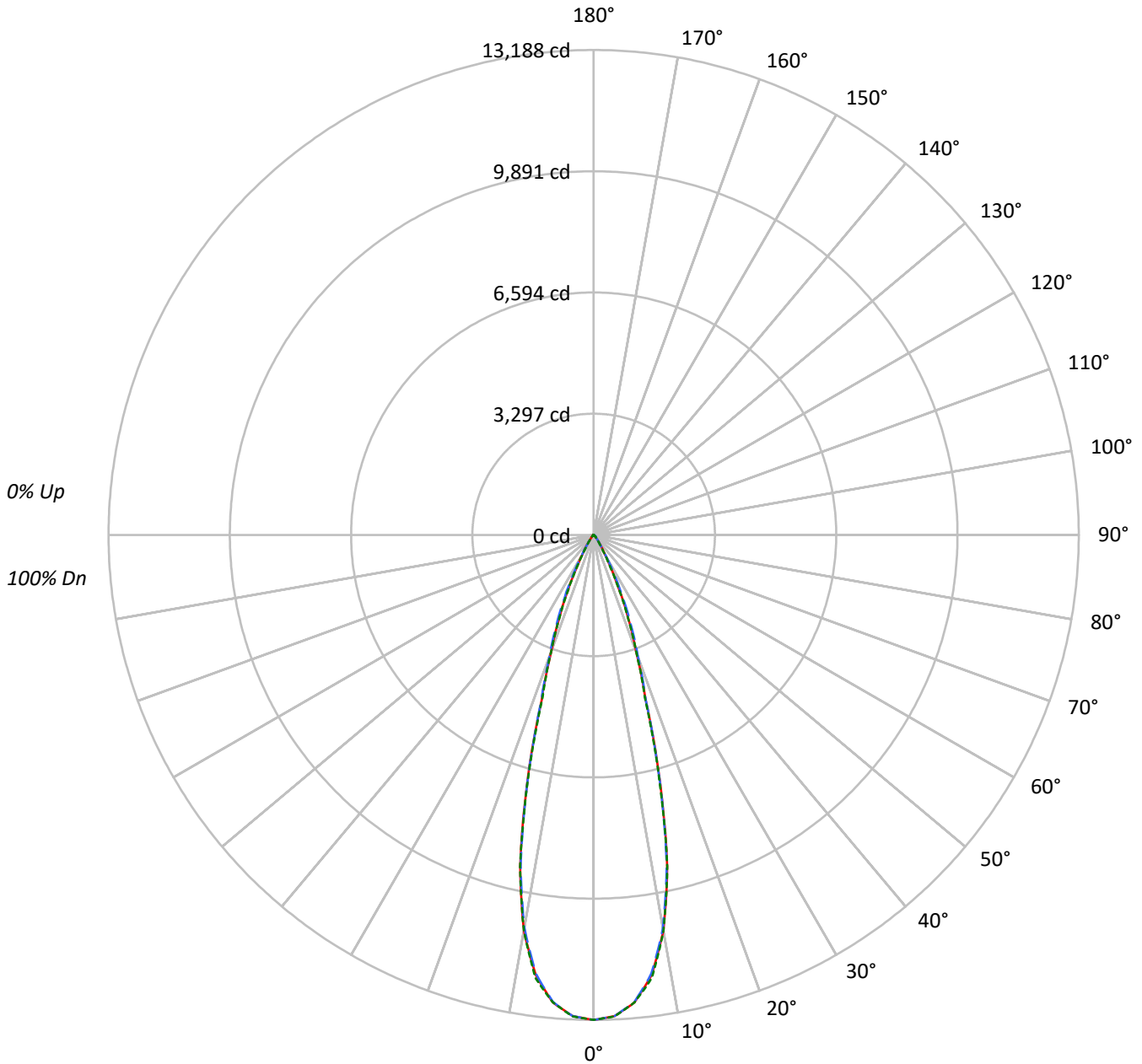
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1009439	1009439	1009439
5°	980463	979318	980509
10°	849230	843238	849028
15°	554079	551099	548334
20°	275516	285853	275149
25°	138787	156506	135941
30°	55567	60544	48417
35°	25771	24687	20688
40°	11131	12360	10482
45°	7848	9742	7924
50°	2703	7097	2858
55°	1561	2936	1641
60°	1087	1286	1087
65°	706	706	706
70°	425	291	425
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 9742 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1159.7	28.3
10°-20°	1867.7	45.5
20°-30°	807.1	19.7
30°-40°	183.9	4.5
40°-50°	63.2	1.5
50°-60°	15.4	0.4
60°-70°	4.0	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°	3834.4	93.5
0°-40°	4018.3	98.0
0°-60°	4096.9	99.9
0°-90°	4101.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4101.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13188	13188	13188	13188	13188	
5°	12760	12748	12746	12772	12761	1161
15°	6992	6908	6954	6932	6920	1872
25°	1643	1706	1853	1662	1610	787
35°	276	282	264	262	221	187
45°	72	90	90	90	73	51
55°	12	12	22	13	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13187.8	13187.8	13187.8	13187.8	13187.8
2.5°	13100.4	13091.3	13096.5	13103.0	13105.6
5°	12760.5	12748.2	12745.6	12772.1	12761.1
7.5°	12074.8	12057.3	12030.8	12091.0	12147.3
10°	10926.2	10906.7	10849.1	10877.6	10923.6
12.5°	9230.4	9167.6	9166.3	9257.0	9244.7
15°	6992.1	6907.9	6954.5	6931.9	6919.6
17.5°	4702.0	4669.6	4731.8	4713.0	4632.0
20°	3382.4	3390.8	3509.3	3449.8	3377.9
22.5°	2468.2	2498.6	2639.1	2485.7	2429.3
25°	1643.3	1705.5	1853.1	1662.1	1609.6
27.5°	1010.7	1039.2	1188.8	997.8	969.3
30°	628.7	614.5	685.0	587.9	547.8
32.5°	412.4	394.3	417.0	374.2	341.9
35°	275.8	281.7	264.2	262.2	221.4
37.5°	172.2	198.1	174.8	186.5	142.4
40°	111.4	143.7	123.7	136.6	104.9
42.5°	91.3	110.7	101.7	108.1	93.2
45°	72.5	90.0	90.0	90.0	73.2
47.5°	40.1	60.2	77.0	61.5	42.7
50°	22.7	30.4	59.6	31.7	24.0
52.5°	15.5	17.5	40.8	18.1	16.2
55°	11.7	12.3	22.0	12.9	12.3
57.5°	9.1	9.7	11.7	9.7	9.1
60°	7.1	7.1	8.4	7.8	7.1
62.5°	5.2	5.2	5.8	5.2	5.2
65°	3.9	3.9	3.9	3.9	3.9
67.5°	1.9	2.6	2.6	2.6	2.6
70°	1.9	1.3	1.3	1.3	1.9
72.5°	1.3	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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