

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P748337

Luminaire Tested: LD4D45BD010-EU4DR3040509030-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748337
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-EU4DR3040509030-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3589.7 lumens
Efficiency: N/A
Efficacy: 92.8 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

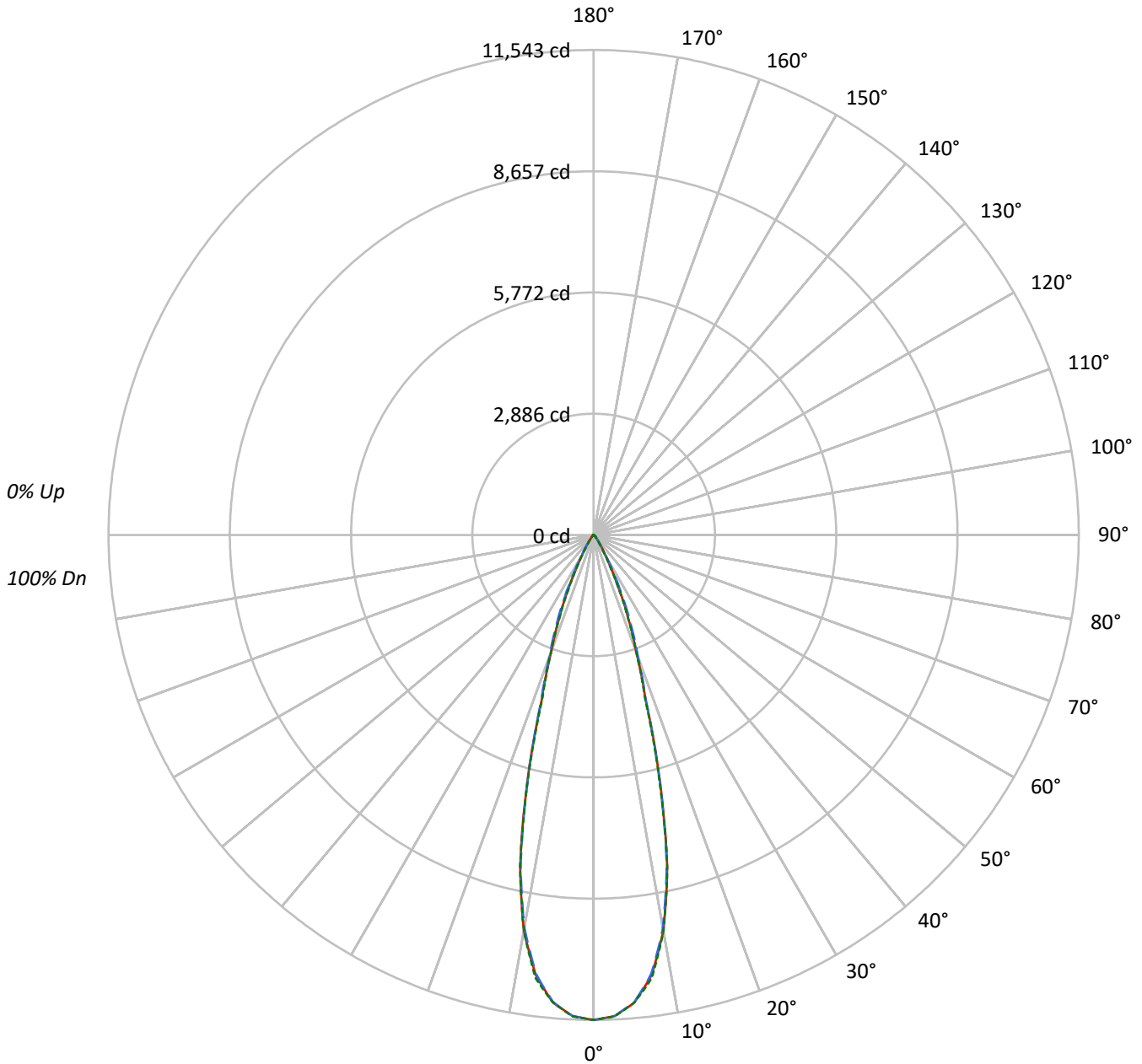
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	883510	883510	883510
5°	858148	857149	858194
10°	743284	738046	743113
15°	484955	482356	479931
20°	241150	250191	240824
25°	121473	136980	118982
30°	48638	52995	42372
35°	22557	21604	18109
40°	9742	10811	9173
45°	6874	8530	6928
50°	2358	6204	2501
55°	1361	2576	1441
60°	949	1133	949
65°	616	616	616
70°	380	246	380
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 8530 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1015.0	28.3
10°-20°	1634.7	45.5
20°-30°	706.4	19.7
30°-40°	161.0	4.5
40°-50°	55.3	1.5
50°-60°	13.5	0.4
60°-70°	3.5	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°	3356.1	93.5
0°-40°	3517.0	98.0
0°-60°	3585.8	99.9
0°-90°	3589.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3589.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11543	11543	11543	11543	11543	
5°	11169	11158	11156	11179	11169	1016
15°	6120	6046	6087	6067	6056	1639
25°	1438	1493	1622	1455	1409	688
35°	241	246	231	230	194	164
45°	64	79	79	79	64	45
55°	10	11	19	11	11	10
65°	3	3	3	3	3	3
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°	11542.6	11542.6	11542.6	11542.6	11542.6
2.5°	11466.1	11458.2	11462.7	11468.4	11470.7
5°	11168.6	11157.8	11155.6	11178.8	11169.2
7.5°	10568.5	10553.2	10529.9	10582.6	10631.9
10°	9563.1	9546.1	9495.7	9520.6	9560.9
12.5°	8078.9	8024.0	8022.8	8102.2	8091.4
15°	6119.8	6046.2	6087.0	6067.1	6056.4
17.5°	4115.4	4087.1	4141.5	4125.0	4054.2
20°	2960.5	2967.8	3071.5	3019.4	2956.5
22.5°	2160.3	2186.9	2309.9	2175.6	2126.3
25°	1438.3	1492.7	1621.9	1454.7	1408.8
27.5°	884.6	909.6	1040.5	873.3	848.4
30°	550.3	537.8	599.6	514.6	479.4
32.5°	361.0	345.1	365.0	327.6	299.2
35°	241.4	246.5	231.2	229.5	193.8
37.5°	150.7	173.4	153.0	163.2	124.7
40°	97.5	125.8	108.2	119.6	91.8
42.5°	79.9	96.9	89.0	94.6	81.6
45°	63.5	78.8	78.8	78.8	64.0
47.5°	35.1	52.7	67.4	53.8	37.4
50°	19.8	26.6	52.1	27.8	21.0
52.5°	13.6	15.3	35.7	15.9	14.2
55°	10.2	10.8	19.3	11.3	10.8
57.5°	7.9	8.5	10.2	8.5	7.9
60°	6.2	6.2	7.4	6.8	6.2
62.5°	4.5	4.5	5.1	4.5	4.5
65°	3.4	3.4	3.4	3.4	3.4
67.5°	1.7	2.3	2.3	2.3	2.3
70°	1.7	1.1	1.1	1.1	1.7
72.5°	1.1	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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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