

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: P748369

Luminaire Tested: LD4D45BD010-EU4DR3040509040-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748369
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-EU4DR3040509040-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3578.7 lumens
Efficiency: N/A
Efficacy: 92.5 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

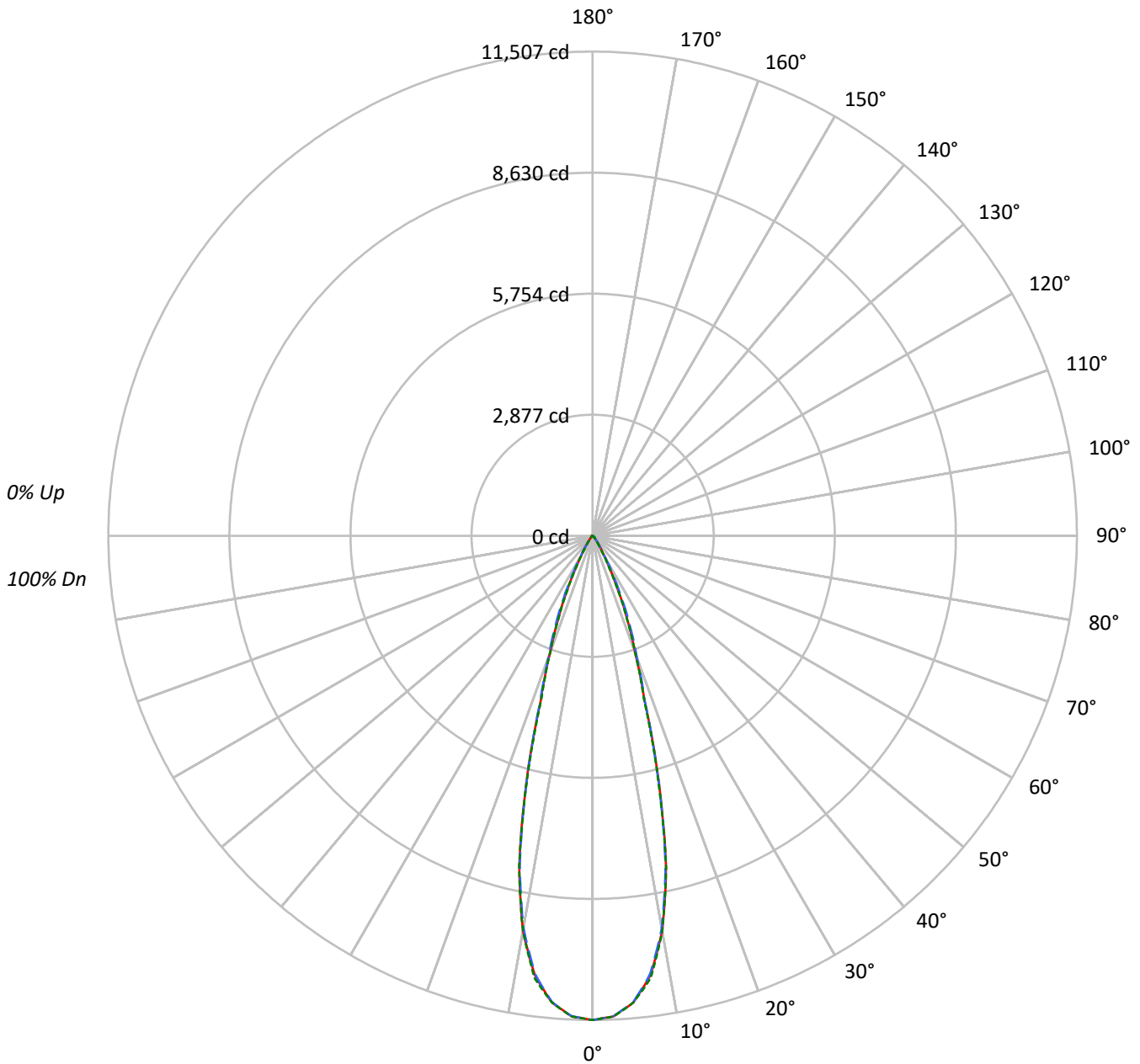
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	880800	880800	880800
5°	855513	854514	855559
10°	741007	735776	740828
15°	483465	480874	478457
20°	240409	249426	240083
25°	121102	136557	118619
30°	48488	52828	42248
35°	22492	21538	18053
40°	9712	10781	9143
45°	6852	8498	6906
50°	2358	6192	2489
55°	1361	2562	1428
60°	949	1118	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: 8498 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1011.9	28.3
10°-20°	1629.6	45.5
20°-30°	704.2	19.7
30°-40°	160.5	4.5
40°-50°	55.1	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°	3345.7	93.5
0°-40°	3506.3	98.0
0°-60°	3574.8	99.9
0°-90°	3578.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3578.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11507	11507	11507	11507	11507	
5°	11134	11124	11121	11144	11135	1013
15°	6101	6028	6068	6048	6038	1634
25°	1434	1488	1617	1450	1404	686
35°	241	246	230	229	193	163
45°	63	78	78	78	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°	11507.2	11507.2	11507.2	11507.2	11507.2
2.5°	11430.9	11423.0	11427.5	11433.2	11435.4
5°	11134.3	11123.6	11121.3	11144.5	11134.9
7.5°	10536.0	10520.8	10497.6	10550.1	10599.3
10°	9533.8	9516.8	9466.5	9491.4	9531.5
12.5°	8054.1	7999.3	7998.2	8077.3	8066.6
15°	6101.0	6027.6	6068.3	6048.5	6037.8
17.5°	4102.8	4074.5	4128.8	4112.4	4041.8
20°	2951.4	2958.7	3062.1	3010.1	2947.4
22.5°	2153.6	2180.2	2302.8	2168.9	2119.7
25°	1433.9	1488.1	1616.9	1450.3	1404.5
27.5°	881.9	906.8	1037.3	870.6	845.8
30°	548.6	536.2	597.7	513.0	478.0
32.5°	359.9	344.1	363.8	326.5	298.3
35°	240.7	245.8	230.5	228.8	193.2
37.5°	150.3	172.9	152.5	162.7	124.3
40°	97.2	125.4	107.9	119.2	91.5
42.5°	79.7	96.6	88.7	94.3	81.4
45°	63.3	78.5	78.5	78.5	63.8
47.5°	35.0	52.5	67.2	53.7	37.3
50°	19.8	26.6	52.0	27.7	20.9
52.5°	13.6	15.3	35.6	15.8	14.1
55°	10.2	10.7	19.2	11.3	10.7
57.5°	7.9	8.5	10.2	8.5	7.9
60°	6.2	6.2	7.3	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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