

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: P747544

Luminaire Tested: LD4D40BD010-EU4DR3040509027-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747544
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: LD4D40BD010-EU4DR3040509027-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3180.9 lumens
Efficiency: N/A
Efficacy: 90.4 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

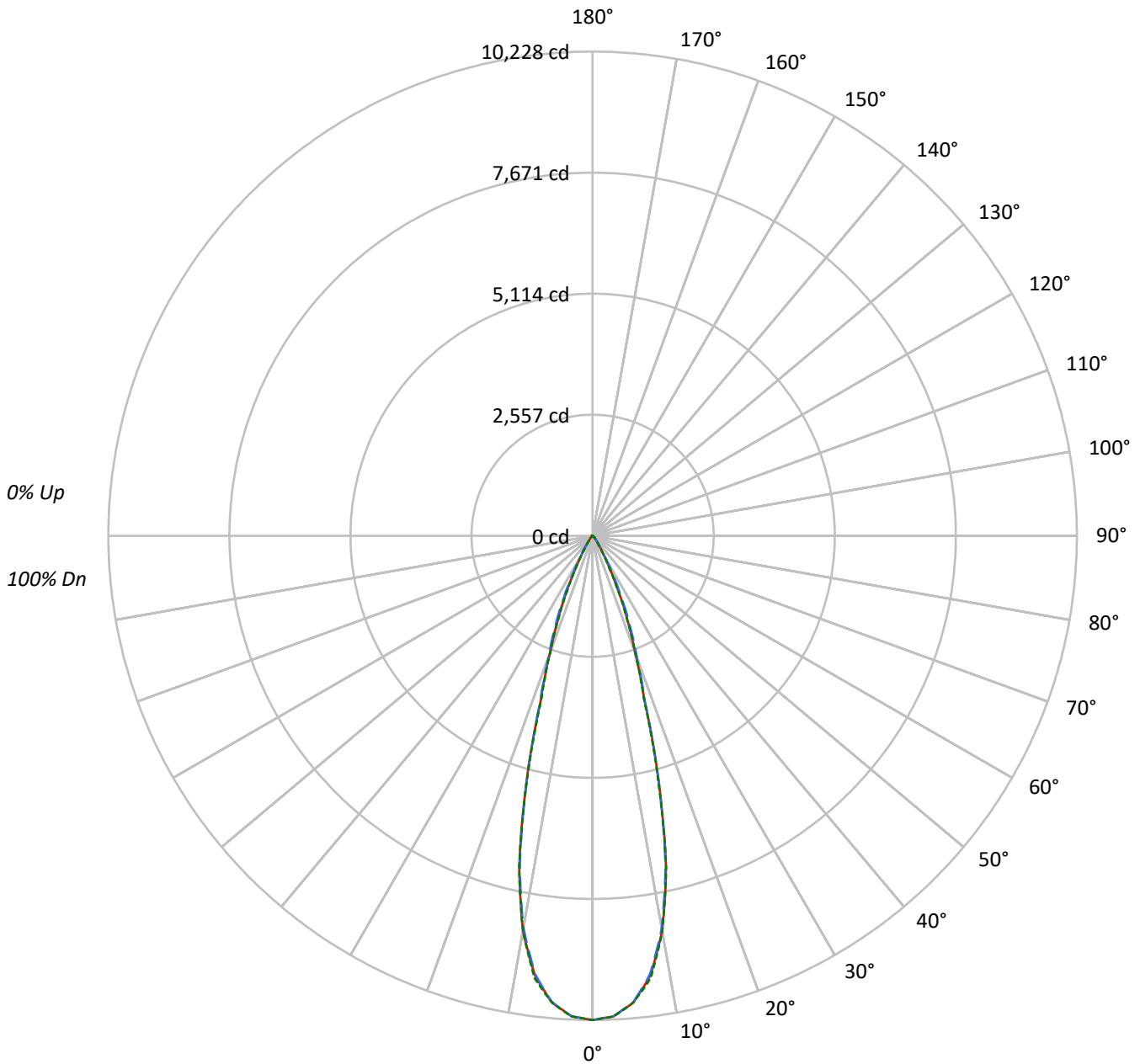
Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	782916	782916	782916
5°	760436	759552	760474
10°	658658	654010	658503
15°	429738	427432	425284
20°	213691	221706	213406
25°	107640	121381	105435
30°	43096	46959	37546
35°	19987	19146	16044
40°	8633	9582	8134
45°	6084	7556	6138
50°	2096	5502	2215
55°	1201	2282	1268
60°	842	995	842
65°	543	543	543
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: 7556 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	899.4	28.3
10°-20°	1448.5	45.5
20°-30°	626.0	19.7
30°-40°	142.7	4.5
40°-50°	49.0	1.5
50°-60°	12.0	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°	2973.9	93.5
0°-40°	3116.6	98.0
0°-60°	3177.5	99.9
0°-90°	3180.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3180.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10228	10228	10228	10228	10228	
5°	9897	9887	9885	9906	9897	900
15°	5423	5358	5394	5376	5367	1452
25°	1274	1323	1437	1289	1248	610
35°	214	218	205	203	172	145
45°	56	70	70	70	57	40
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°	10228.4	10228.4	10228.4	10228.4	10228.4
2.5°	10160.6	10153.5	10157.6	10162.6	10164.6
5°	9896.9	9887.4	9885.4	9906.0	9897.4
7.5°	9365.1	9351.6	9331.0	9377.7	9421.4
10°	8474.3	8459.2	8414.5	8436.6	8472.3
12.5°	7159.1	7110.3	7109.3	7179.6	7170.1
15°	5423.0	5357.7	5393.9	5376.3	5366.8
17.5°	3646.8	3621.7	3669.9	3655.4	3592.6
20°	2623.4	2629.9	2721.8	2675.6	2619.9
22.5°	1914.3	1937.9	2046.9	1927.9	1884.2
25°	1274.5	1322.7	1437.2	1289.1	1248.4
27.5°	783.9	806.0	922.0	773.9	751.8
30°	487.6	476.6	531.3	456.0	424.8
32.5°	319.9	305.8	323.4	290.3	265.2
35°	213.9	218.4	204.9	203.4	171.7
37.5°	133.6	153.7	135.6	144.6	110.5
40°	86.4	111.5	95.9	106.0	81.4
42.5°	70.8	85.9	78.8	83.9	72.3
45°	56.2	69.8	69.8	69.8	56.7
47.5°	31.1	46.7	59.8	47.7	33.1
50°	17.6	23.6	46.2	24.6	18.6
52.5°	12.1	13.6	31.6	14.1	12.6
55°	9.0	9.5	17.1	10.0	9.5
57.5°	7.0	7.5	9.0	7.5	7.0
60°	5.5	5.5	6.5	6.0	5.5
62.5°	4.0	4.0	4.5	4.0	4.0
65°	3.0	3.0	3.0	3.0	3.0
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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