

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: P747536

Luminaire Tested: LD4D40BD010-EU4DR3040509024-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747536
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-EU4DR3040509024-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

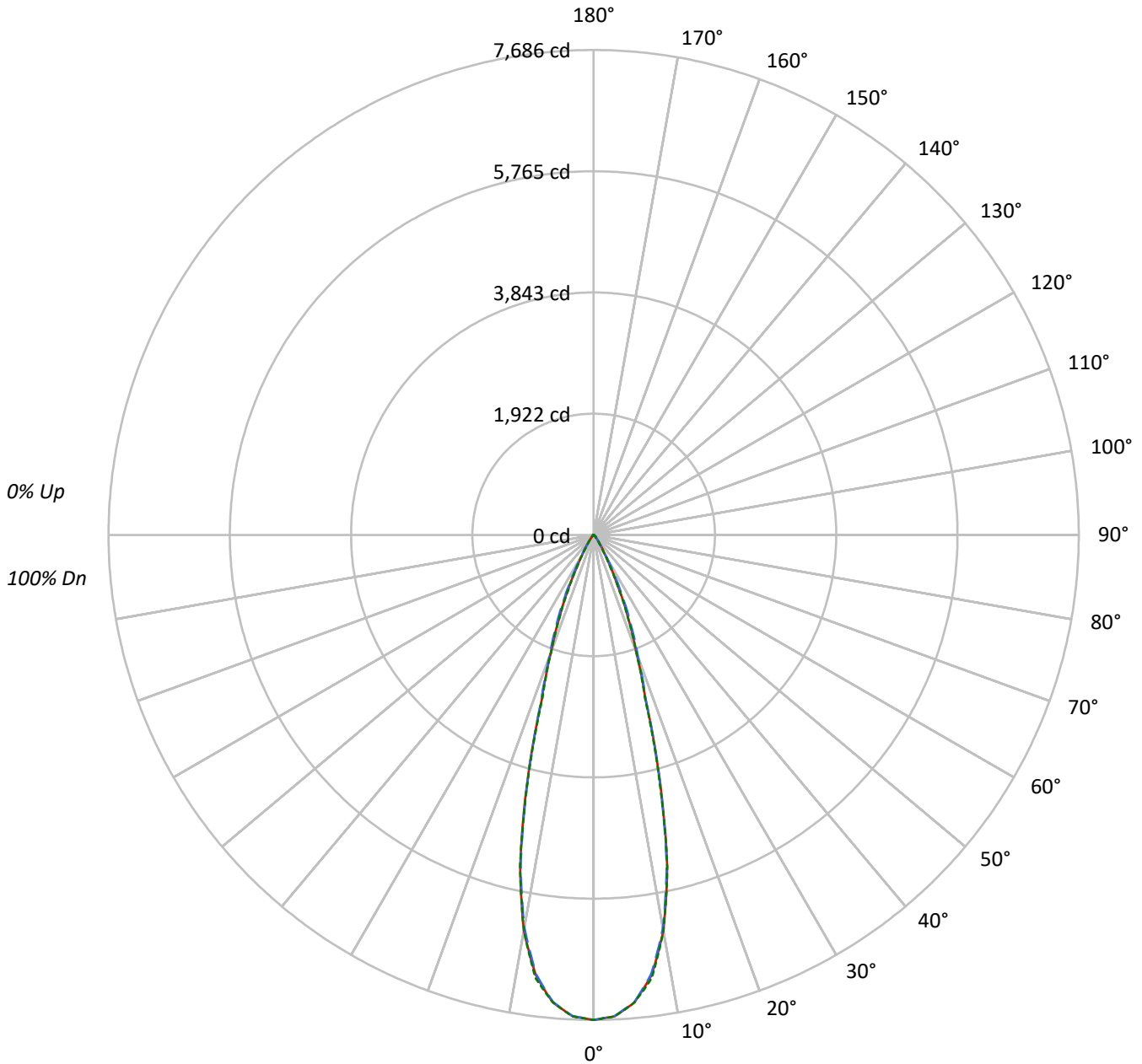
Lumens per Lamp: N/A
Luminaire Lumens: 2390.5 lumens
Efficiency: N/A
Efficacy: 67.9 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (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	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°	588351	588351	588351
5°	571458	570798	571489
10°	494971	491481	494854
15°	322949	321214	319597
20°	160582	166610	160370
25°	80892	91221	79237
30°	32384	35292	28221
35°	15026	14390	12063
40°	6485	7204	6105
45°	4579	5683	4611
50°	1572	4132	1667
55°	907	1708	961
60°	643	750	643
65°	417	417	417
70°	246	179	246
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 5683 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	675.9	28.3
10°-20°	1088.6	45.5
20°-30°	470.4	19.7
30°-40°	107.2	4.5
40°-50°	36.8	1.5
50°-60°	9.0	0.4
60°-70°	2.3	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°	2234.9	93.5
0°-40°	2342.1	98.0
0°-60°	2387.9	99.9
0°-90°	2390.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2390.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7686	7686	7686	7686	7686	
5°	7437	7430	7429	7444	7438	676
15°	4075	4026	4054	4040	4033	1091
25°	958	994	1080	969	938	458
35°	161	164	154	153	129	109
45°	42	52	52	52	43	30
55°	7	7	13	8	7	7
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
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°	7686.5	7686.5	7686.5	7686.5	7686.5
2.5°	7635.6	7630.3	7633.3	7637.1	7638.6
5°	7437.4	7430.3	7428.8	7444.2	7437.8
7.5°	7037.8	7027.6	7012.1	7047.2	7080.1
10°	6368.3	6357.0	6323.4	6340.0	6366.8
12.5°	5380.0	5343.4	5342.6	5395.4	5388.3
15°	4075.4	4026.3	4053.5	4040.3	4033.1
17.5°	2740.5	2721.7	2757.9	2747.0	2699.8
20°	1971.4	1976.4	2045.4	2010.7	1968.8
22.5°	1438.6	1456.3	1538.2	1448.8	1415.9
25°	957.8	994.0	1080.1	968.7	938.2
27.5°	589.1	605.7	692.9	581.5	564.9
30°	366.4	358.1	399.3	342.7	319.3
32.5°	240.4	229.8	243.0	218.1	199.3
35°	160.8	164.2	154.0	152.8	129.1
37.5°	100.4	115.5	101.9	108.7	83.0
40°	64.9	83.8	72.1	79.6	61.1
42.5°	53.2	64.5	59.2	63.0	54.3
45°	42.3	52.5	52.5	52.5	42.6
47.5°	23.4	35.1	44.9	35.9	24.9
50°	13.2	17.7	34.7	18.5	14.0
52.5°	9.1	10.2	23.8	10.6	9.4
55°	6.8	7.2	12.8	7.5	7.2
57.5°	5.3	5.7	6.8	5.7	5.3
60°	4.2	4.2	4.9	4.5	4.2
62.5°	3.0	3.0	3.4	3.0	3.0
65°	2.3	2.3	2.3	2.3	2.3
67.5°	1.1	1.5	1.5	1.5	1.5
70°	1.1	0.8	0.8	0.8	1.1
72.5°	0.8	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.4	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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