

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: P746745

Luminaire Tested: LD4D35BD010-EU4DR3020359024-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746745
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: LD4D35BD010-EU4DR3020359024-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2441.9 lumens
Efficiency: N/A
Efficacy: 79.3 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

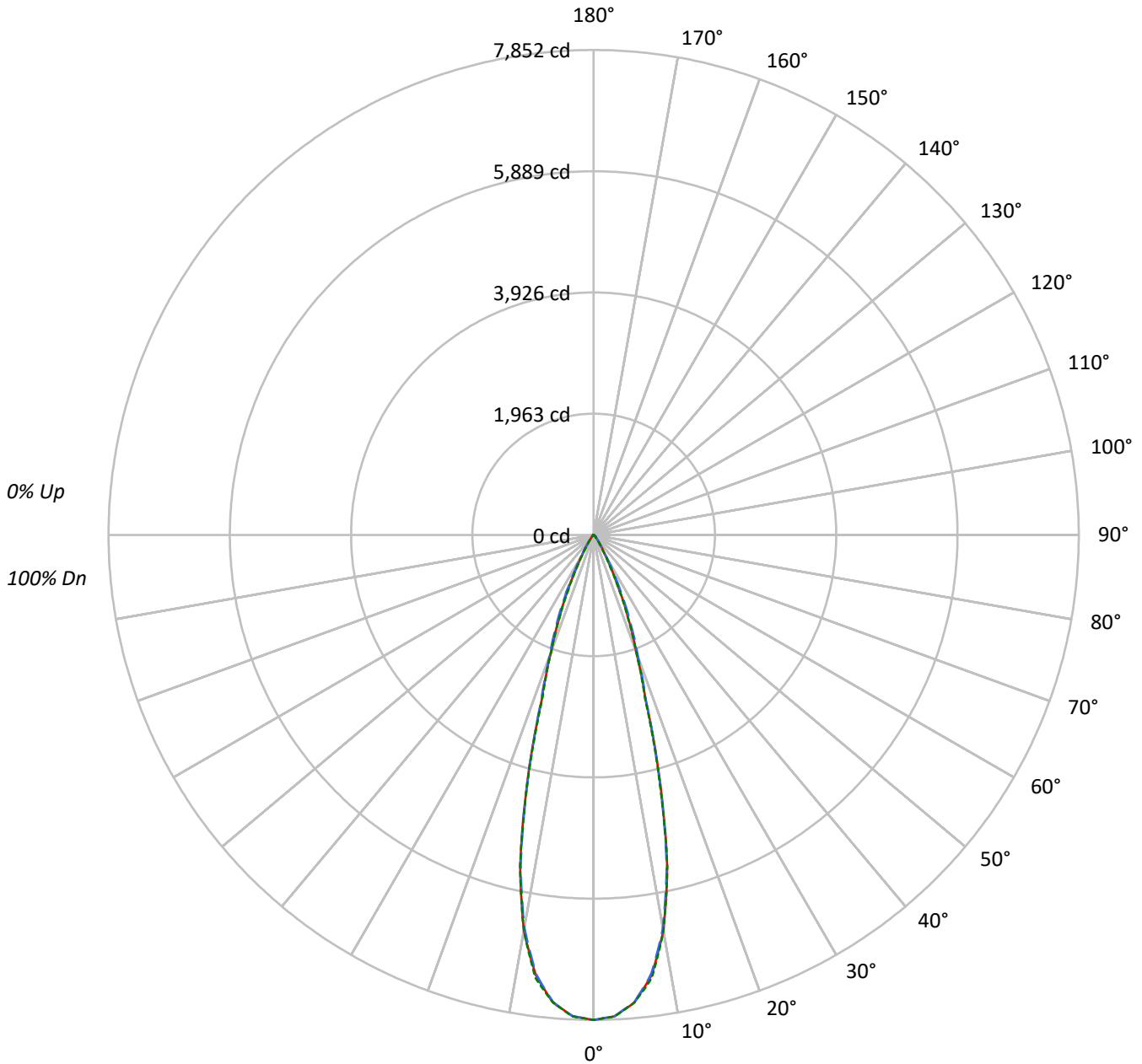
Input Watts (W): 30.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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																			
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°	601011	601011	601011
5°	583760	583076	583791
10°	505619	502059	505503
15°	329891	328124	326476
20°	164044	170194	163824
25°	82632	93181	80943
30°	33082	36052	28822
35°	15343	14698	12316
40°	6625	7354	6245
45°	4676	5802	4720
50°	1608	4227	1703
55°	921	1748	974
60°	643	765	643
65°	417	417	417
70°	269	179	269
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 5802 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	690.5	28.3
10°-20°	1112.0	45.5
20°-30°	480.5	19.7
30°-40°	109.5	4.5
40°-50°	37.6	1.5
50°-60°	9.2	0.4
60°-70°	2.4	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°	2283.0	93.5
0°-40°	2392.5	98.0
0°-60°	2439.3	99.9
0°-90°	2441.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2441.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7852	7852	7852	7852	7852	
5°	7598	7590	7589	7604	7598	691
15°	4163	4113	4141	4127	4120	1115
25°	978	1015	1103	990	958	468
35°	164	168	157	156	132	111
45°	43	54	54	54	44	31
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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7851.9	7851.9	7851.9	7851.9	7851.9
2.5°	7799.9	7794.5	7797.5	7801.4	7802.9
5°	7597.5	7590.1	7588.6	7604.4	7597.9
7.5°	7189.2	7178.8	7163.0	7198.9	7232.4
10°	6505.3	6493.8	6459.5	6476.4	6503.8
12.5°	5495.7	5458.3	5457.6	5511.5	5504.2
15°	4163.0	4112.9	4140.7	4127.2	4119.9
17.5°	2799.5	2780.2	2817.2	2806.1	2757.9
20°	2013.9	2018.9	2089.4	2054.0	2011.2
22.5°	1469.5	1487.7	1571.3	1479.9	1446.4
25°	978.4	1015.4	1103.3	989.6	958.4
27.5°	601.8	618.7	707.8	594.1	577.1
30°	374.3	365.8	407.9	350.0	326.1
32.5°	245.6	234.8	248.3	222.8	203.5
35°	164.2	167.7	157.3	156.1	131.8
37.5°	102.5	118.0	104.1	111.0	84.8
40°	66.3	85.6	73.6	81.3	62.5
42.5°	54.4	65.9	60.5	64.4	55.5
45°	43.2	53.6	53.6	53.6	43.6
47.5°	23.9	35.9	45.9	36.6	25.4
50°	13.5	18.1	35.5	18.9	14.3
52.5°	9.3	10.4	24.3	10.8	9.6
55°	6.9	7.3	13.1	7.7	7.3
57.5°	5.4	5.8	6.9	5.8	5.4
60°	4.2	4.2	5.0	4.6	4.2
62.5°	3.1	3.1	3.5	3.1	3.1
65°	2.3	2.3	2.3	2.3	2.3
67.5°	1.2	1.5	1.5	1.5	1.5
70°	1.2	0.8	0.8	0.8	1.2
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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