

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: P739067

Luminaire Tested: LD4D02D010-EU4DR300210IC9024-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P739067
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: LD4D02D010-EU4DR300210IC9024-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 249.7 lumens
Efficiency: N/A
Efficacy: 49.0 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): 5.1
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

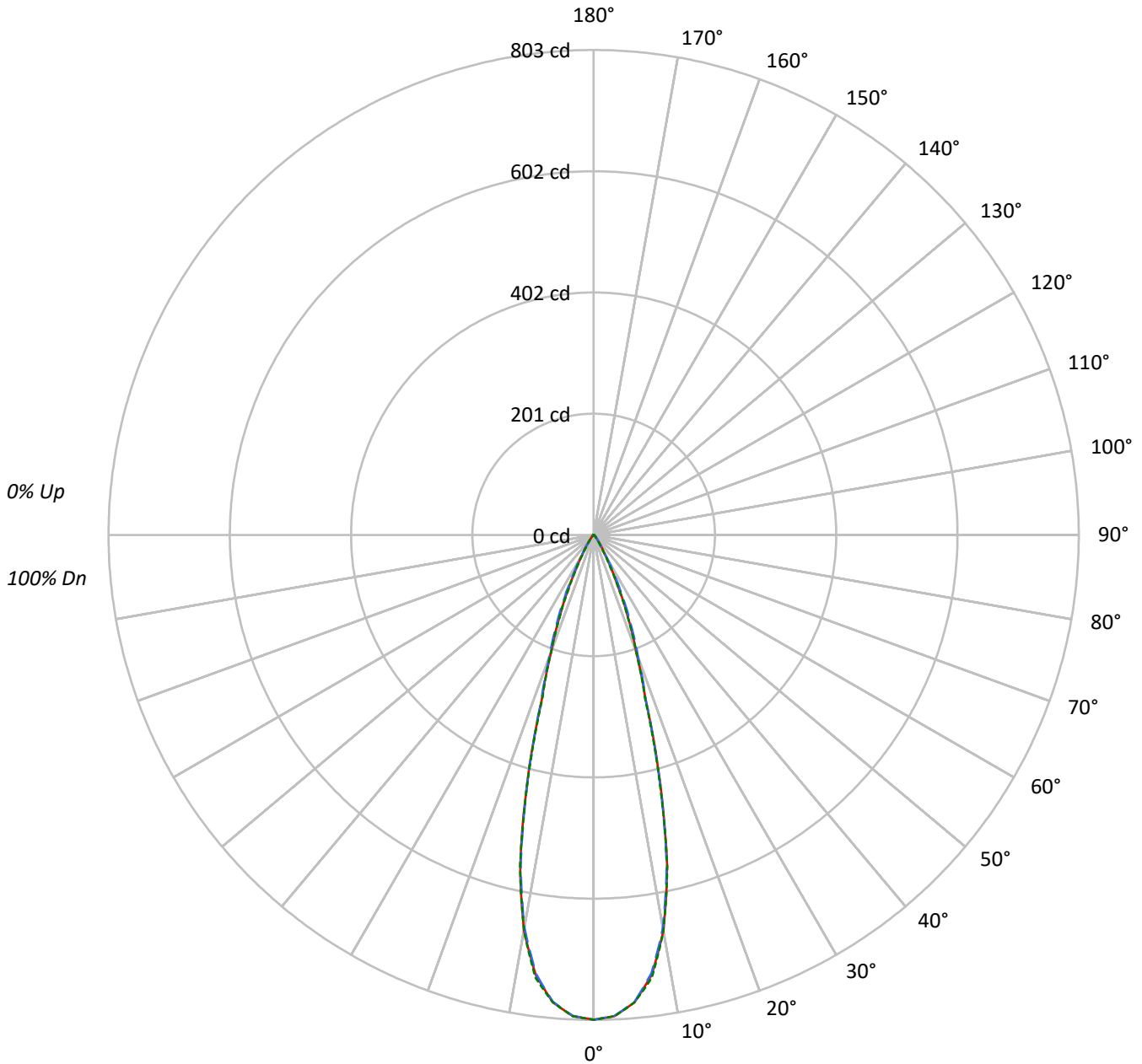


Downlight



TEST NUMBER: P739067
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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°	61441	61441	61441
5°	59678	59609	59678
10°	51687	51321	51679
15°	33726	33544	33377
20°	16772	17399	16747
25°	8446	9527	8277
30°	3385	3686	2943
35°	1570	1504	1261
40°	679	749	639
45°	476	595	487
50°	167	429	167
55°	93	173	93
60°	77	77	77
65°	36	36	36
70°	22	22	22
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 595 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.6	28.3
10°-20°	113.7	45.5
20°-30°	49.1	19.7
30°-40°	11.2	4.5
40°-50°	3.9	1.5
50°-60°	0.9	0.4
60°-70°	0.2	0.1
70°-80°	0.0	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°	233.4	93.5
0°-40°	244.6	98.0
0°-60°	249.4	99.9
0°-90°	249.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	249.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	803	803	803	803	803	
5°	777	776	776	777	777	71
15°	426	420	423	422	421	114
25°	100	104	113	101	98	48
35°	17	17	16	16	14	11
45°	4	6	6	6	4	3
55°	1	1	1	1	1	1
65°	0	0	0	0	0	0
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°	802.7	802.7	802.7	802.7	802.7
2.5°	797.4	796.8	797.1	797.5	797.7
5°	776.7	775.9	775.8	777.4	776.7
7.5°	734.9	733.9	732.2	735.9	739.3
10°	665.0	663.8	660.3	662.0	664.9
12.5°	561.8	558.0	557.9	563.4	562.7
15°	425.6	420.4	423.3	421.9	421.2
17.5°	286.2	284.2	288.0	286.9	281.9
20°	205.9	206.4	213.6	210.0	205.6
22.5°	150.2	152.1	160.7	151.3	147.9
25°	100.0	103.8	112.8	101.2	98.0
27.5°	61.5	63.3	72.4	60.7	59.0
30°	38.3	37.4	41.7	35.8	33.3
32.5°	25.1	24.0	25.4	22.8	20.8
35°	16.8	17.1	16.1	16.0	13.5
37.5°	10.5	12.0	10.7	11.3	8.7
40°	6.8	8.8	7.5	8.3	6.4
42.5°	5.6	6.8	6.2	6.6	5.7
45°	4.4	5.5	5.5	5.5	4.5
47.5°	2.5	3.7	4.7	3.7	2.6
50°	1.4	1.8	3.6	1.9	1.4
52.5°	1.0	1.1	2.5	1.1	1.0
55°	0.7	0.7	1.3	0.8	0.7
57.5°	0.6	0.6	0.7	0.6	0.6
60°	0.5	0.5	0.5	0.5	0.5
62.5°	0.3	0.3	0.3	0.3	0.3
65°	0.2	0.2	0.2	0.2	0.2
67.5°	0.1	0.2	0.2	0.2	0.2
70°	0.1	0.1	0.1	0.1	0.1
72.5°	0.1	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	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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(END OF REPORT)