

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: P739061

Luminaire Tested: LD4D02D010-EU4DR300210IC9024-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P739061
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-EU4DR300210IC9024-4LBDP1MW
Description: 4 INCH ROUND 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: 264.9 lumens
Efficiency: N/A
Efficacy: 51.9 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): 5.1
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



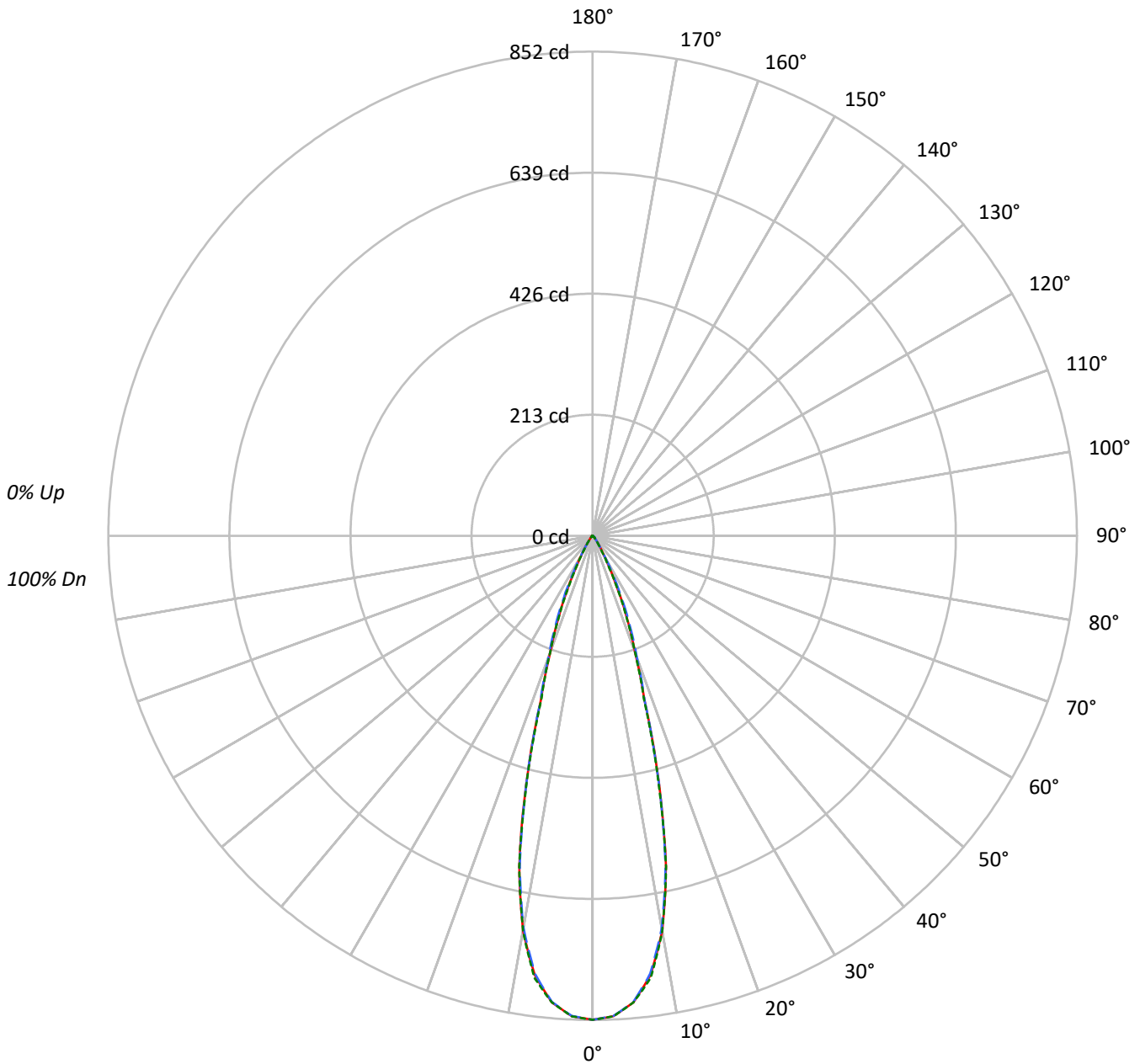
Downlight



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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°	65192	65192	65192
5°	63320	63244	63320
10°	54842	54461	54834
15°	35778	35588	35406
20°	17798	18466	17766
25°	8961	10109	8775
30°	3588	3907	3129
35°	1663	1598	1336
40°	719	799	679
45°	509	628	509
50°	179	453	179
55°	93	187	107
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: 628 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.9	28.3
10°-20°	120.6	45.5
20°-30°	52.1	19.7
30°-40°	11.9	4.5
40°-50°	4.1	1.5
50°-60°	1.0	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°	247.6	93.5
0°-40°	259.5	98.0
0°-60°	264.6	99.9
0°-90°	264.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	264.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	852	852	852	852	852	
5°	824	823	823	825	824	75
15°	452	446	449	448	447	121
25°	106	110	120	107	104	51
35°	18	18	17	17	14	12
45°	5	6	6	6	5	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°	851.7	851.7	851.7	851.7	851.7
2.5°	846.0	845.4	845.8	846.2	846.4
5°	824.1	823.3	823.1	824.8	824.1
7.5°	779.8	778.6	777.0	780.8	784.5
10°	705.6	704.4	700.7	702.5	705.5
12.5°	596.1	592.0	592.0	597.8	597.0
15°	451.5	446.1	449.1	447.6	446.8
17.5°	303.7	301.5	305.6	304.4	299.1
20°	218.5	219.0	226.7	222.8	218.1
22.5°	159.4	161.3	170.5	160.5	156.9
25°	106.1	110.1	119.7	107.3	103.9
27.5°	65.3	67.1	76.8	64.5	62.6
30°	40.6	39.7	44.2	38.0	35.4
32.5°	26.6	25.4	26.9	24.2	22.1
35°	17.8	18.2	17.1	17.0	14.3
37.5°	11.1	12.8	11.3	12.0	9.2
40°	7.2	9.3	8.0	8.8	6.8
42.5°	5.9	7.2	6.6	7.0	6.0
45°	4.7	5.8	5.8	5.8	4.7
47.5°	2.6	3.9	5.0	4.0	2.8
50°	1.5	1.9	3.8	2.1	1.5
52.5°	1.0	1.1	2.6	1.1	1.0
55°	0.7	0.8	1.4	0.9	0.8
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	0.4	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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