

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: P739132

Luminaire Tested: LD4D02D010-EU4DR300210IC9050-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P739132
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-EU4DR300210IC9050-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 306.8 lumens
Efficiency: N/A
Efficacy: 60.2 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

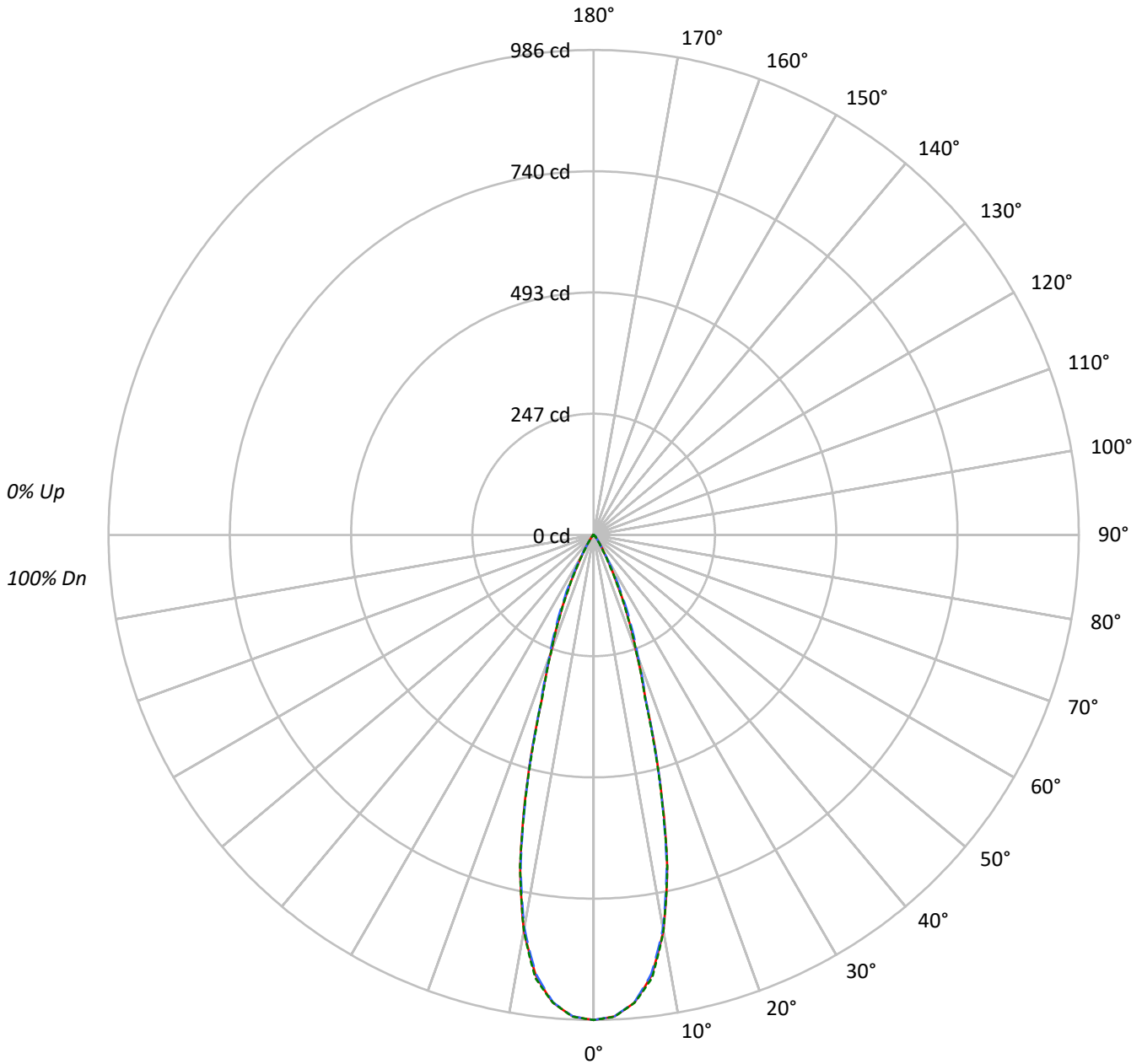


Downlight



TEST NUMBER: P739132
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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°	75495	75495	75495
5°	73332	73248	73332
10°	63516	63073	63501
15°	41444	41222	41009
20°	20608	21382	20584
25°	10380	11706	10169
30°	4154	4525	3624
35°	1925	1850	1551
40°	829	919	779
45°	585	725	595
50°	202	536	214
55°	120	227	120
60°	77	92	77
65°	54	54	54
70°	45	22	45
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 725 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	28.3
10°-20°	139.7	45.5
20°-30°	60.4	19.7
30°-40°	13.8	4.5
40°-50°	4.7	1.5
50°-60°	1.2	0.4
60°-70°	0.3	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°	286.8	93.5
0°-40°	300.5	98.0
0°-60°	306.4	99.9
0°-90°	306.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	306.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	986	986	986	986	986	
5°	954	954	953	955	954	87
15°	523	517	520	518	518	140
25°	123	128	139	124	120	59
35°	21	21	20	20	17	14
45°	5	7	7	7	6	4
55°	1	1	2	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°	986.3	986.3	986.3	986.3	986.3
2.5°	979.8	979.2	979.5	980.0	980.2
5°	954.4	953.5	953.3	955.3	954.4
7.5°	903.1	901.8	899.8	904.3	908.5
10°	817.2	815.8	811.5	813.6	817.0
12.5°	690.3	685.7	685.6	692.4	691.4
15°	523.0	516.7	520.2	518.5	517.5
17.5°	351.7	349.3	353.9	352.5	346.5
20°	253.0	253.6	262.5	258.0	252.7
22.5°	184.6	186.9	197.4	185.9	181.7
25°	122.9	127.5	138.6	124.3	120.4
27.5°	75.6	77.7	88.9	74.6	72.5
30°	47.0	46.0	51.2	43.9	41.0
32.5°	30.8	29.5	31.2	28.0	25.6
35°	20.6	21.1	19.8	19.6	16.6
37.5°	12.9	14.8	13.1	13.9	10.7
40°	8.3	10.8	9.2	10.2	7.8
42.5°	6.8	8.3	7.6	8.1	7.0
45°	5.4	6.7	6.7	6.7	5.5
47.5°	3.0	4.5	5.8	4.6	3.2
50°	1.7	2.3	4.5	2.3	1.8
52.5°	1.1	1.3	3.0	1.4	1.2
55°	0.9	0.9	1.7	1.0	0.9
57.5°	0.7	0.7	0.9	0.7	0.7
60°	0.5	0.5	0.6	0.6	0.5
62.5°	0.4	0.4	0.5	0.4	0.4
65°	0.3	0.3	0.3	0.3	0.3
67.5°	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.1	0.1	0.1	0.2
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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