

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: P742168

Luminaire Tested: LD4D10D010-EU4DR300210IC9050-4LBDP1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P742168  
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: LD4D10D010-EU4DR300210IC9050-4LBDP1MW  
Description: 4 INCH ROUND 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: 933.3 lumens  
Efficiency: N/A  
Efficacy: 79.8 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): 11.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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



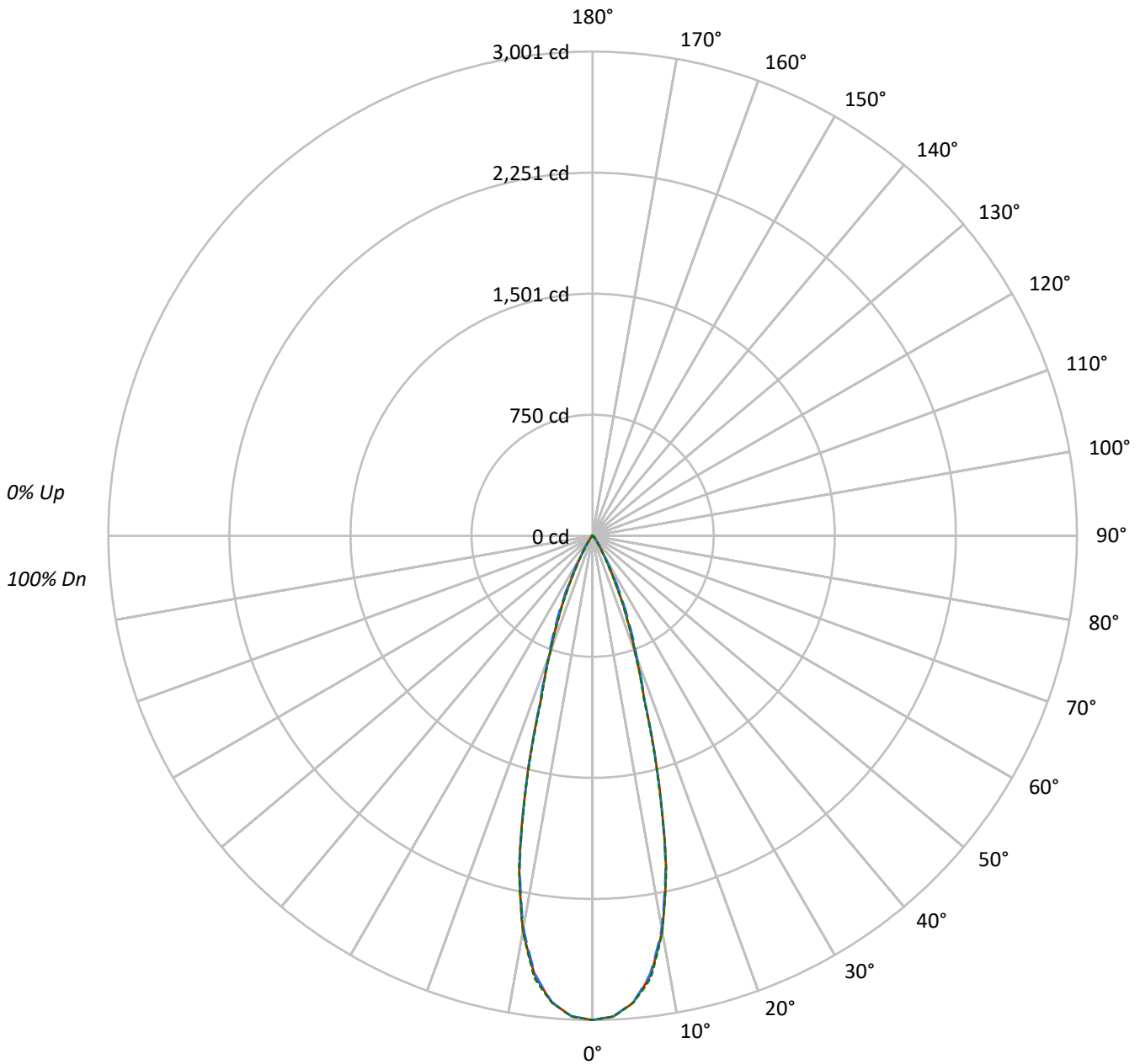
Downlight



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	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°	229714	229714	229714
5°	223116	222854	223123
10°	193253	191886	193207
15°	126084	125411	124777
20°	62697	65051	62615
25°	31587	35615	30936
30°	12648	13779	11022
35°	5868	5616	4709
40°	2528	2808	2388
45°	1786	2219	1808
50°	619	1619	643
55°	347	667	374
60°	245	291	245
65°	163	163	163
70°	112	67	112
75°	0	59	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 2219 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	263.9	28.3
10°-20°	425.0	45.5
20°-30°	183.7	19.7
30°-40°	41.9	4.5
40°-50°	14.4	1.5
50°-60°	3.5	0.4
60°-70°	0.9	0.1
70°-80°	0.1	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°	872.6	93.5
0°-40°	914.4	98.0
0°-60°	932.3	99.9
0°-90°	933.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	933.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3001	3001	3001	3001	3001	
5°	2904	2901	2900	2906	2904	264
15°	1591	1572	1583	1577	1575	426
25°	374	388	422	378	366	179
35°	63	64	60	60	50	43
45°	16	20	20	20	17	12
55°	3	3	5	3	3	3
65°	1	1	1	1	1	1
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°	3001.1	3001.1	3001.1	3001.1	3001.1
2.5°	2981.1	2979.1	2980.3	2981.8	2982.3
5°	2903.8	2901.0	2900.4	2906.5	2903.9
7.5°	2747.8	2743.8	2737.7	2751.4	2764.3
10°	2486.4	2482.0	2468.8	2475.3	2485.8
12.5°	2100.5	2086.2	2085.9	2106.5	2103.7
15°	1591.1	1572.0	1582.6	1577.4	1574.6
17.5°	1070.0	1062.6	1076.7	1072.5	1054.1
20°	769.7	771.7	798.6	785.1	768.7
22.5°	561.7	568.6	600.6	565.6	552.8
25°	374.0	388.1	421.7	378.2	366.3
27.5°	230.0	236.5	270.5	227.1	220.6
30°	143.1	139.8	155.9	133.8	124.7
32.5°	93.8	89.7	94.9	85.1	77.8
35°	62.8	64.1	60.1	59.7	50.4
37.5°	39.2	45.1	39.8	42.5	32.4
40°	25.3	32.7	28.1	31.1	23.9
42.5°	20.8	25.2	23.1	24.6	21.2
45°	16.5	20.5	20.5	20.5	16.7
47.5°	9.1	13.7	17.5	14.0	9.7
50°	5.2	6.9	13.6	7.2	5.4
52.5°	3.6	4.0	9.3	4.1	3.7
55°	2.6	2.8	5.0	2.9	2.8
57.5°	2.1	2.2	2.6	2.2	2.1
60°	1.6	1.6	1.9	1.8	1.6
62.5°	1.2	1.2	1.3	1.2	1.2
65°	0.9	0.9	0.9	0.9	0.9
67.5°	0.5	0.6	0.6	0.6	0.6
70°	0.5	0.3	0.3	0.3	0.5
72.5°	0.3	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	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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