

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: P777991

Luminaire Tested: LERS4D10D010-EC4DR300210IC9024-4LBS1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P777991  
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: LERS4D10D010-EC4DR300210IC9024-4LBS1MW  
Description: 4 INCH ROUND SHALLOW 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: 851.9 lumens  
Efficiency: N/A  
Efficacy: 72.8 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



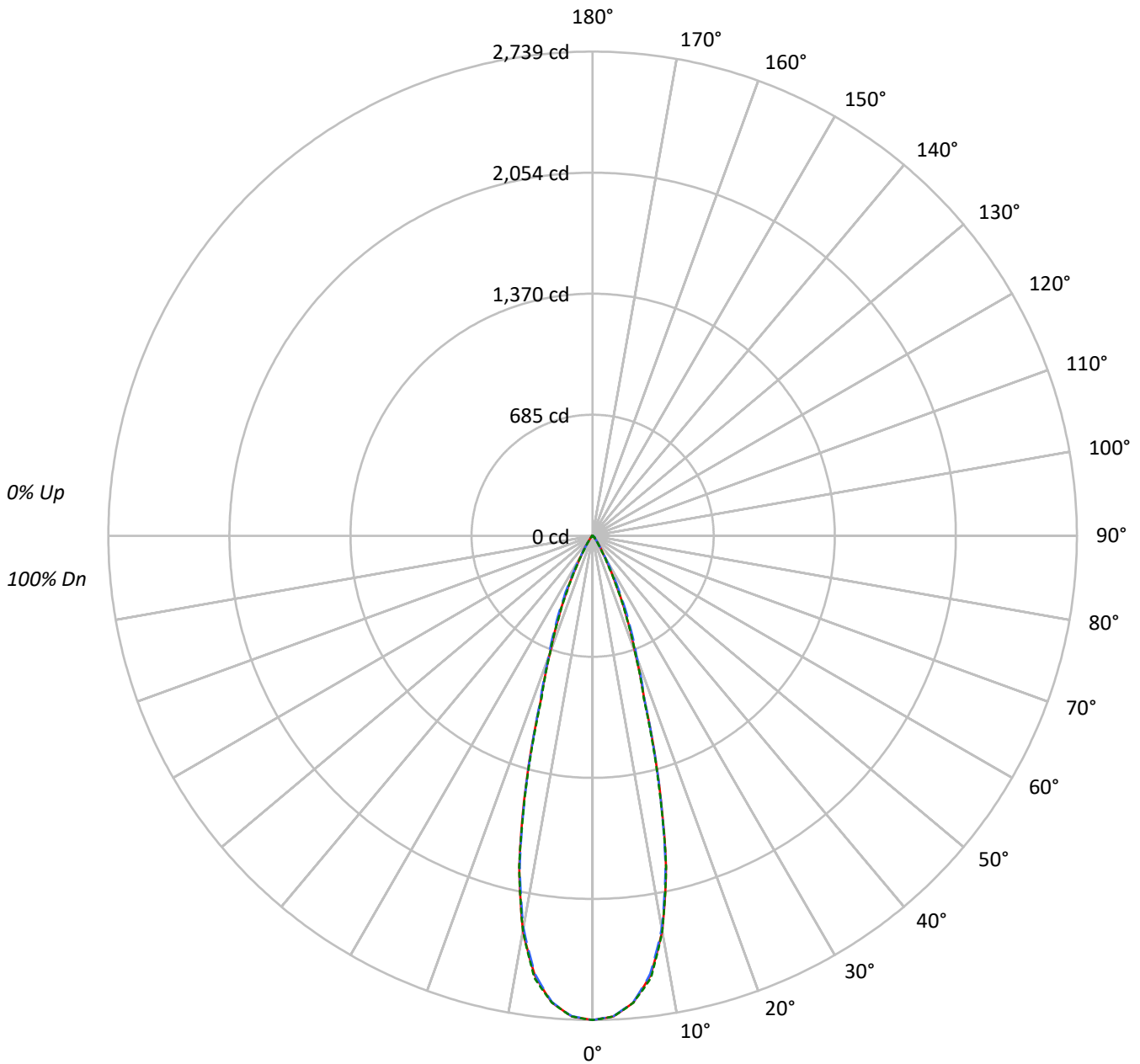
Downlight



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
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°	209675	209675	209675
5°	203653	203415	203661
10°	176395	175151	176356
15°	115093	114475	113897
20°	57231	59381	57149
25°	28833	32507	28234
30°	11543	12577	10058
35°	5354	5130	4298
40°	2308	2568	2178
45°	1635	2024	1645
50°	560	1477	595
55°	320	614	347
60°	230	276	230
65°	145	145	145
70°	90	67	90
75°	0	30	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 2024 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.9	28.3
10°-20°	387.9	45.5
20°-30°	167.6	19.7
30°-40°	38.2	4.5
40°-50°	13.1	1.5
50°-60°	3.2	0.4
60°-70°	0.8	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°	796.5	93.5
0°-40°	834.7	98.0
0°-60°	851.0	99.9
0°-90°	851.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	851.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2739	2739	2739	2739	2739	
5°	2650	2648	2647	2653	2651	241
15°	1452	1435	1445	1440	1437	389
25°	341	354	385	345	334	163
35°	57	58	55	54	46	39
45°	15	19	19	19	15	11
55°	2	3	5	3	3	2
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°	2739.3	2739.3	2739.3	2739.3	2739.3
2.5°	2721.1	2719.3	2720.3	2721.7	2722.2
5°	2650.5	2648.0	2647.4	2652.9	2650.6
7.5°	2508.1	2504.5	2499.0	2511.5	2523.2
10°	2269.5	2265.5	2253.5	2259.4	2269.0
12.5°	1917.3	1904.3	1904.0	1922.8	1920.2
15°	1452.4	1434.9	1444.6	1439.8	1437.3
17.5°	976.7	969.9	982.8	978.9	962.2
20°	702.6	704.3	729.0	716.6	701.6
22.5°	512.7	519.0	548.2	516.3	504.6
25°	341.4	354.3	384.9	345.3	334.3
27.5°	209.9	215.8	246.9	207.2	201.3
30°	130.6	127.7	142.3	122.1	113.8
32.5°	85.7	81.9	86.6	77.7	71.0
35°	57.3	58.5	54.9	54.5	46.0
37.5°	35.8	41.1	36.3	38.7	29.6
40°	23.1	29.9	25.7	28.4	21.8
42.5°	19.0	23.0	21.1	22.5	19.4
45°	15.1	18.7	18.7	18.7	15.2
47.5°	8.4	12.5	16.0	12.8	8.9
50°	4.7	6.3	12.4	6.6	5.0
52.5°	3.2	3.6	8.5	3.8	3.4
55°	2.4	2.6	4.6	2.7	2.6
57.5°	1.9	2.0	2.4	2.0	1.9
60°	1.5	1.5	1.8	1.6	1.5
62.5°	1.1	1.1	1.2	1.1	1.1
65°	0.8	0.8	0.8	0.8	0.8
67.5°	0.4	0.5	0.5	0.5	0.5
70°	0.4	0.3	0.3	0.3	0.4
72.5°	0.3	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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