

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P778301

Luminaire Tested: LERS4D15D010-EC4DR300215IC9024-4LBS1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P778301  
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: LERS4D15D010-EC4DR300215IC9024-4LBS1H  
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1204.3 lumens  
Efficiency: N/A  
Efficacy: 76.2 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): 15.8  
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



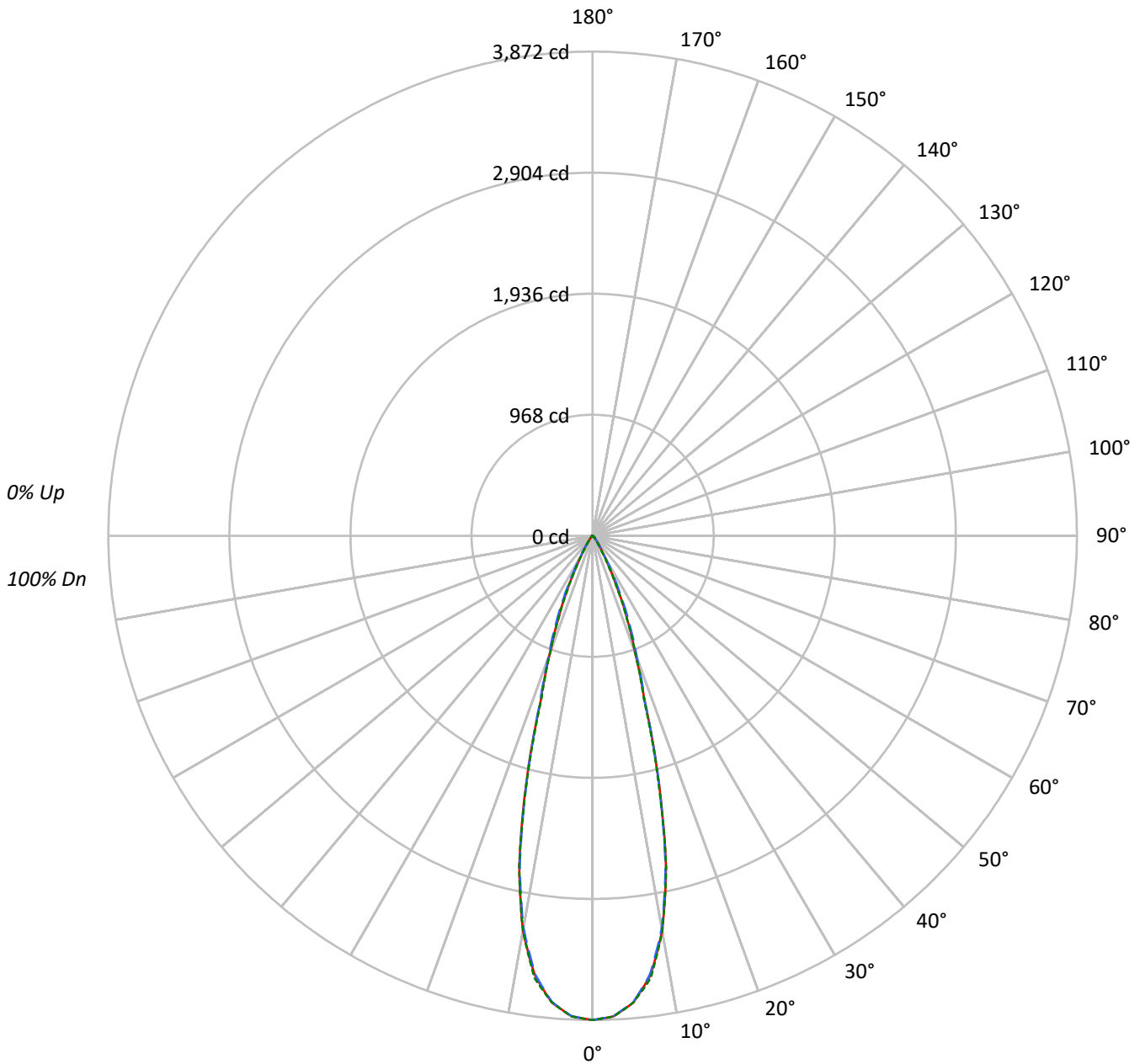
Downlight



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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	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°	296399	296399	296399
5°	287896	287558	287904
10°	249355	247598	249300
15°	162695	161823	161007
20°	80902	83940	80788
25°	40750	45953	39914
30°	16316	17783	14212
35°	7569	7251	6074
40°	3267	3627	3078
45°	2306	2858	2327
50°	786	2084	834
55°	454	867	480
60°	321	383	321
65°	199	199	199
70°	134	90	134
75°	0	59	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 2858 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	340.5	28.3
10°-20°	548.4	45.5
20°-30°	237.0	19.7
30°-40°	54.0	4.5
40°-50°	18.5	1.5
50°-60°	4.5	0.4
60°-70°	1.2	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°	1125.9	93.5
0°-40°	1179.9	98.0
0°-60°	1203.0	99.9
0°-90°	1204.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1204.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3872	3872	3872	3872	3872	
5°	3747	3743	3742	3750	3747	341
15°	2053	2028	2042	2035	2032	550
25°	482	501	544	488	473	231
35°	81	83	78	77	65	55
45°	21	26	26	26	22	15
55°	3	4	6	4	4	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	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3872.3	3872.3	3872.3	3872.3	3872.3
2.5°	3846.7	3844.0	3845.5	3847.4	3848.2
5°	3746.9	3743.3	3742.5	3750.2	3747.0
7.5°	3545.5	3540.4	3532.6	3550.3	3566.8
10°	3208.2	3202.6	3185.6	3194.0	3207.5
12.5°	2710.3	2691.9	2691.5	2718.1	2714.5
15°	2053.1	2028.4	2042.1	2035.4	2031.8
17.5°	1380.6	1371.1	1389.4	1383.8	1360.1
20°	993.2	995.7	1030.5	1013.0	991.8
22.5°	724.7	733.7	774.9	729.9	713.3
25°	482.5	500.8	544.1	488.0	472.6
27.5°	296.8	305.2	349.0	292.9	284.6
30°	184.6	180.4	201.2	172.6	160.8
32.5°	121.1	115.8	122.4	109.9	100.4
35°	81.0	82.7	77.6	77.0	65.0
37.5°	50.6	58.2	51.3	54.8	41.8
40°	32.7	42.2	36.3	40.1	30.8
42.5°	26.8	32.5	29.9	31.7	27.4
45°	21.3	26.4	26.4	26.4	21.5
47.5°	11.8	17.7	22.6	18.0	12.5
50°	6.6	8.9	17.5	9.3	7.0
52.5°	4.6	5.2	12.0	5.3	4.8
55°	3.4	3.6	6.5	3.8	3.6
57.5°	2.6	2.9	3.4	2.9	2.6
60°	2.1	2.1	2.5	2.3	2.1
62.5°	1.5	1.5	1.7	1.5	1.5
65°	1.1	1.1	1.1	1.1	1.1
67.5°	0.6	0.7	0.7	0.7	0.7
70°	0.6	0.4	0.4	0.4	0.6
72.5°	0.4	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

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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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