

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: P778302

Luminaire Tested: LERS4D15D010-EC4DR300215IC9024-4LBS1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P778302  
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-EC4DR300215IC9024-4LBS1LI  
Description: 4 INCH ROUND SHALLOW 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: 1264.5 lumens  
Efficiency: N/A  
Efficacy: 80.0 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



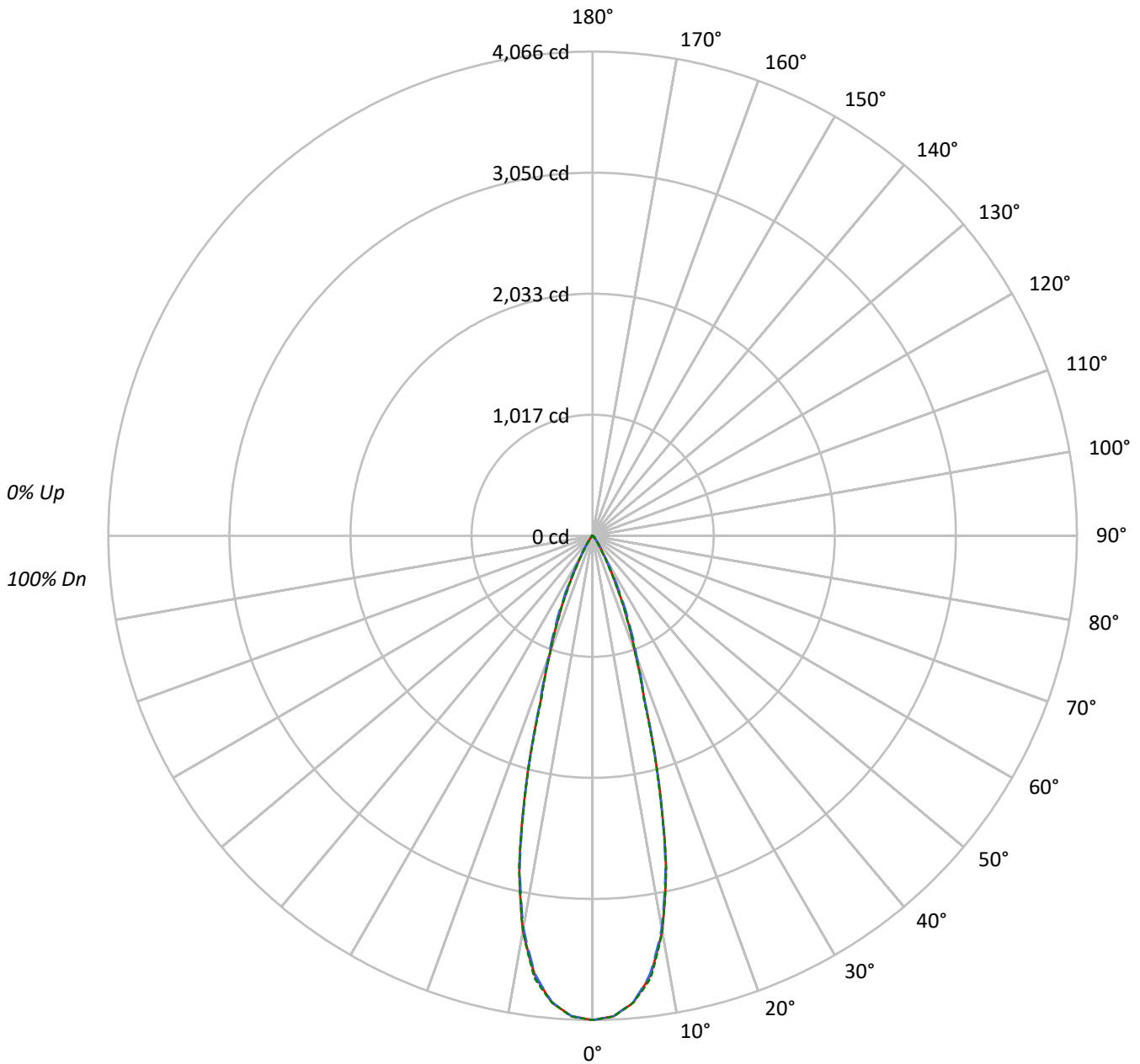
Downlight



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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°	311218	311218	311218
5°	302287	301934	302303
10°	261830	259980	261767
15°	170825	169914	169058
20°	84942	88135	84836
25°	42794	48250	41916
30°	17129	18667	14928
35°	7943	7616	6382
40°	3427	3807	3227
45°	2414	2998	2446
50°	834	2191	881
55°	480	907	507
60°	337	398	337
65°	217	217	217
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: 2998 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	357.5	28.3
10°-20°	575.8	45.5
20°-30°	248.8	19.7
30°-40°	56.7	4.5
40°-50°	19.5	1.5
50°-60°	4.8	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°	1182.2	93.5
0°-40°	1238.9	98.0
0°-60°	1263.1	99.9
0°-90°	1264.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1264.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4066	4066	4066	4066	4066	
5°	3934	3930	3930	3938	3934	358
15°	2156	2130	2144	2137	2133	577
25°	507	526	571	512	496	243
35°	85	87	82	81	68	58
45°	22	28	28	28	23	16
55°	4	4	7	4	4	4
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°	4065.9	4065.9	4065.9	4065.9	4065.9
2.5°	4039.0	4036.2	4037.8	4039.8	4040.6
5°	3934.2	3930.4	3929.6	3937.8	3934.4
7.5°	3722.8	3717.4	3709.2	3727.8	3745.2
10°	3368.7	3362.6	3344.9	3353.7	3367.9
12.5°	2845.8	2826.5	2826.1	2854.0	2850.3
15°	2155.7	2129.8	2144.2	2137.2	2133.4
17.5°	1449.7	1439.7	1458.8	1453.1	1428.1
20°	1042.8	1045.4	1082.0	1063.6	1041.5
22.5°	761.0	770.3	813.6	766.4	749.0
25°	506.7	525.8	571.3	512.4	496.3
27.5°	311.6	320.4	366.5	307.6	298.9
30°	193.8	189.4	211.2	181.3	168.9
32.5°	127.1	121.6	128.6	115.4	105.4
35°	85.0	86.9	81.5	80.8	68.3
37.5°	53.1	61.1	53.9	57.5	43.9
40°	34.3	44.3	38.1	42.1	32.3
42.5°	28.1	34.1	31.3	33.3	28.8
45°	22.3	27.7	27.7	27.7	22.6
47.5°	12.4	18.6	23.8	19.0	13.2
50°	7.0	9.4	18.4	9.8	7.4
52.5°	4.8	5.4	12.6	5.6	5.0
55°	3.6	3.8	6.8	4.0	3.8
57.5°	2.8	3.0	3.6	3.0	2.8
60°	2.2	2.2	2.6	2.4	2.2
62.5°	1.6	1.6	1.8	1.6	1.6
65°	1.2	1.2	1.2	1.2	1.2
67.5°	0.6	0.8	0.8	0.8	0.8
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

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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