

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: P778321

Luminaire Tested: LERS4D15D010-EC4DR300215IC9050-4LBS1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P778321  
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-EC4DR300215IC9050-4LBS1H  
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1479.8 lumens  
Efficiency: N/A  
Efficacy: 93.7 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 (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



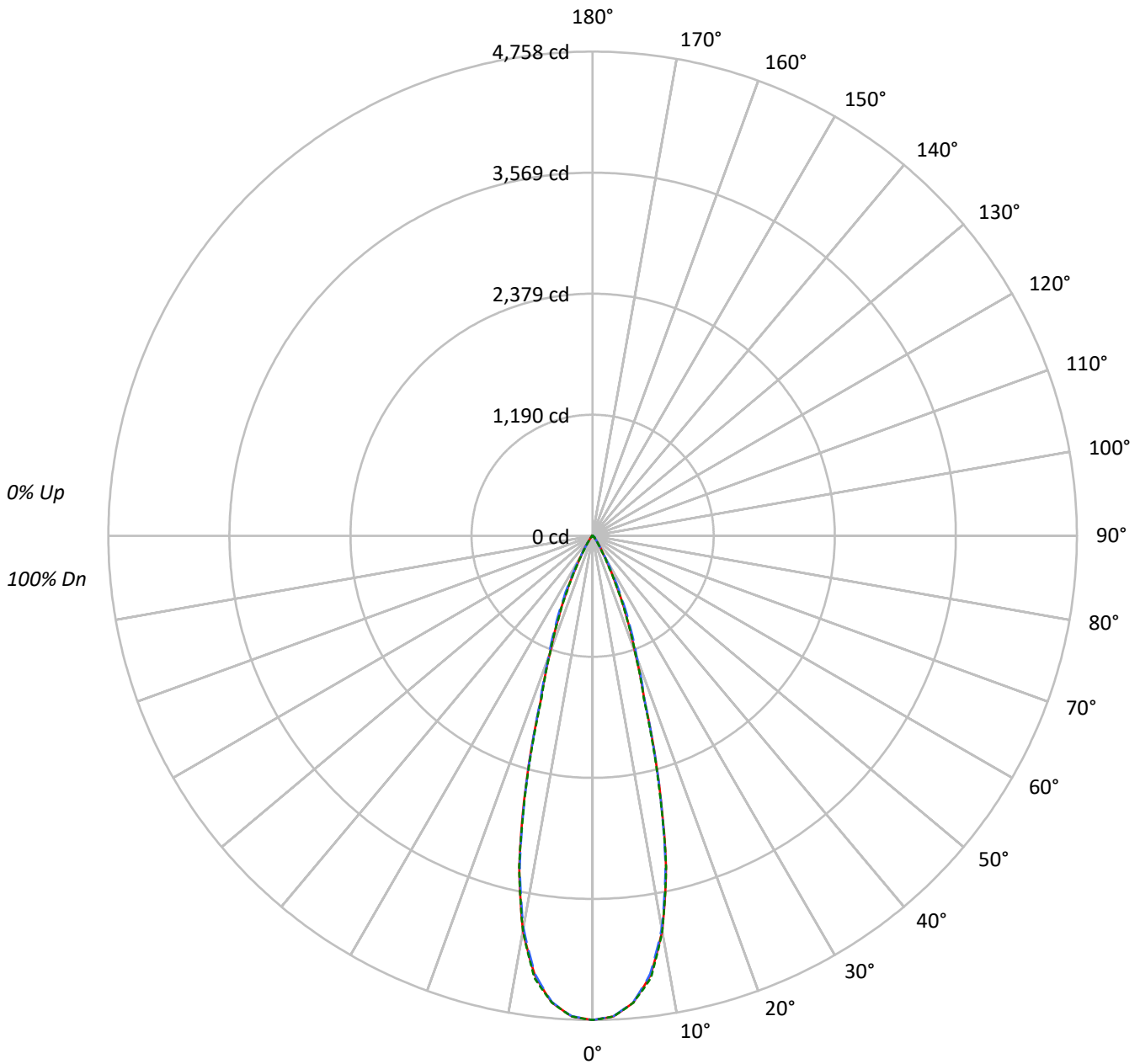
Downlight



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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°	364224	364224	364224
5°	353767	353352	353790
10°	306420	304259	306342
15°	199924	198854	197847
20°	99409	103139	99278
25°	50074	56467	49052
30°	20046	21849	17474
35°	9298	8905	7466
40°	4017	4456	3787
45°	2836	3518	2858
50°	976	2560	1036
55°	560	1068	587
60°	398	459	398
65°	254	254	254
70°	157	112	157
75°	0	59	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 3518 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	418.4	28.3
10°-20°	673.9	45.5
20°-30°	291.2	19.7
30°-40°	66.4	4.5
40°-50°	22.8	1.5
50°-60°	5.6	0.4
60°-70°	1.4	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°	1383.5	93.5
0°-40°	1449.9	98.0
0°-60°	1478.3	99.9
0°-90°	1479.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1479.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4758	4758	4758	4758	4758	
5°	4604	4600	4599	4608	4604	419
15°	2523	2492	2509	2501	2497	676
25°	593	615	669	600	581	284
35°	100	102	95	95	80	68
45°	26	32	32	32	26	19
55°	4	4	8	5	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°	4758.4	4758.4	4758.4	4758.4	4758.4
2.5°	4726.9	4723.6	4725.5	4727.8	4728.8
5°	4604.2	4599.8	4598.8	4608.5	4604.5
7.5°	4356.8	4350.5	4341.0	4362.7	4383.0
10°	3942.4	3935.4	3914.6	3924.9	3941.4
12.5°	3330.5	3307.9	3307.4	3340.1	3335.7
15°	2522.9	2492.5	2509.4	2501.2	2496.7
17.5°	1696.6	1684.9	1707.3	1700.5	1671.4
20°	1220.4	1223.5	1266.2	1244.7	1218.8
22.5°	890.6	901.5	952.2	896.9	876.6
25°	592.9	615.3	668.6	599.7	580.8
27.5°	364.7	374.9	428.9	360.0	349.7
30°	226.8	221.7	247.2	212.1	197.7
32.5°	148.8	142.3	150.5	135.0	123.4
35°	99.5	101.6	95.3	94.6	79.9
37.5°	62.2	71.5	63.1	67.3	51.4
40°	40.2	51.9	44.6	49.3	37.9
42.5°	32.9	39.9	36.7	39.0	33.6
45°	26.2	32.5	32.5	32.5	26.4
47.5°	14.5	21.7	27.8	22.2	15.4
50°	8.2	11.0	21.5	11.5	8.7
52.5°	5.6	6.3	14.7	6.5	5.8
55°	4.2	4.4	8.0	4.7	4.4
57.5°	3.3	3.5	4.2	3.5	3.3
60°	2.6	2.6	3.0	2.8	2.6
62.5°	1.9	1.9	2.1	1.9	1.9
65°	1.4	1.4	1.4	1.4	1.4
67.5°	0.7	0.9	0.9	0.9	0.9
70°	0.7	0.5	0.5	0.5	0.7
72.5°	0.5	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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