

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: P778251

Luminaire Tested: LERS4D15D010-EC4DR1515309050-4LBS1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P778251  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LERS4D15D010-EC4DR1515309050-4LBS1MW  
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1454.0 lumens  
Efficiency: N/A  
Efficacy: 92.0 lumens/watt  
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23  
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')  
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



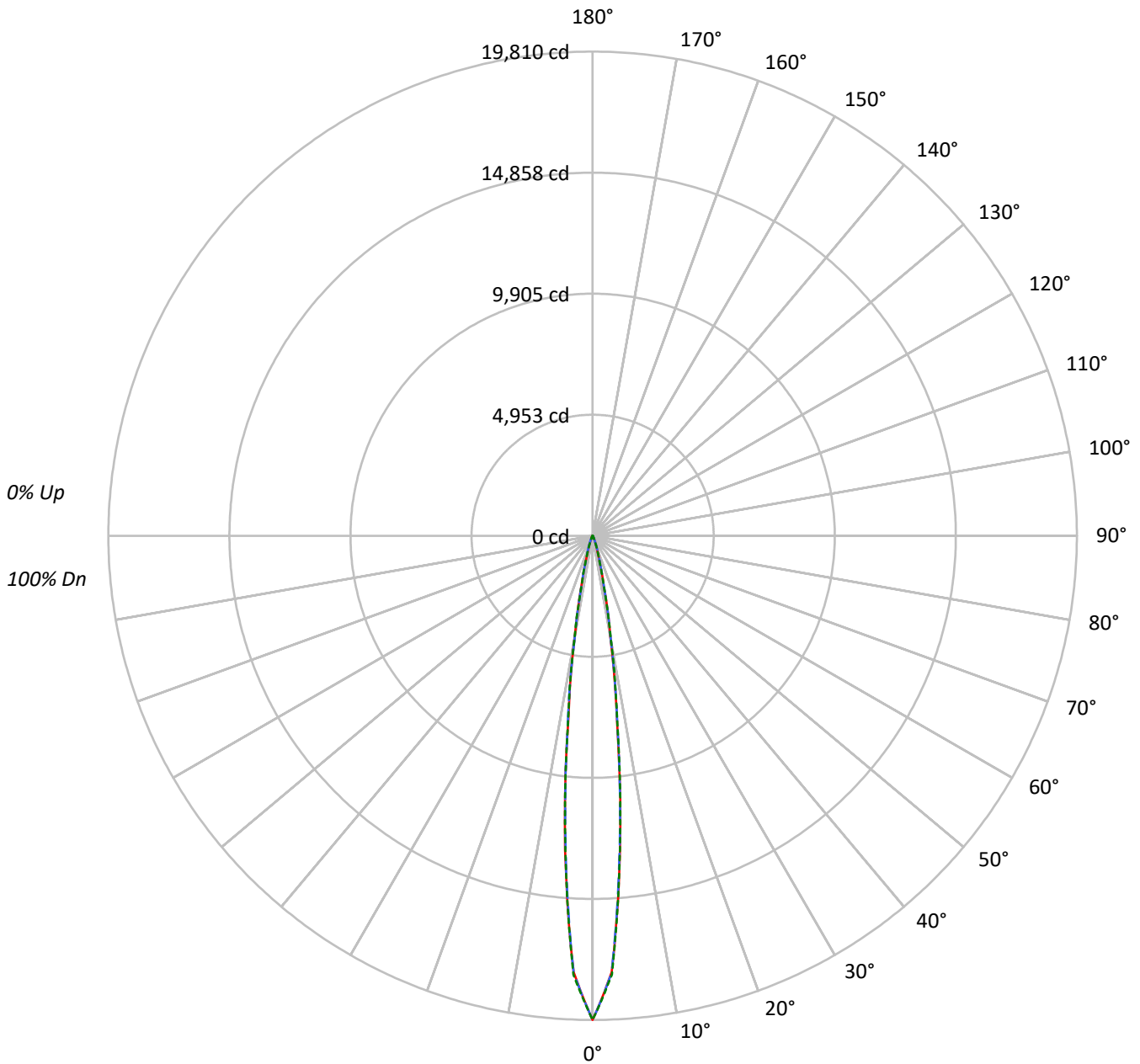
Downlight



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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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98						98													
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96						96													
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94						94													
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93						93													
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92						92													
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90						90													
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89						89													
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88						88													
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87						87													
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86						86													

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2229020	2229020	2229020
5°	1309875	1292913	1303137
10°	390940	393674	399702
15°	97245	99138	96072
20°	29096	33695	29710
25°	10260	13064	10384
30°	3767	4965	3834
35°	1888	2135	1830
40°	1193	1307	1193
45°	882	938	882
50°	702	702	702
55°	585	585	585
60°	470	470	470
65°	357	357	357
70°	307	307	307
75°	189	189	257
80°	134	134	134
85°	66	66	66

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 938 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	943.0	64.9
10°-20°	387.9	26.7
20°-30°	77.0	5.3
30°-40°	19.2	1.3
40°-50°	10.1	0.7
50°-60°	7.5	0.5
60°-70°	5.3	0.4
70°-80°	3.0	0.2
80°-90°	0.9	0.1
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°	1407.9	96.8
0°-40°	1427.1	98.2
0°-60°	1444.7	99.4
0°-90°	1454.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1454.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	19810	19810	19810	19810	19810	
5°	12889	12756	12722	12810	12822	941
15°	1120	1140	1141	1121	1106	384
25°	132	149	168	148	133	69
35°	26	28	29	28	25	18
45°	13	13	13	13	13	10
55°	8	8	8	8	8	7
65°	5	5	5	5	5	5
75°	2	2	2	2	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	19810.0	19810.0	19810.0	19810.0	19810.0
2.5°	17869.4	17884.5	17890.3	17908.0	17973.4
5°	12888.8	12756.3	12721.9	12810.0	12822.5
7.5°	7634.8	7661.7	7759.8	7781.6	7702.8
10°	4189.8	4224.1	4219.1	4249.3	4283.7
12.5°	2142.7	2115.8	2107.5	2141.8	2094.0
15°	1119.6	1140.5	1141.4	1121.2	1106.1
17.5°	602.1	626.5	666.7	634.0	583.7
20°	355.6	377.4	411.8	384.9	363.1
22.5°	219.7	237.3	261.7	240.7	223.1
25°	131.7	149.3	167.7	148.4	133.3
27.5°	78.0	93.1	104.8	92.2	77.2
30°	50.3	58.7	66.3	57.9	51.2
32.5°	35.2	38.6	41.9	38.6	35.2
35°	26.0	27.7	29.4	27.7	25.2
37.5°	20.1	21.8	22.6	21.0	19.3
40°	16.8	17.6	18.4	17.6	16.8
42.5°	14.3	15.1	15.1	15.1	14.3
45°	12.6	12.6	13.4	12.6	12.6
47.5°	10.9	10.9	11.7	10.9	10.9
50°	10.1	10.1	10.1	10.1	10.1
52.5°	9.2	9.2	9.2	9.2	9.2
55°	8.4	8.4	8.4	8.4	8.4
57.5°	7.5	7.5	7.5	7.5	7.5
60°	6.7	6.7	6.7	6.7	6.7
62.5°	5.9	5.9	5.9	5.9	5.9
65°	5.0	5.0	5.0	5.0	5.0
67.5°	5.0	5.0	5.0	5.0	5.0
70°	4.2	4.2	4.2	4.2	4.2
72.5°	3.4	3.4	3.4	3.4	3.4
75°	2.5	2.5	2.5	2.5	3.4
77.5°	2.5	2.5	2.5	2.5	2.5
80°	1.7	1.7	1.7	1.7	1.7
82.5°	1.7	1.7	1.7	1.7	1.7
85°	0.8	0.8	0.8	0.8	0.8
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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