

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: P778246

Luminaire Tested: LERS4D15D010-EC4DR1515309040-4LBS1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P778246  
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-EC4DR1515309040-4LBS1LI  
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1626.2 lumens  
Efficiency: N/A  
Efficacy: 102.9 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 (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

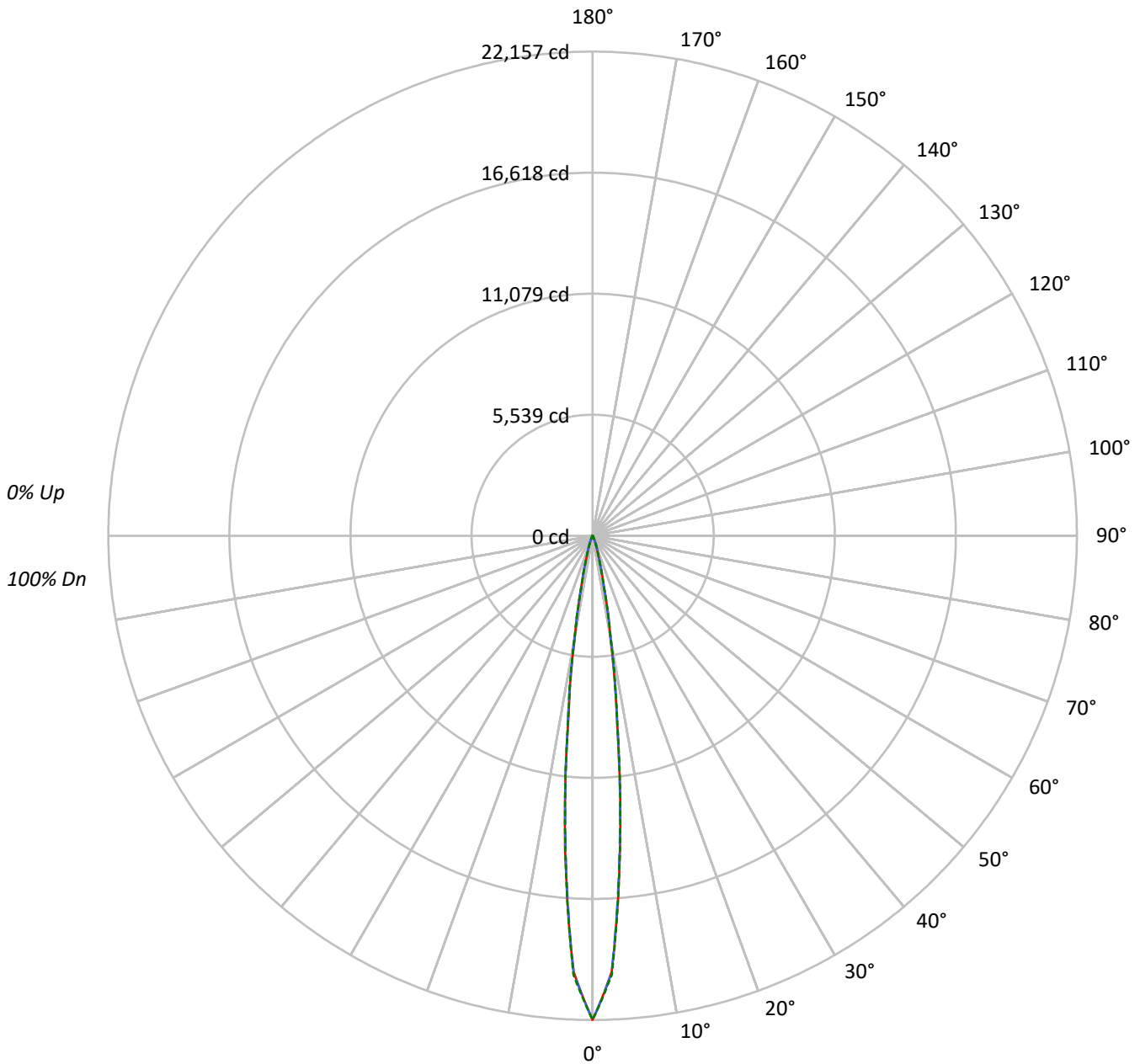


Downlight



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

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

	0°	45°	90°
0°	2493060	2493060	2493060
5°	1465042	1446068	1457511
10°	437249	440309	447046
15°	108762	110881	107459
20°	32541	37679	33228
25°	11475	14614	11615
30°	4216	5549	4283
35°	2113	2382	2041
40°	1335	1463	1335
45°	987	1050	987
50°	786	786	786
55°	654	654	654
60°	527	527	527
65°	400	400	400
70°	344	344	344
75°	212	212	287
80°	150	150	150
85°	75	75	75

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1050 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1054.7	64.9
10°-20°	433.8	26.7
20°-30°	86.2	5.3
30°-40°	21.5	1.3
40°-50°	11.3	0.7
50°-60°	8.4	0.5
60°-70°	5.9	0.4
70°-80°	3.4	0.2
80°-90°	1.0	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°	1574.7	96.8
0°-40°	1596.2	98.2
0°-60°	1615.9	99.4
0°-90°	1626.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1626.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	22157	22157	22157	22157	22157	
5°	14416	14267	14229	14327	14342	1053
15°	1252	1276	1277	1254	1237	429
25°	147	167	188	166	149	77
35°	29	31	33	31	28	20
45°	14	14	15	14	14	11
55°	9	9	9	9	9	8
65°	6	6	6	6	6	6
75°	3	3	3	3	4	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°	22156.6	22156.6	22156.6	22156.6	22156.6
2.5°	19986.1	20003.0	20009.6	20029.3	20102.4
5°	14415.6	14267.4	14228.9	14327.4	14341.5
7.5°	8539.2	8569.2	8679.0	8703.4	8615.2
10°	4686.1	4724.5	4718.9	4752.7	4791.1
12.5°	2396.5	2366.5	2357.1	2395.6	2342.1
15°	1252.2	1275.6	1276.6	1254.1	1237.2
17.5°	673.5	700.7	745.7	709.1	652.8
20°	397.7	422.1	460.5	430.5	406.1
22.5°	245.7	265.4	292.6	269.2	249.5
25°	147.3	167.0	187.6	166.0	149.1
27.5°	87.2	104.1	117.2	103.2	86.3
30°	56.3	65.7	74.1	64.7	57.2
32.5°	39.4	43.1	46.9	43.1	39.4
35°	29.1	31.0	32.8	31.0	28.1
37.5°	22.5	24.4	25.3	23.4	21.6
40°	18.8	19.7	20.6	19.7	18.8
42.5°	15.9	16.9	16.9	16.9	15.9
45°	14.1	14.1	15.0	14.1	14.1
47.5°	12.2	12.2	13.1	12.2	12.2
50°	11.3	11.3	11.3	11.3	11.3
52.5°	10.3	10.3	10.3	10.3	10.3
55°	9.4	9.4	9.4	9.4	9.4
57.5°	8.4	8.4	8.4	8.4	8.4
60°	7.5	7.5	7.5	7.5	7.5
62.5°	6.6	6.6	6.6	6.6	6.6
65°	5.6	5.6	5.6	5.6	5.6
67.5°	5.6	5.6	5.6	5.6	5.6
70°	4.7	4.7	4.7	4.7	4.7
72.5°	3.8	3.8	3.8	3.8	3.8
75°	2.8	2.8	2.8	2.8	3.8
77.5°	2.8	2.8	2.8	2.8	2.8
80°	1.9	1.9	1.9	1.9	1.9
82.5°	1.9	1.9	1.9	1.9	1.9
85°	0.9	0.9	0.9	0.9	0.9
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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