

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: P778245

Luminaire Tested: LERS4D15D010-EC4DR1515309040-4LBS1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P778245  
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-EC4DR1515309040-4LBS1H  
Description: 4 INCH ROUND SHALLOW SEMI-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: 1548.8 lumens  
Efficiency: N/A  
Efficacy: 98.0 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

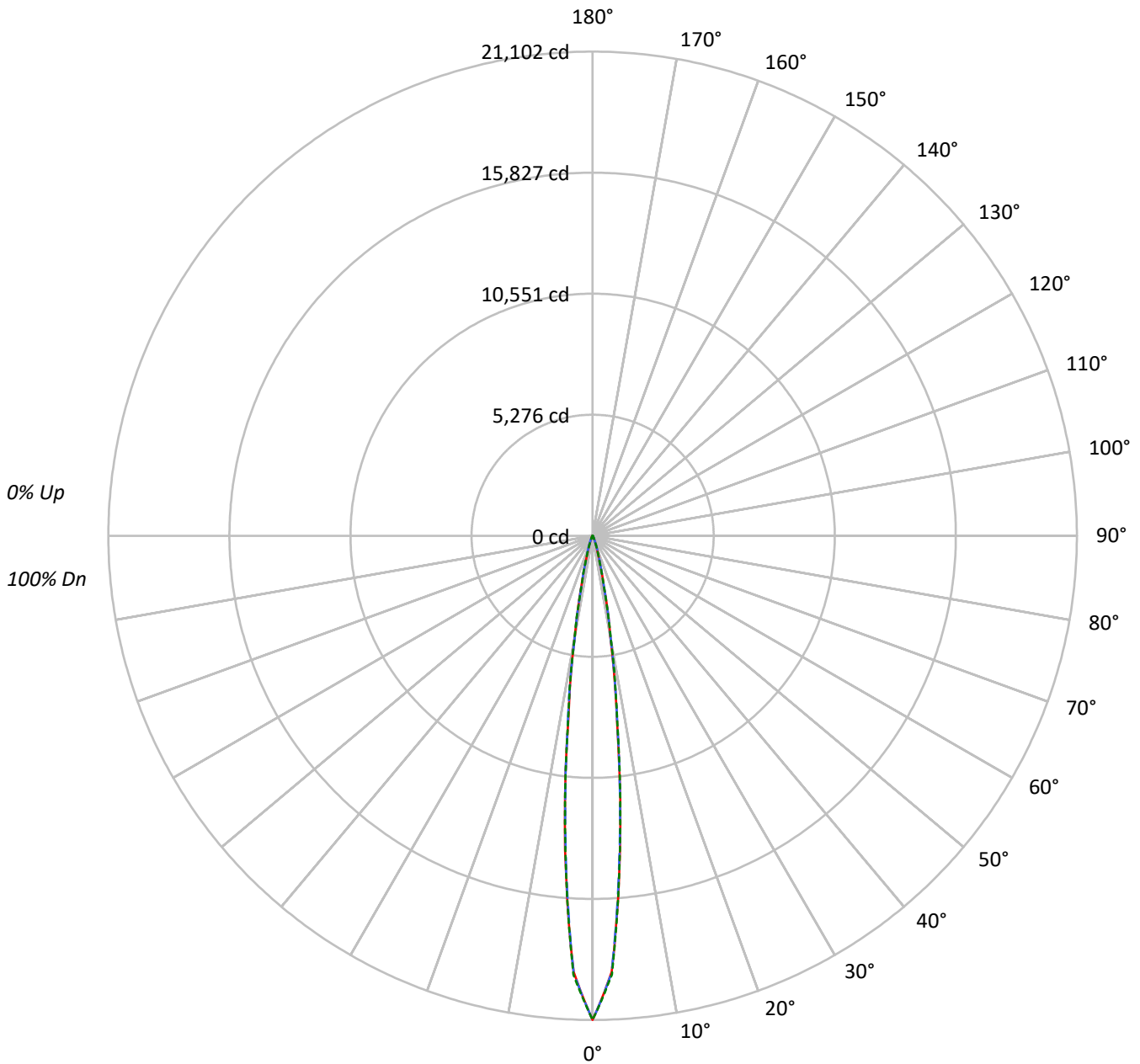


Downlight



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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					70					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	87	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°	2374340	2374340	2374340
5°	1395273	1377204	1388098
10°	416422	419343	425763
15°	103585	105601	102343
20°	30994	35887	31649
25°	10922	13921	11062
30°	4014	5287	4081
35°	2012	2273	1946
40°	1271	1399	1271
45°	938	1001	938
50°	744	744	744
55°	619	619	619
60°	498	498	498
65°	385	385	385
70°	329	329	329
75°	204	204	272
80°	142	142	142
85°	75	75	75

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1001 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1004.5	64.9
10°-20°	413.2	26.7
20°-30°	82.1	5.3
30°-40°	20.5	1.3
40°-50°	10.8	0.7
50°-60°	8.0	0.5
60°-70°	5.7	0.4
70°-80°	3.2	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°	1499.7	96.8
0°-40°	1520.2	98.2
0°-60°	1538.9	99.4
0°-90°	1548.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1548.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	21102	21102	21102	21102	21102	
5°	13729	13588	13551	13645	13658	1003
15°	1193	1215	1216	1194	1178	409
25°	140	159	179	158	142	74
35°	28	30	31	30	27	19
45°	13	13	14	13	13	10
55°	9	9	9	9	9	8
65°	5	5	5	5	5	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°	21101.5	21101.5	21101.5	21101.5	21101.5
2.5°	19034.4	19050.5	19056.7	19075.5	19145.2
5°	13729.1	13588.0	13551.3	13645.1	13658.5
7.5°	8132.6	8161.2	8265.7	8288.9	8205.0
10°	4462.9	4499.5	4494.2	4526.3	4563.0
12.5°	2282.4	2253.8	2244.9	2281.5	2230.6
15°	1192.6	1214.9	1215.8	1194.3	1178.3
17.5°	641.4	667.3	710.2	675.3	621.7
20°	378.8	402.0	438.6	410.0	386.8
22.5°	234.0	252.8	278.7	256.4	237.6
25°	140.2	159.0	178.7	158.1	142.0
27.5°	83.1	99.2	111.7	98.3	82.2
30°	53.6	62.5	70.6	61.6	54.5
32.5°	37.5	41.1	44.7	41.1	37.5
35°	27.7	29.5	31.3	29.5	26.8
37.5°	21.4	23.2	24.1	22.3	20.5
40°	17.9	18.8	19.7	18.8	17.9
42.5°	15.2	16.1	16.1	16.1	15.2
45°	13.4	13.4	14.3	13.4	13.4
47.5°	11.6	11.6	12.5	11.6	11.6
50°	10.7	10.7	10.7	10.7	10.7
52.5°	9.8	9.8	9.8	9.8	9.8
55°	8.9	8.9	8.9	8.9	8.9
57.5°	8.0	8.0	8.0	8.0	8.0
60°	7.1	7.1	7.1	7.1	7.1
62.5°	6.3	6.3	6.3	6.3	6.3
65°	5.4	5.4	5.4	5.4	5.4
67.5°	5.4	5.4	5.4	5.4	5.4
70°	4.5	4.5	4.5	4.5	4.5
72.5°	3.6	3.6	3.6	3.6	3.6
75°	2.7	2.7	2.7	2.7	3.6
77.5°	2.7	2.7	2.7	2.7	2.7
80°	1.8	1.8	1.8	1.8	1.8
82.5°	1.8	1.8	1.8	1.8	1.8
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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(END OF REPORT)