

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: P778312

Luminaire Tested: LERS4D15D010-EC4DR300215IC9035-4LBS1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P778312  
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-EC4DR300215IC9035-4LBS1B  
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1366.2 lumens  
Efficiency: N/A  
Efficacy: 86.5 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



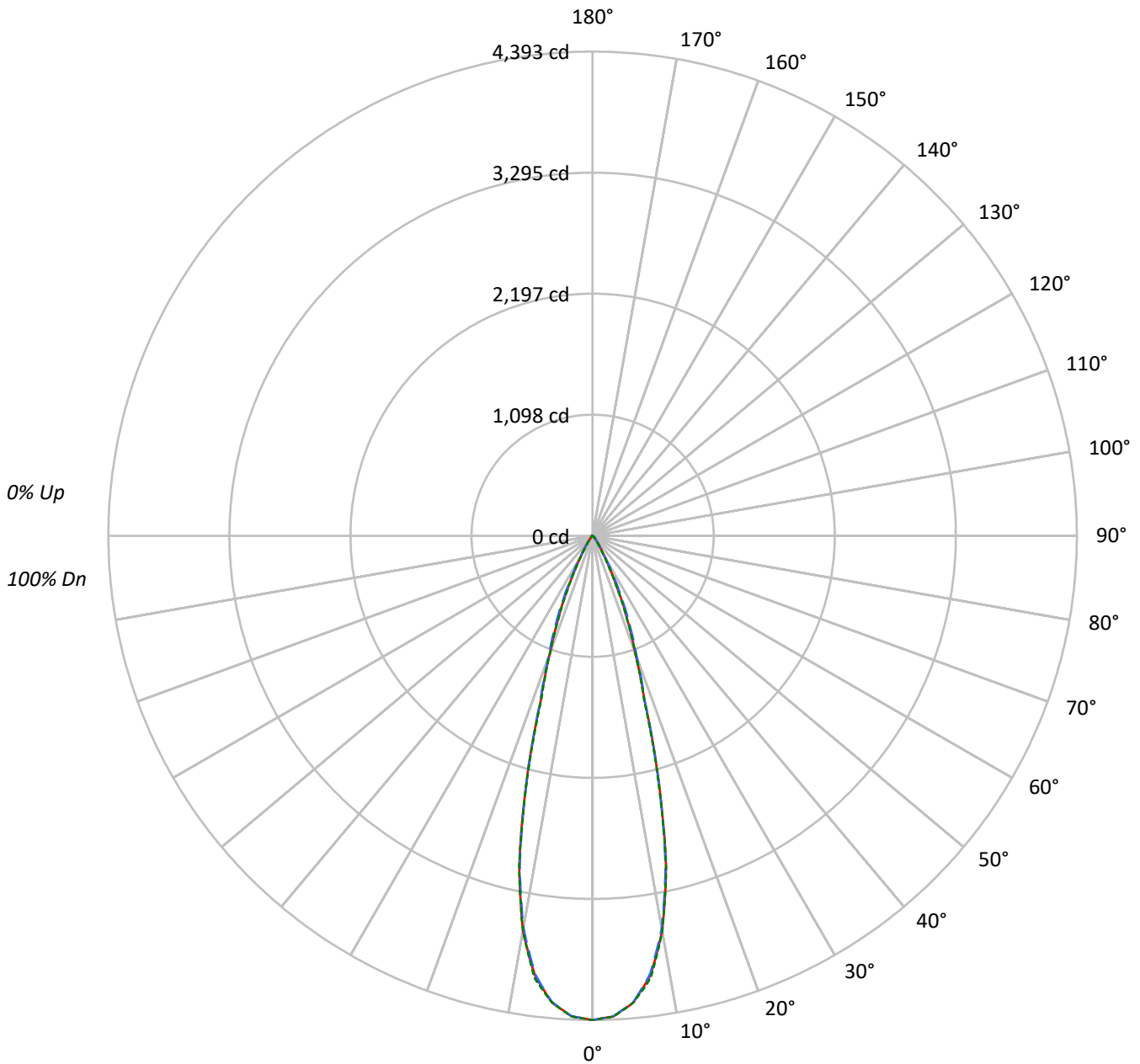
Downlight



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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																			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

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

	0°	45°	90°
0°	336270	336270	336270
5°	326614	326237	326637
10°	282901	280903	282831
15°	184574	183584	182664
20°	91784	95222	91662
25°	46231	52135	45285
30°	18508	20169	16130
35°	8587	8223	6887
40°	3707	4117	3487
45°	2620	3247	2641
50°	905	2358	953
55°	520	974	547
60°	352	429	352
65°	235	235	235
70°	134	112	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: 3247 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	386.3	28.3
10°-20°	622.2	45.5
20°-30°	268.8	19.7
30°-40°	61.3	4.5
40°-50°	21.0	1.5
50°-60°	5.1	0.4
60°-70°	1.3	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°	1277.3	93.5
0°-40°	1338.6	98.0
0°-60°	1364.8	99.9
0°-90°	1366.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1366.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4393	4393	4393	4393	4393	
5°	4251	4247	4246	4255	4251	387
15°	2329	2301	2317	2309	2305	624
25°	547	568	617	554	536	262
35°	92	94	88	87	74	62
45°	24	30	30	30	24	17
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°	4393.2	4393.2	4393.2	4393.2	4393.2
2.5°	4364.1	4361.0	4362.8	4364.9	4365.8
5°	4250.8	4246.7	4245.9	4254.7	4251.1
7.5°	4022.4	4016.6	4007.7	4027.8	4046.6
10°	3639.8	3633.3	3614.1	3623.6	3638.9
12.5°	3074.9	3053.9	3053.5	3083.7	3079.6
15°	2329.2	2301.2	2316.7	2309.2	2305.1
17.5°	1566.3	1555.6	1576.2	1570.0	1543.1
20°	1126.8	1129.6	1169.0	1149.2	1125.3
22.5°	822.2	832.3	879.1	828.0	809.3
25°	547.4	568.1	617.3	553.7	536.2
27.5°	336.7	346.2	396.0	332.4	322.9
30°	209.4	204.7	228.2	195.8	182.5
32.5°	137.4	131.4	138.9	124.7	113.9
35°	91.9	93.8	88.0	87.4	73.7
37.5°	57.4	66.0	58.2	62.1	47.4
40°	37.1	47.9	41.2	45.5	34.9
42.5°	30.4	36.9	33.9	36.0	31.1
45°	24.2	30.0	30.0	30.0	24.4
47.5°	13.3	20.1	25.7	20.5	14.2
50°	7.6	10.1	19.8	10.5	8.0
52.5°	5.2	5.8	13.6	6.0	5.4
55°	3.9	4.1	7.3	4.3	4.1
57.5°	3.0	3.2	3.9	3.2	3.0
60°	2.3	2.3	2.8	2.6	2.3
62.5°	1.7	1.7	1.9	1.7	1.7
65°	1.3	1.3	1.3	1.3	1.3
67.5°	0.6	0.9	0.9	0.9	0.9
70°	0.6	0.5	0.5	0.5	0.6
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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