

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: P777627

Luminaire Tested: LERS4D08D010-EC4DR150210IC9050-4LBS1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P777627  
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: LERS4D08D010-EC4DR150210IC9050-4LBS1MW  
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: 809.4 lumens  
Efficiency: N/A  
Efficacy: 90.9 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): 8.9  
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



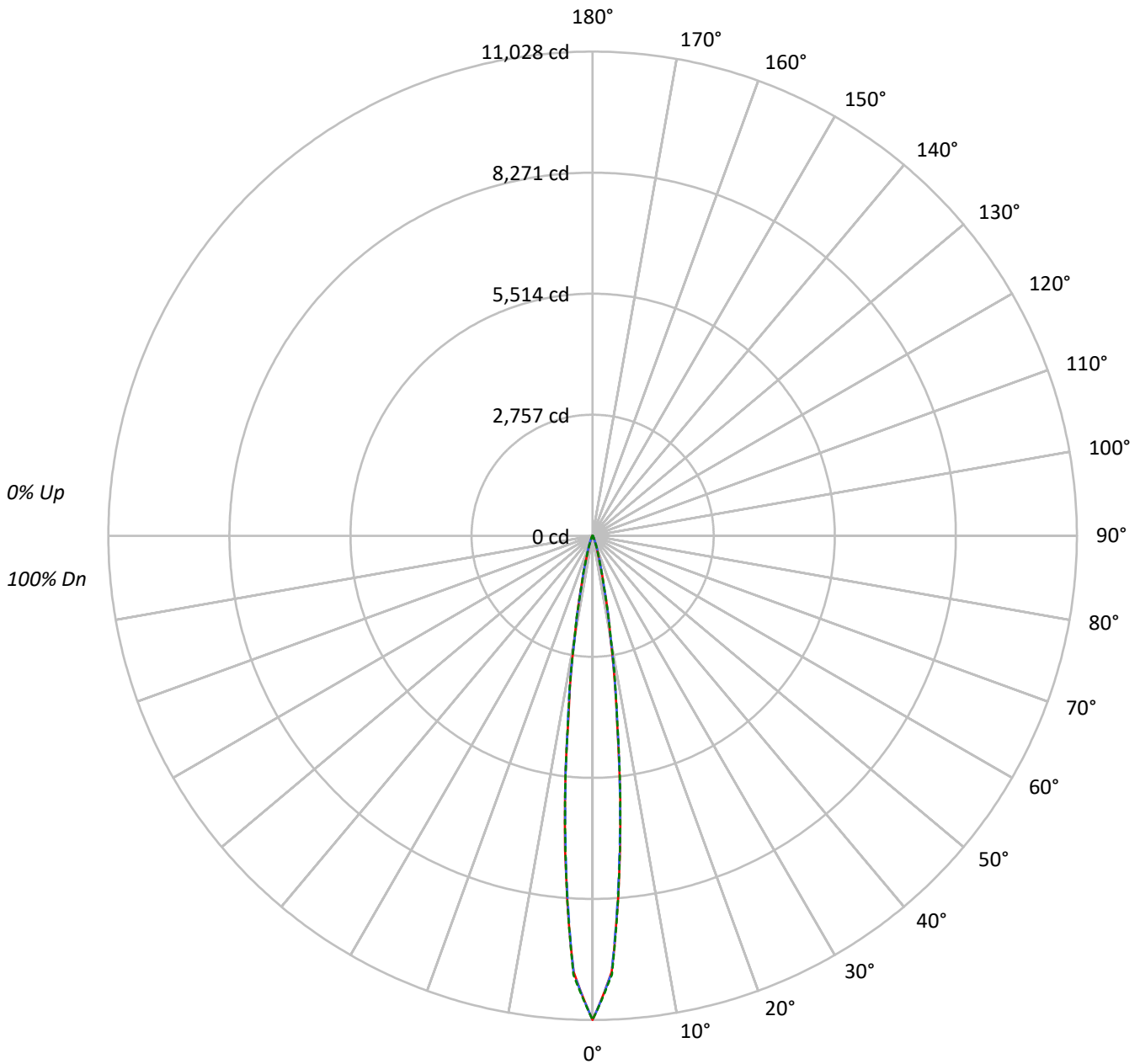
Downlight



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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°	1240825	1240825	1240825
5°	729167	719726	725417
10°	217621	219152	222501
15°	54129	55189	53486
20°	16193	18754	16536
25°	5710	7276	5780
30°	2097	2763	2134
35°	1053	1184	1017
40°	660	731	660
45°	490	525	490
50°	389	389	389
55°	327	327	327
60°	260	260	260
65°	200	200	200
70°	168	168	168
75°	106	106	144
80°	71	71	71
85°	42	42	42

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 525 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	524.9	64.9
10°-20°	215.9	26.7
20°-30°	42.9	5.3
30°-40°	10.7	1.3
40°-50°	5.6	0.7
50°-60°	4.2	0.5
60°-70°	2.9	0.4
70°-80°	1.7	0.2
80°-90°	0.5	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°	783.7	96.8
0°-40°	794.4	98.2
0°-60°	804.2	99.4
0°-90°	809.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	809.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11028	11028	11028	11028	11028	
5°	7175	7101	7082	7131	7138	524
15°	623	635	635	624	616	214
25°	73	83	93	83	74	38
35°	14	15	16	15	14	10
45°	7	7	8	7	7	5
55°	5	5	5	5	5	4
65°	3	3	3	3	3	3
75°	1	1	1	1	2	2
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11027.6	11027.6	11027.6	11027.6	11027.6
2.5°	9947.4	9955.8	9959.0	9968.8	10005.3
5°	7174.8	7101.1	7081.9	7130.9	7137.9
7.5°	4250.1	4265.0	4319.6	4331.8	4287.9
10°	2332.3	2351.5	2348.7	2365.5	2384.6
12.5°	1192.8	1177.8	1173.2	1192.3	1165.7
15°	623.2	634.9	635.4	624.2	615.8
17.5°	335.2	348.7	371.1	352.9	324.9
20°	197.9	210.1	229.2	214.3	202.1
22.5°	122.3	132.1	145.7	134.0	124.2
25°	73.3	83.1	93.4	82.6	74.2
27.5°	43.4	51.8	58.4	51.4	42.9
30°	28.0	32.7	36.9	32.2	28.5
32.5°	19.6	21.5	23.3	21.5	19.6
35°	14.5	15.4	16.3	15.4	14.0
37.5°	11.2	12.1	12.6	11.7	10.7
40°	9.3	9.8	10.3	9.8	9.3
42.5°	7.9	8.4	8.4	8.4	7.9
45°	7.0	7.0	7.5	7.0	7.0
47.5°	6.1	6.1	6.5	6.1	6.1
50°	5.6	5.6	5.6	5.6	5.6
52.5°	5.1	5.1	5.1	5.1	5.1
55°	4.7	4.7	4.7	4.7	4.7
57.5°	4.2	4.2	4.2	4.2	4.2
60°	3.7	3.7	3.7	3.7	3.7
62.5°	3.3	3.3	3.3	3.3	3.3
65°	2.8	2.8	2.8	2.8	2.8
67.5°	2.8	2.8	2.8	2.8	2.8
70°	2.3	2.3	2.3	2.3	2.3
72.5°	1.9	1.9	1.9	1.9	1.9
75°	1.4	1.4	1.4	1.4	1.9
77.5°	1.4	1.4	1.4	1.4	1.4
80°	0.9	0.9	0.9	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.5	0.5	0.5	0.5	0.5
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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