

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P777625

Luminaire Tested: LERS4D08D010-EC4DR150210IC9050-4LBS1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P777625  
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-EC4DR150210IC9050-4LBS1H  
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 852.0 lumens  
Efficiency: N/A  
Efficacy: 95.7 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 (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



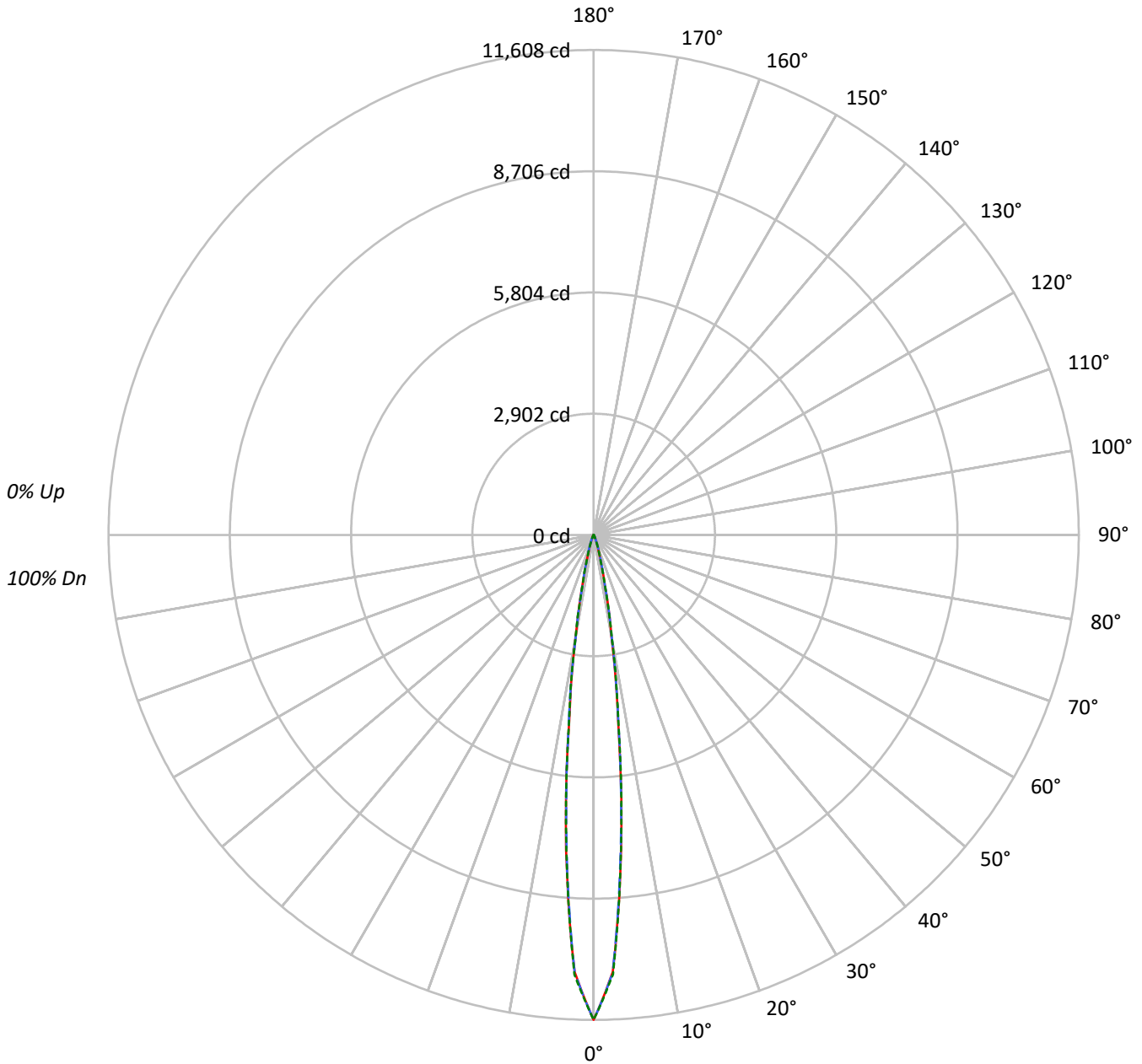
Downlight



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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°	1306143	1306143	1306143
5°	767552	757613	763609
10°	229079	230684	234211
15°	56978	58090	56301
20°	17052	19744	17412
25°	6014	7658	6084
30°	2209	2905	2246
35°	1104	1249	1068
40°	696	767	696
45°	518	553	518
50°	410	410	410
55°	341	341	341
60°	274	274	274
65°	207	207	207
70°	183	183	183
75°	113	113	151
80°	79	79	79
85°	42	42	42

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 553 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	552.6	64.9
10°-20°	227.3	26.7
20°-30°	45.1	5.3
30°-40°	11.3	1.3
40°-50°	5.9	0.7
50°-60°	4.4	0.5
60°-70°	3.1	0.4
70°-80°	1.8	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°	825.0	96.8
0°-40°	836.3	98.2
0°-60°	846.6	99.4
0°-90°	852.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	852.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11608	11608	11608	11608	11608	
5°	7552	7475	7455	7506	7514	552
15°	656	668	669	657	648	225
25°	77	88	98	87	78	41
35°	15	16	17	16	15	10
45°	7	7	8	7	7	6
55°	5	5	5	5	5	4
65°	3	3	3	3	3	3
75°	2	2	2	2	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°	11608.1	11608.1	11608.1	11608.1	11608.1
2.5°	10471.0	10479.8	10483.2	10493.6	10531.9
5°	7552.5	7474.8	7454.7	7506.3	7513.7
7.5°	4473.8	4489.5	4547.0	4559.8	4513.6
10°	2455.1	2475.2	2472.3	2490.0	2510.1
12.5°	1255.6	1239.8	1234.9	1255.1	1227.1
15°	656.0	668.3	668.8	657.0	648.2
17.5°	352.8	367.1	390.7	371.5	342.0
20°	208.4	221.1	241.3	225.6	212.8
22.5°	128.7	139.1	153.3	141.0	130.7
25°	77.2	87.5	98.3	87.0	78.1
27.5°	45.7	54.5	61.4	54.1	45.2
30°	29.5	34.4	38.8	33.9	30.0
32.5°	20.6	22.6	24.6	22.6	20.6
35°	15.2	16.2	17.2	16.2	14.7
37.5°	11.8	12.8	13.3	12.3	11.3
40°	9.8	10.3	10.8	10.3	9.8
42.5°	8.4	8.8	8.8	8.8	8.4
45°	7.4	7.4	7.9	7.4	7.4
47.5°	6.4	6.4	6.9	6.4	6.4
50°	5.9	5.9	5.9	5.9	5.9
52.5°	5.4	5.4	5.4	5.4	5.4
55°	4.9	4.9	4.9	4.9	4.9
57.5°	4.4	4.4	4.4	4.4	4.4
60°	3.9	3.9	3.9	3.9	3.9
62.5°	3.4	3.4	3.4	3.4	3.4
65°	2.9	2.9	2.9	2.9	2.9
67.5°	2.9	2.9	2.9	2.9	2.9
70°	2.5	2.5	2.5	2.5	2.5
72.5°	2.0	2.0	2.0	2.0	2.0
75°	1.5	1.5	1.5	1.5	2.0
77.5°	1.5	1.5	1.5	1.5	1.5
80°	1.0	1.0	1.0	1.0	1.0
82.5°	1.0	1.0	1.0	1.0	1.0
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

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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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(END OF REPORT)