

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: P740884

Luminaire Tested: LD4D08D010-EU4DR150210IC9030-4LBS1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P740884  
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: LD4D08D010-EU4DR150210IC9030-4LBS1LI  
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 834.5 lumens  
Efficiency: N/A  
Efficacy: 93.8 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



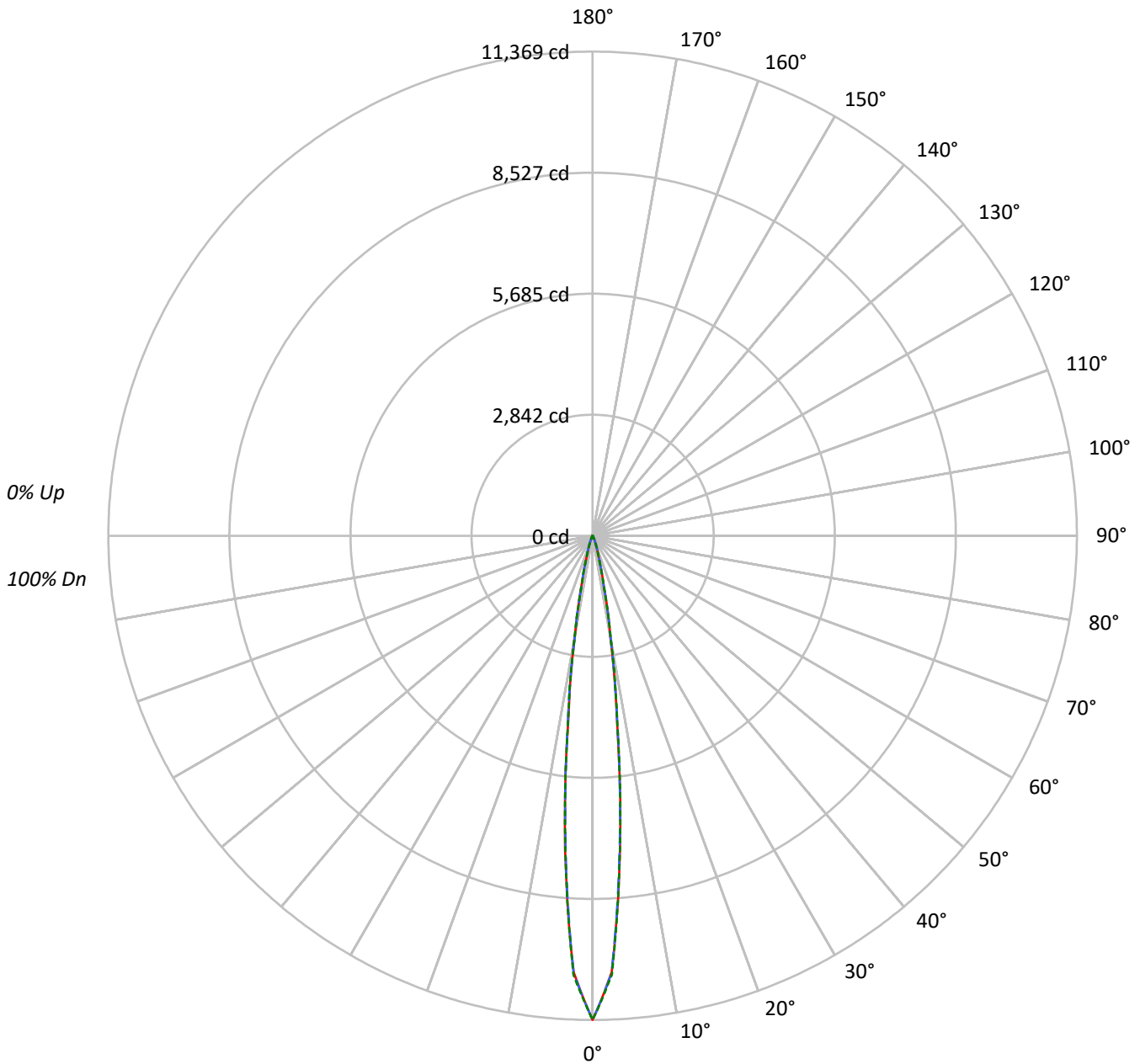
Downlight



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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	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°	1279251	1279251	1279251
5°	751749	742013	747887
10°	224358	225935	229387
15°	55806	56891	55137
20°	16700	19335	17052
25°	5889	7502	5959
30°	2164	2845	2202
35°	1082	1220	1046
40°	682	753	682
45°	504	539	504
50°	403	403	403
55°	334	334	334
60°	274	274	274
65°	207	207	207
70°	176	176	176
75°	106	106	144
80°	79	79	79
85°	42	42	42

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 539 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	541.2	64.9
10°-20°	222.6	26.7
20°-30°	44.2	5.3
30°-40°	11.0	1.3
40°-50°	5.8	0.7
50°-60°	4.3	0.5
60°-70°	3.1	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°	808.0	96.8
0°-40°	819.0	98.2
0°-60°	829.2	99.4
0°-90°	834.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	834.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11369	11369	11369	11369	11369	
5°	7397	7321	7301	7352	7359	540
15°	642	655	655	644	635	220
25°	76	86	96	85	76	40
35°	15	16	17	16	14	10
45°	7	7	8	7	7	6
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°	11369.1	11369.1	11369.1	11369.1	11369.1
2.5°	10255.4	10264.0	10267.4	10277.5	10315.1
5°	7397.0	7320.9	7301.2	7351.7	7359.0
7.5°	4381.7	4397.1	4453.4	4465.9	4420.7
10°	2404.5	2424.3	2421.4	2438.7	2458.4
12.5°	1229.7	1214.3	1209.5	1229.2	1201.8
15°	642.5	654.6	655.0	643.5	634.8
17.5°	345.6	359.5	382.6	363.9	335.0
20°	204.1	216.6	236.3	220.9	208.4
22.5°	126.1	136.2	150.2	138.1	128.0
25°	75.6	85.7	96.3	85.2	76.5
27.5°	44.8	53.4	60.2	52.9	44.3
30°	28.9	33.7	38.0	33.2	29.4
32.5°	20.2	22.1	24.1	22.1	20.2
35°	14.9	15.9	16.8	15.9	14.4
37.5°	11.6	12.5	13.0	12.0	11.1
40°	9.6	10.1	10.6	10.1	9.6
42.5°	8.2	8.7	8.7	8.7	8.2
45°	7.2	7.2	7.7	7.2	7.2
47.5°	6.3	6.3	6.7	6.3	6.3
50°	5.8	5.8	5.8	5.8	5.8
52.5°	5.3	5.3	5.3	5.3	5.3
55°	4.8	4.8	4.8	4.8	4.8
57.5°	4.3	4.3	4.3	4.3	4.3
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°	2.4	2.4	2.4	2.4	2.4
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°	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



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Scaled Data Report







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

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(END OF REPORT)