

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: P741085

Luminaire Tested: LD4D08D010-EU4DR300210IC9024-4LBCSSQMW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P741085  
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: LD4D08D010-EU4DR300210IC9024-4LBCSSQMW  
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 581.7 lumens  
Efficiency: N/A  
Efficacy: 65.4 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): 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



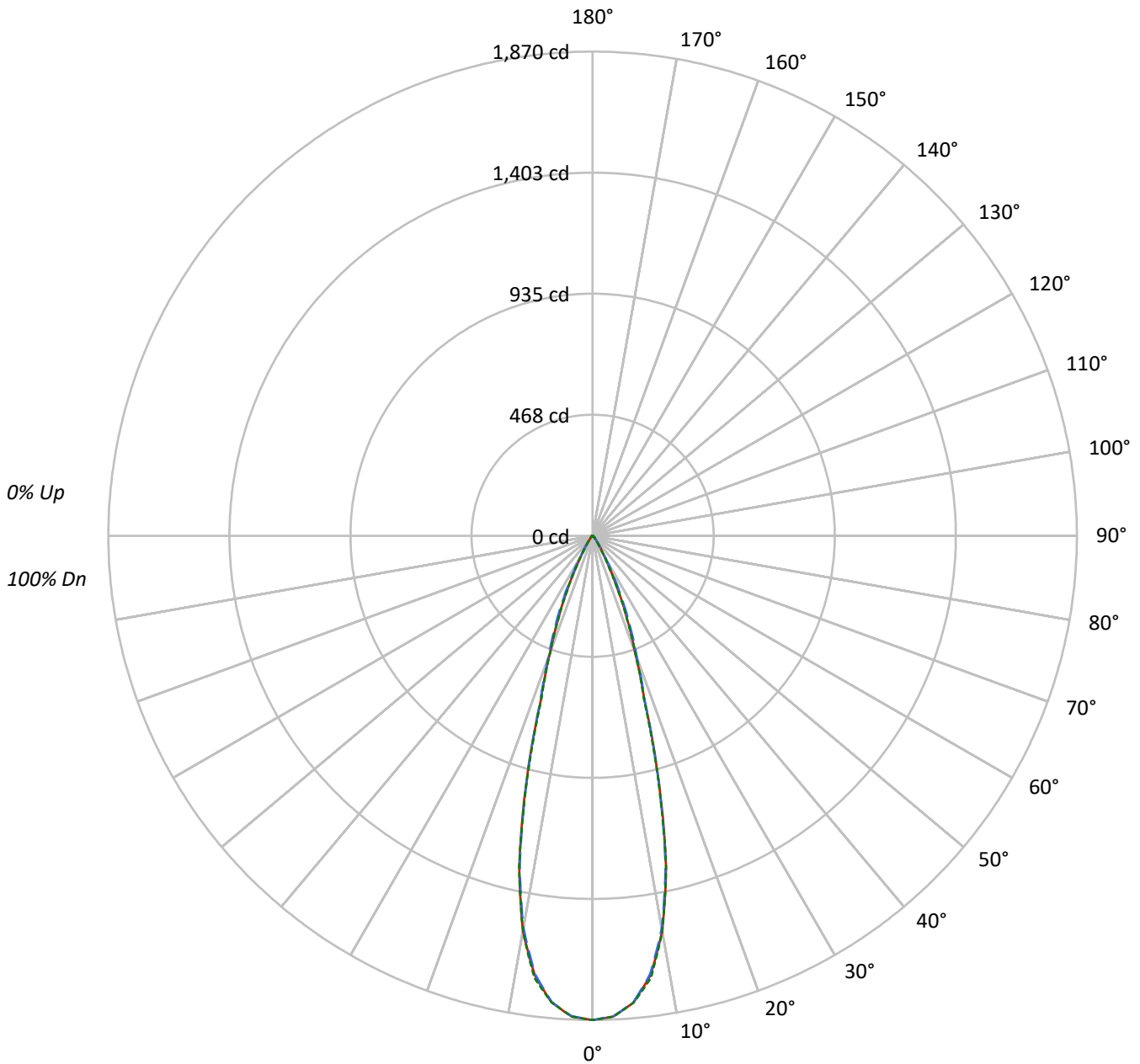
Downlight



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

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

	0°	45°	90°
0°	143159	143159	143159
5°	139050	138888	139057
10°	120441	119594	120410
15°	78586	78158	77770
20°	39074	40541	39017
25°	19687	22195	19281
30°	7884	8591	6867
35°	3654	3504	2934
40°	1579	1749	1489
45°	1115	1386	1126
50°	381	1000	405
55°	227	414	227
60°	153	184	153
65°	109	109	109
70°	67	45	67
75°	0	30	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 1386 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.5	28.3
10°-20°	264.9	45.5
20°-30°	114.5	19.7
30°-40°	26.1	4.5
40°-50°	9.0	1.5
50°-60°	2.2	0.4
60°-70°	0.6	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°	543.8	93.5
0°-40°	569.9	98.0
0°-60°	581.0	99.9
0°-90°	581.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	581.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1870	1870	1870	1870	1870	
5°	1810	1808	1808	1811	1810	165
15°	992	980	986	983	981	266
25°	233	242	263	236	228	112
35°	39	40	38	37	31	27
45°	10	13	13	13	10	7
55°	2	2	3	2	2	2
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	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1870.3	1870.3	1870.3	1870.3	1870.3
2.5°	1858.0	1856.6	1857.4	1858.3	1858.7
5°	1809.7	1808.0	1807.6	1811.4	1809.8
7.5°	1712.5	1710.0	1706.2	1714.8	1722.8
10°	1549.6	1546.9	1538.7	1542.7	1549.2
12.5°	1309.1	1300.2	1300.0	1312.9	1311.1
15°	991.7	979.7	986.3	983.1	981.4
17.5°	666.9	662.3	671.1	668.4	656.9
20°	479.7	480.9	497.7	489.2	479.0
22.5°	350.1	354.4	374.3	352.5	344.5
25°	233.1	241.9	262.8	235.7	228.3
27.5°	143.4	147.4	168.6	141.5	137.5
30°	89.2	87.1	97.2	83.4	77.7
32.5°	58.5	55.9	59.1	53.1	48.5
35°	39.1	39.9	37.5	37.2	31.4
37.5°	24.4	28.1	24.8	26.5	20.2
40°	15.8	20.4	17.5	19.4	14.9
42.5°	12.9	15.7	14.4	15.4	13.2
45°	10.3	12.8	12.8	12.8	10.4
47.5°	5.7	8.5	10.9	8.7	6.1
50°	3.2	4.3	8.4	4.5	3.4
52.5°	2.2	2.5	5.8	2.6	2.3
55°	1.7	1.7	3.1	1.8	1.7
57.5°	1.3	1.4	1.7	1.4	1.3
60°	1.0	1.0	1.2	1.1	1.0
62.5°	0.7	0.7	0.8	0.7	0.7
65°	0.6	0.6	0.6	0.6	0.6
67.5°	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.2	0.2	0.2	0.3
72.5°	0.2	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	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

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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)