

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: P738823

Luminaire Tested: LD4D02D010-EU4DR150210IC9024-4LBCSSQMW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P738823  
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: LD4D02D010-EU4DR150210IC9024-4LBCSSQMW  
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 289.2 lumens  
Efficiency: N/A  
Efficacy: 56.7 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): 5.1  
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



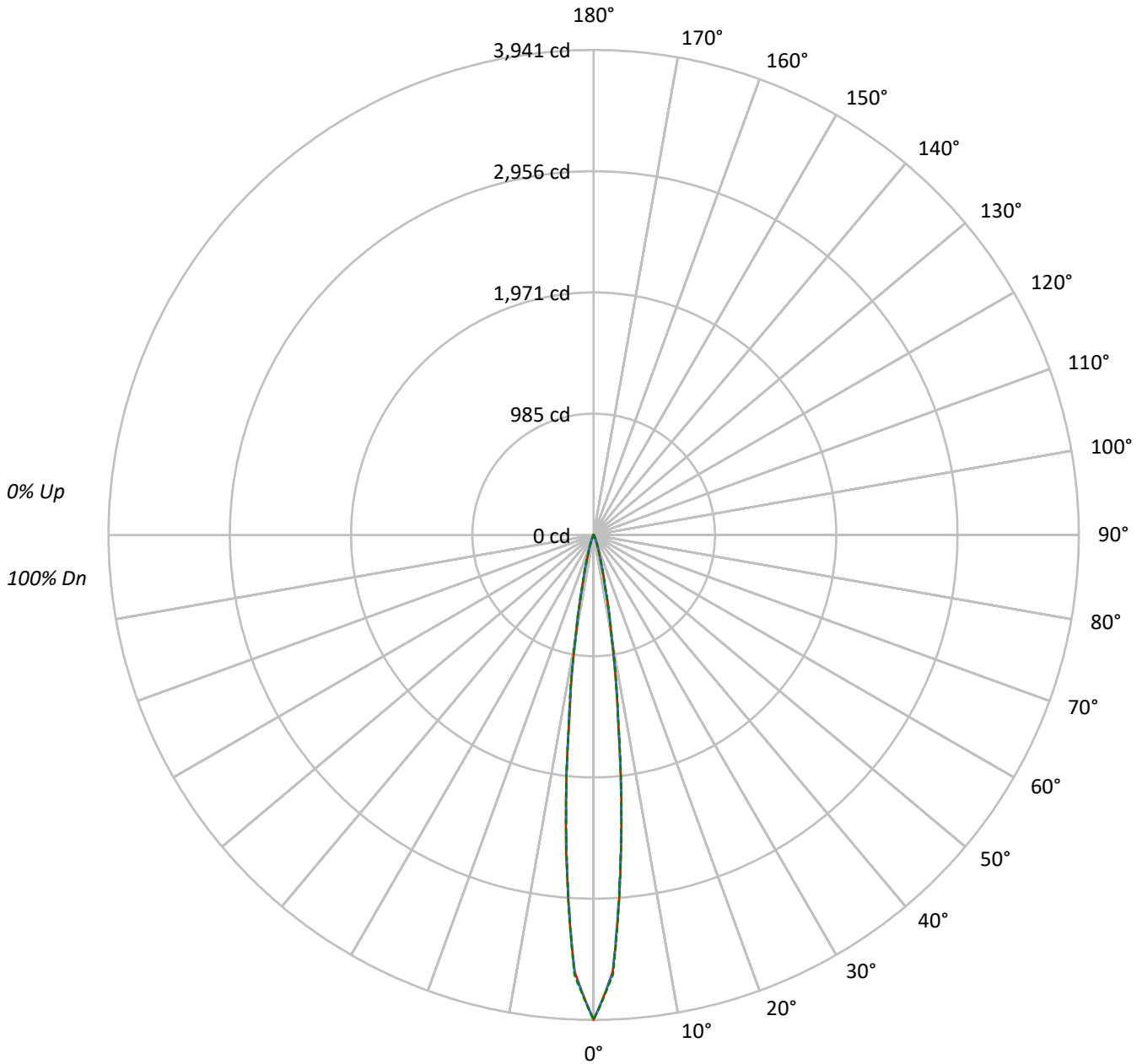
Downlight



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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°	443396	443396	443396
5°	260556	257182	259225
10°	77763	78313	79507
15°	19343	19717	19109
20°	5785	6701	5908
25°	2041	2602	2064
30°	749	988	764
35°	378	421	363
40°	234	263	234
45°	175	189	175
50°	139	139	139
55°	118	118	118
60°	91	91	91
65°	71	71	71
70°	59	59	59
75°	38	38	53
80°	24	24	24
85°	17	17	17

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 189 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.6	64.9
10°-20°	77.2	26.7
20°-30°	15.3	5.3
30°-40°	3.8	1.3
40°-50°	2.0	0.7
50°-60°	1.5	0.5
60°-70°	1.1	0.4
70°-80°	0.6	0.2
80°-90°	0.2	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°	280.1	96.8
0°-40°	283.9	98.2
0°-60°	287.4	99.4
0°-90°	289.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	289.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3941	3941	3941	3941	3941	
5°	2564	2538	2531	2548	2551	187
15°	223	227	227	223	220	76
25°	26	30	33	30	26	14
35°	5	6	6	6	5	4
45°	2	2	3	2	2	2
55°	2	2	2	2	2	1
65°	1	1	1	1	1	1
75°	0	0	0	0	1	1
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°	3940.6	3940.6	3940.6	3940.6	3940.6
2.5°	3554.6	3557.6	3558.7	3562.2	3575.3
5°	2563.8	2537.5	2530.6	2548.2	2550.7
7.5°	1518.7	1524.1	1543.6	1547.9	1532.2
10°	833.4	840.3	839.3	845.3	852.1
12.5°	426.2	420.9	419.2	426.1	416.5
15°	222.7	226.9	227.0	223.0	220.0
17.5°	119.8	124.6	132.6	126.1	116.1
20°	70.7	75.1	81.9	76.6	72.2
22.5°	43.7	47.2	52.0	47.9	44.4
25°	26.2	29.7	33.4	29.5	26.5
27.5°	15.5	18.5	20.9	18.4	15.3
30°	10.0	11.7	13.2	11.5	10.2
32.5°	7.0	7.7	8.3	7.7	7.0
35°	5.2	5.5	5.8	5.5	5.0
37.5°	4.0	4.3	4.5	4.2	3.8
40°	3.3	3.5	3.7	3.5	3.3
42.5°	2.8	3.0	3.0	3.0	2.8
45°	2.5	2.5	2.7	2.5	2.5
47.5°	2.2	2.2	2.3	2.2	2.2
50°	2.0	2.0	2.0	2.0	2.0
52.5°	1.8	1.8	1.8	1.8	1.8
55°	1.7	1.7	1.7	1.7	1.7
57.5°	1.5	1.5	1.5	1.5	1.5
60°	1.3	1.3	1.3	1.3	1.3
62.5°	1.2	1.2	1.2	1.2	1.2
65°	1.0	1.0	1.0	1.0	1.0
67.5°	1.0	1.0	1.0	1.0	1.0
70°	0.8	0.8	0.8	0.8	0.8
72.5°	0.7	0.7	0.7	0.7	0.7
75°	0.5	0.5	0.5	0.5	0.7
77.5°	0.5	0.5	0.5	0.5	0.5
80°	0.3	0.3	0.3	0.3	0.3
82.5°	0.3	0.3	0.3	0.3	0.3
85°	0.2	0.2	0.2	0.2	0.2
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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