

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: P738828

Luminaire Tested: LD4D02D010-EU4DR150210IC9024-4LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P738828  
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-EU4DR150210IC9024-4LBS1B  
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 303.3 lumens  
Efficiency: N/A  
Efficacy: 59.5 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 (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



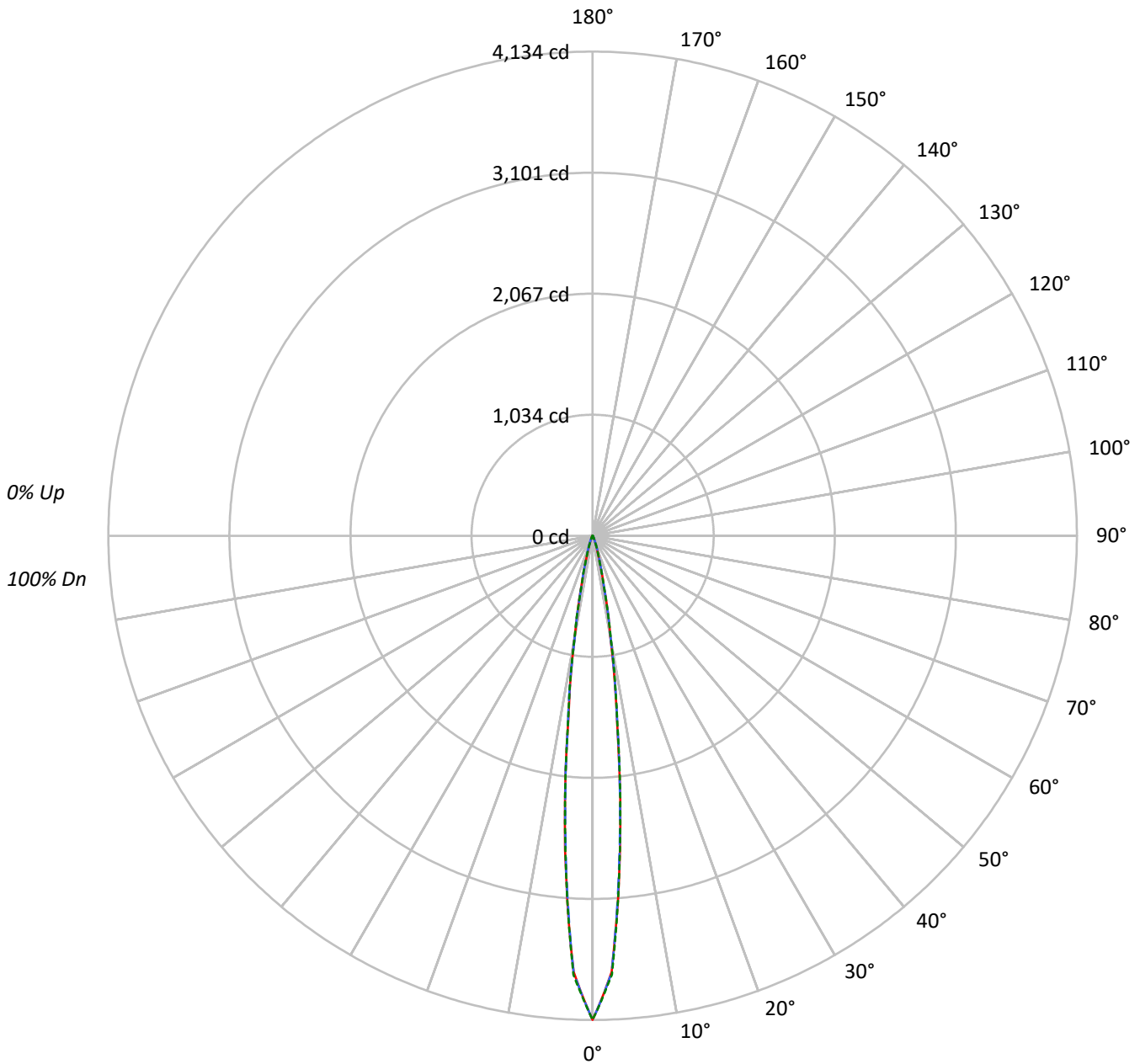
Downlight



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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	99	98	96					96														
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	95					95														
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	99	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	94	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°	465101	465101	465101
5°	273311	269774	271908
10°	81569	82139	83398
15°	20290	20689	20047
20°	6071	7029	6202
25°	2142	2727	2166
30°	786	1033	801
35°	392	443	378
40°	249	270	249
45°	182	196	182
50°	146	146	146
55°	118	118	118
60°	98	98	98
65°	71	71	71
70°	66	66	66
75°	38	38	53
80°	24	24	24
85°	17	17	17

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 196 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	196.8	64.9
10°-20°	80.9	26.7
20°-30°	16.1	5.3
30°-40°	4.0	1.3
40°-50°	2.1	0.7
50°-60°	1.6	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°	293.8	96.9
0°-40°	297.8	98.2
0°-60°	301.4	99.4
0°-90°	303.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	303.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4134	4134	4134	4134	4134	
5°	2689	2662	2654	2673	2676	196
15°	234	238	238	234	231	80
25°	28	31	35	31	28	14
35°	5	6	6	6	5	4
45°	3	3	3	3	3	2
55°	2	2	2	2	2	2
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°	4133.5	4133.5	4133.5	4133.5	4133.5
2.5°	3728.5	3731.7	3732.9	3736.6	3750.2
5°	2689.3	2661.7	2654.5	2672.9	2675.5
7.5°	1593.0	1598.6	1619.1	1623.7	1607.2
10°	874.2	881.4	880.3	886.6	893.8
12.5°	447.1	441.5	439.7	446.9	436.9
15°	233.6	238.0	238.2	234.0	230.8
17.5°	125.6	130.7	139.1	132.3	121.8
20°	74.2	78.7	85.9	80.3	75.8
22.5°	45.8	49.5	54.6	50.2	46.5
25°	27.5	31.1	35.0	31.0	27.8
27.5°	16.3	19.4	21.9	19.2	16.1
30°	10.5	12.2	13.8	12.1	10.7
32.5°	7.3	8.0	8.7	8.0	7.3
35°	5.4	5.8	6.1	5.8	5.2
37.5°	4.2	4.5	4.7	4.4	4.0
40°	3.5	3.7	3.8	3.7	3.5
42.5°	3.0	3.1	3.1	3.1	3.0
45°	2.6	2.6	2.8	2.6	2.6
47.5°	2.3	2.3	2.4	2.3	2.3
50°	2.1	2.1	2.1	2.1	2.1
52.5°	1.9	1.9	1.9	1.9	1.9
55°	1.7	1.7	1.7	1.7	1.7
57.5°	1.6	1.6	1.6	1.6	1.6
60°	1.4	1.4	1.4	1.4	1.4
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°	0.9	0.9	0.9	0.9	0.9
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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