

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: P738881

Luminaire Tested: LD4D02D010-EU4DR150210IC9040-4LBS1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P738881  
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-EU4DR150210IC9040-4LBS1H  
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 402.0 lumens  
Efficiency: N/A  
Efficacy: 78.8 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): 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



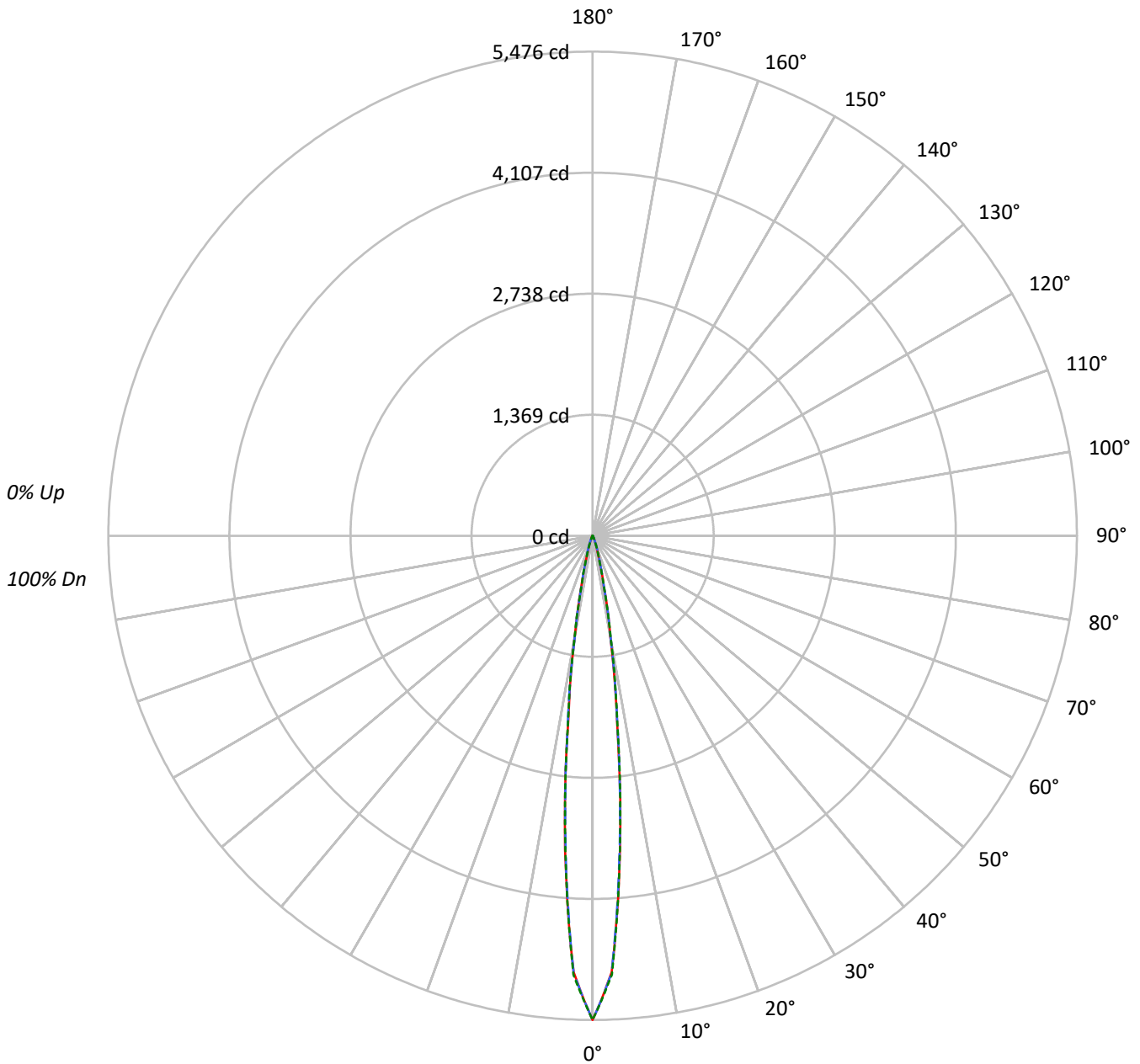
Downlight



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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	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	93	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°	616216	616216	616216
5°	362114	357429	360254
10°	108078	108834	110495
15°	26882	27403	26561
20°	8043	9311	8215
25°	2836	3615	2875
30°	1041	1370	1056
35°	523	588	508
40°	327	362	327
45°	245	259	245
50°	195	195	195
55°	160	160	160
60°	133	133	133
65°	100	100	100
70°	88	88	88
75°	53	53	68
80°	39	39	39
85°	17	17	17

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 259 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.7	64.8
10°-20°	107.2	26.7
20°-30°	21.3	5.3
30°-40°	5.3	1.3
40°-50°	2.8	0.7
50°-60°	2.1	0.5
60°-70°	1.5	0.4
70°-80°	0.8	0.2
80°-90°	0.3	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°	389.2	96.8
0°-40°	394.5	98.1
0°-60°	399.4	99.4
0°-90°	402.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	402.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5476	5476	5476	5476	5476	
5°	3563	3526	3517	3541	3545	260
15°	310	315	316	310	306	106
25°	36	41	46	41	37	19
35°	7	8	8	8	7	5
45°	4	4	4	4	4	3
55°	2	2	2	2	2	2
65°	1	1	1	1	1	1
75°	1	1	1	1	1	1
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°	5476.5	5476.5	5476.5	5476.5	5476.5
2.5°	4940.0	4944.2	4945.8	4950.6	4968.7
5°	3563.1	3526.5	3517.0	3541.3	3544.8
7.5°	2110.6	2118.1	2145.2	2151.2	2129.4
10°	1158.3	1167.8	1166.4	1174.7	1184.2
12.5°	592.3	584.9	582.6	592.1	578.9
15°	309.5	315.3	315.5	310.0	305.8
17.5°	166.5	173.2	184.3	175.3	161.4
20°	98.3	104.3	113.8	106.4	100.4
22.5°	60.7	65.6	72.3	66.5	61.7
25°	36.4	41.3	46.4	41.0	36.9
27.5°	21.6	25.7	29.0	25.5	21.3
30°	13.9	16.2	18.3	16.0	14.1
32.5°	9.7	10.7	11.6	10.7	9.7
35°	7.2	7.7	8.1	7.7	7.0
37.5°	5.6	6.0	6.3	5.8	5.3
40°	4.6	4.9	5.1	4.9	4.6
42.5°	3.9	4.2	4.2	4.2	3.9
45°	3.5	3.5	3.7	3.5	3.5
47.5°	3.0	3.0	3.2	3.0	3.0
50°	2.8	2.8	2.8	2.8	2.8
52.5°	2.6	2.6	2.6	2.6	2.6
55°	2.3	2.3	2.3	2.3	2.3
57.5°	2.1	2.1	2.1	2.1	2.1
60°	1.9	1.9	1.9	1.9	1.9
62.5°	1.6	1.6	1.6	1.6	1.6
65°	1.4	1.4	1.4	1.4	1.4
67.5°	1.4	1.4	1.4	1.4	1.4
70°	1.2	1.2	1.2	1.2	1.2
72.5°	0.9	0.9	0.9	0.9	0.9
75°	0.7	0.7	0.7	0.7	0.9
77.5°	0.7	0.7	0.7	0.7	0.7
80°	0.5	0.5	0.5	0.5	0.5
82.5°	0.5	0.5	0.5	0.5	0.5
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

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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)