

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: P738894

Luminaire Tested: LD4D02D010-EU4DR150210IC9050-4LBS1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P738894  
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-EU4DR150210IC9050-4LBS1H  
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 397.2 lumens  
Efficiency: N/A  
Efficacy: 77.9 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

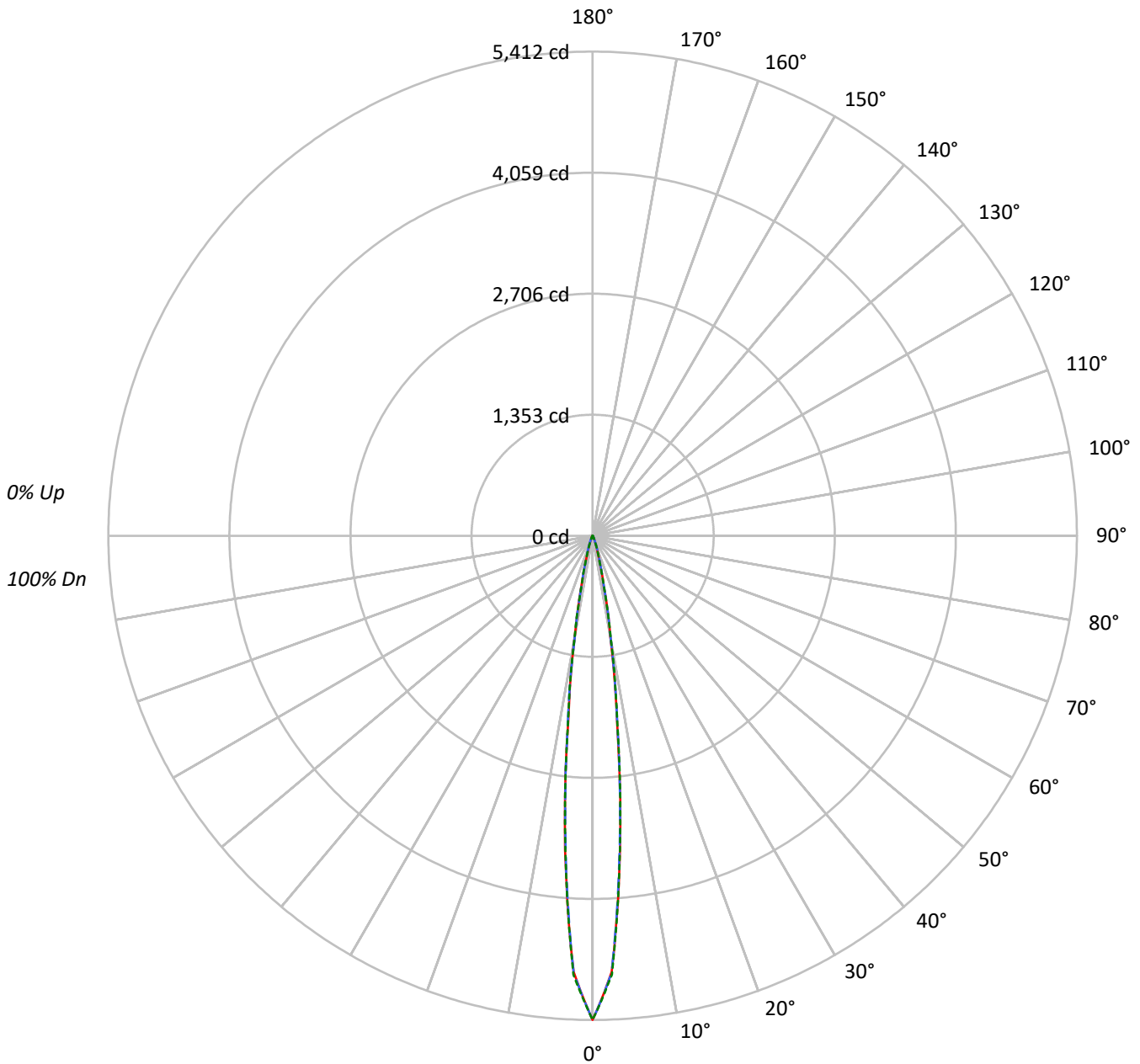


Downlight



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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°	608947	608947	608947
5°	357846	353211	356006
10°	106800	107546	109198
15°	26570	27082	26248
20°	7945	9205	8117
25°	2804	3568	2836
30°	1026	1355	1048
35°	516	581	501
40°	327	355	327
45°	238	259	238
50°	188	188	188
55°	160	160	160
60°	126	126	126
65°	100	100	100
70°	80	80	80
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°	257.6	64.9
10°-20°	106.0	26.7
20°-30°	21.0	5.3
30°-40°	5.3	1.3
40°-50°	2.8	0.7
50°-60°	2.0	0.5
60°-70°	1.4	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°	384.6	96.8
0°-40°	389.9	98.2
0°-60°	394.7	99.4
0°-90°	397.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	397.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5412	5412	5412	5412	5412	
5°	3521	3485	3476	3500	3503	257
15°	306	312	312	306	302	105
25°	36	41	46	41	36	19
35°	7	8	8	8	7	5
45°	3	3	4	3	3	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°	5411.9	5411.9	5411.9	5411.9	5411.9
2.5°	4881.7	4885.9	4887.5	4892.3	4910.1
5°	3521.1	3484.9	3475.5	3499.6	3503.0
7.5°	2085.8	2093.1	2119.9	2125.8	2104.3
10°	1144.6	1154.0	1152.6	1160.9	1170.3
12.5°	585.4	578.0	575.7	585.1	572.1
15°	305.9	311.6	311.8	306.3	302.2
17.5°	164.5	171.1	182.1	173.2	159.5
20°	97.1	103.1	112.5	105.2	99.2
22.5°	60.0	64.8	71.5	65.8	60.9
25°	36.0	40.8	45.8	40.6	36.4
27.5°	21.3	25.4	28.6	25.2	21.1
30°	13.7	16.0	18.1	15.8	14.0
32.5°	9.6	10.5	11.5	10.5	9.6
35°	7.1	7.6	8.0	7.6	6.9
37.5°	5.5	6.0	6.2	5.7	5.3
40°	4.6	4.8	5.0	4.8	4.6
42.5°	3.9	4.1	4.1	4.1	3.9
45°	3.4	3.4	3.7	3.4	3.4
47.5°	3.0	3.0	3.2	3.0	3.0
50°	2.7	2.7	2.7	2.7	2.7
52.5°	2.5	2.5	2.5	2.5	2.5
55°	2.3	2.3	2.3	2.3	2.3
57.5°	2.1	2.1	2.1	2.1	2.1
60°	1.8	1.8	1.8	1.8	1.8
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°	1.1	1.1	1.1	1.1	1.1
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

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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