

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: P739838

Luminaire Tested: LD4D05D010-EU4DR150210IC9024-4LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P739838  
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: LD4D05D010-EU4DR150210IC9024-4LBDP1B  
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 523.1 lumens  
Efficiency: N/A  
Efficacy: 69.8 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): 7.5  
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



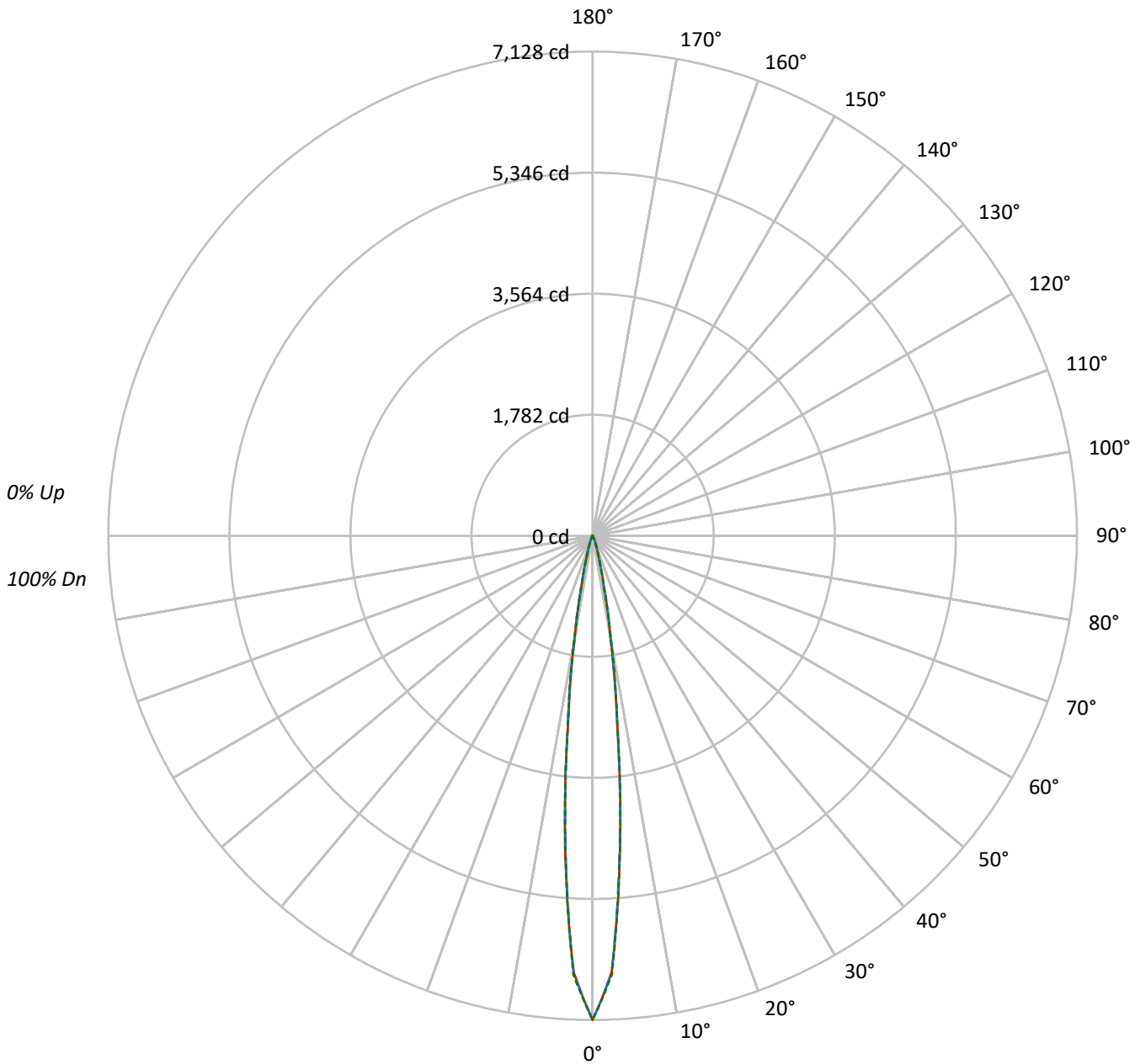
Downlight



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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	99	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	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	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°	802098	802098	802098
5°	471355	465247	468926
10°	140680	141660	143834
15°	34995	35672	34569
20°	10473	12126	10694
25°	3692	4705	3739
30°	1355	1782	1378
35°	683	770	661
40°	426	469	426
45°	315	336	315
50°	250	250	250
55°	209	209	209
60°	169	169	169
65°	128	128	128
70°	110	110	110
75°	68	68	91
80°	47	47	47
85°	25	25	25

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 336 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	339.3	64.9
10°-20°	139.6	26.7
20°-30°	27.7	5.3
30°-40°	6.9	1.3
40°-50°	3.6	0.7
50°-60°	2.7	0.5
60°-70°	1.9	0.4
70°-80°	1.1	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
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0°-30°	506.6	96.8
0°-40°	513.5	98.2
0°-60°	519.8	99.4
0°-90°	523.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	523.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7128	7128	7128	7128	7128	
5°	4638	4590	4578	4610	4614	339
15°	403	410	411	404	398	138
25°	47	54	60	53	48	25
35°	9	10	11	10	9	6
45°	4	4	5	4	4	4
55°	3	3	3	3	3	3
65°	2	2	2	2	2	2
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°	7128.5	7128.5	7128.5	7128.5	7128.5
2.5°	6430.2	6435.6	6437.7	6444.1	6467.6
5°	4638.0	4590.3	4577.9	4609.6	4614.1
7.5°	2747.3	2757.0	2792.3	2800.2	2771.8
10°	1507.7	1520.0	1518.2	1529.1	1541.5
12.5°	771.0	761.4	758.4	770.7	753.5
15°	402.9	410.4	410.7	403.5	398.0
17.5°	216.7	225.4	239.9	228.1	210.0
20°	128.0	135.8	148.2	138.5	130.7
22.5°	79.1	85.4	94.2	86.6	80.3
25°	47.4	53.7	60.4	53.4	48.0
27.5°	28.1	33.5	37.7	33.2	27.8
30°	18.1	21.1	23.8	20.8	18.4
32.5°	12.7	13.9	15.1	13.9	12.7
35°	9.4	10.0	10.6	10.0	9.1
37.5°	7.2	7.8	8.1	7.5	6.9
40°	6.0	6.3	6.6	6.3	6.0
42.5°	5.1	5.4	5.4	5.4	5.1
45°	4.5	4.5	4.8	4.5	4.5
47.5°	3.9	3.9	4.2	3.9	3.9
50°	3.6	3.6	3.6	3.6	3.6
52.5°	3.3	3.3	3.3	3.3	3.3
55°	3.0	3.0	3.0	3.0	3.0
57.5°	2.7	2.7	2.7	2.7	2.7
60°	2.4	2.4	2.4	2.4	2.4
62.5°	2.1	2.1	2.1	2.1	2.1
65°	1.8	1.8	1.8	1.8	1.8
67.5°	1.8	1.8	1.8	1.8	1.8
70°	1.5	1.5	1.5	1.5	1.5
72.5°	1.2	1.2	1.2	1.2	1.2
75°	0.9	0.9	0.9	0.9	1.2
77.5°	0.9	0.9	0.9	0.9	0.9
80°	0.6	0.6	0.6	0.6	0.6
82.5°	0.6	0.6	0.6	0.6	0.6
85°	0.3	0.3	0.3	0.3	0.3
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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