

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: P739123

Luminaire Tested: LD4D02D010-EU4DR300210IC9050-4LBDP1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P739123  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D02D010-EU4DR300210IC9050-4LBDP1B  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 293.8 lumens  
Efficiency: N/A  
Efficacy: 57.6 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
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



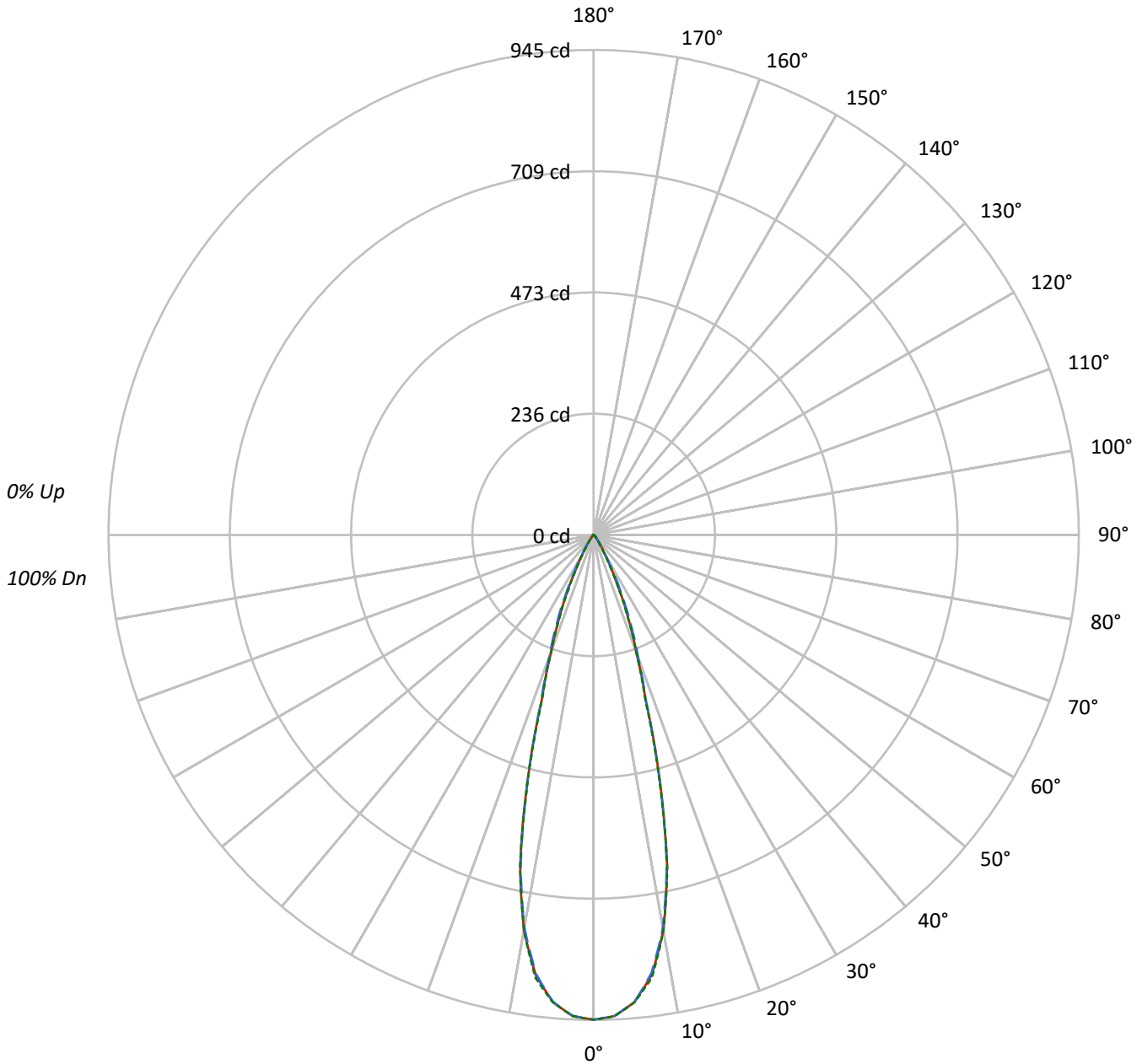
Downlight



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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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	72303	72303	72303
5°	70220	70143	70228
10°	60819	60392	60811
15°	39685	39471	39273
20°	19729	20478	19712
25°	9941	11207	9738
30°	3977	4331	3465
35°	1850	1766	1486
40°	799	889	749
45°	563	704	563
50°	191	500	202
55°	120	214	120
60°	77	92	77
65°	54	54	54
70°	22	22	22
75°	0	30	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 704 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.1	28.3
10°-20°	133.8	45.5
20°-30°	57.8	19.7
30°-40°	13.2	4.5
40°-50°	4.5	1.5
50°-60°	1.1	0.4
60°-70°	0.3	0.1
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	274.6	93.5
0°-40°	287.8	98.0
0°-60°	293.4	99.9
0°-90°	293.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	293.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	945	945	945	945	945	
5°	914	913	913	915	914	83
15°	501	495	498	496	496	134
25°	118	122	133	119	115	56
35°	20	20	19	19	16	13
45°	5	6	6	6	5	4
55°	1	1	2	1	1	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
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°	944.6	944.6	944.6	944.6	944.6
2.5°	938.3	937.6	938.0	938.5	938.7
5°	913.9	913.1	912.9	914.8	914.0
7.5°	864.8	863.6	861.7	866.0	870.0
10°	782.5	781.2	777.0	779.1	782.4
12.5°	661.1	656.6	656.5	663.0	662.1
15°	500.8	494.7	498.1	496.5	495.6
17.5°	336.8	334.4	338.9	337.6	331.7
20°	242.2	242.9	251.4	247.1	242.0
22.5°	176.8	178.9	189.0	178.0	174.0
25°	117.7	122.2	132.7	119.1	115.3
27.5°	72.4	74.4	85.1	71.4	69.4
30°	45.0	44.0	49.0	42.1	39.2
32.5°	29.6	28.2	29.9	26.8	24.5
35°	19.8	20.2	18.9	18.8	15.9
37.5°	12.3	14.2	12.5	13.3	10.2
40°	8.0	10.3	8.9	9.8	7.5
42.5°	6.5	7.9	7.3	7.7	6.7
45°	5.2	6.5	6.5	6.5	5.2
47.5°	2.9	4.3	5.5	4.4	3.0
50°	1.6	2.2	4.2	2.3	1.7
52.5°	1.1	1.3	2.9	1.3	1.1
55°	0.9	0.9	1.6	0.9	0.9
57.5°	0.6	0.7	0.9	0.7	0.6
60°	0.5	0.5	0.6	0.6	0.5
62.5°	0.3	0.3	0.4	0.3	0.3
65°	0.3	0.3	0.3	0.3	0.3
67.5°	0.1	0.2	0.2	0.2	0.2
70°	0.1	0.1	0.1	0.1	0.1
72.5°	0.1	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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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