

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: P739058

Luminaire Tested: LD4D02D010-EU4DR300210IC9024-4LBDP1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P739058  
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-EU4DR300210IC9024-4LBDP1B  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 239.1 lumens  
Efficiency: N/A  
Efficacy: 46.9 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



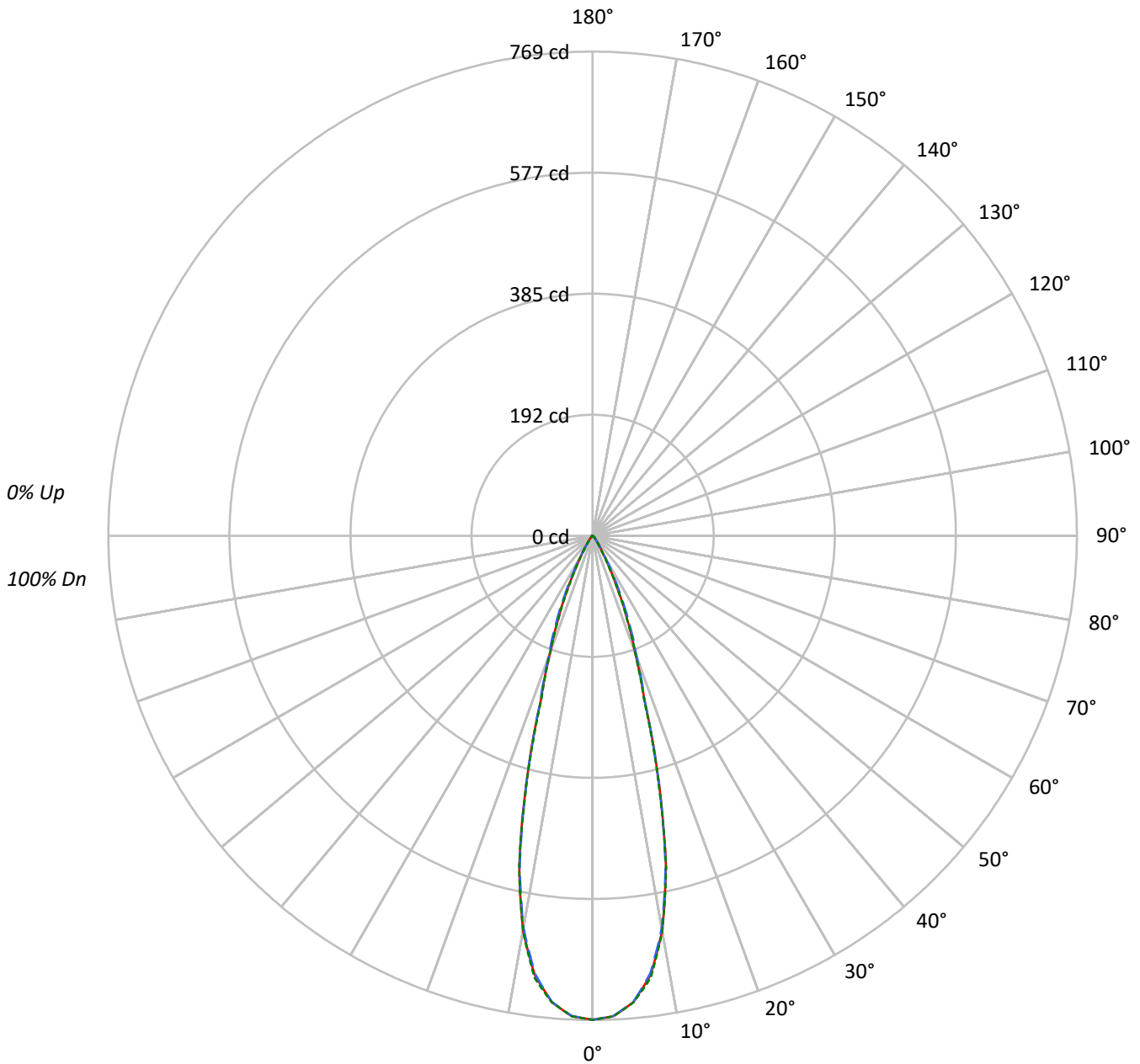
Downlight



TEST NUMBER: P739058

CATALOG NUMBER: LD4D02D010-EU4DR300210IC9024-4LBDP1B

### Luminous Intensity Polar Plot





TEST NUMBER: P739058

CATALOG NUMBER: LD4D02D010-EU4DR300210IC9024-4LBDP1B

**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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

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

	0°	45°	90°
0°	58839	58839	58839
5°	57143	57081	57150
10°	49495	49153	49487
15°	32292	32125	31959
20°	16063	16658	16039
25°	8091	9121	7922
30°	3244	3527	2819
35°	1504	1439	1205
40°	649	719	610
45°	455	574	455
50°	155	417	167
55°	93	173	93
60°	61	77	61
65°	36	36	36
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: 574 cd/sqm



TEST NUMBER: P739058

CATALOG NUMBER: LD4D02D010-EU4DR300210IC9024-4LBDP1B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.6	28.3
10°-20°	108.9	45.5
20°-30°	47.0	19.7
30°-40°	10.7	4.5
40°-50°	3.7	1.5
50°-60°	0.9	0.4
60°-70°	0.2	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°	223.5	93.5
0°-40°	234.2	98.0
0°-60°	238.8	99.9
0°-90°	239.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	239.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	769	769	769	769	769	
5°	744	743	743	744	744	68
15°	408	403	405	404	403	109
25°	96	99	108	97	94	46
35°	16	16	15	15	13	11
45°	4	5	5	5	4	3
55°	1	1	1	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	



TEST NUMBER: P739058

CATALOG NUMBER: LD4D02D010-EU4DR300210IC9024-4LBDP1B

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	768.7	768.7	768.7	768.7	768.7
2.5°	763.6	763.0	763.3	763.7	763.9
5°	743.7	743.0	742.9	744.4	743.8
7.5°	703.8	702.8	701.2	704.7	708.0
10°	636.8	635.7	632.4	634.0	636.7
12.5°	538.0	534.3	534.3	539.5	538.8
15°	407.5	402.6	405.4	404.0	403.3
17.5°	274.0	272.2	275.8	274.7	270.0
20°	197.2	197.6	204.5	201.0	196.9
22.5°	143.9	145.6	153.8	144.9	141.6
25°	95.8	99.4	108.0	96.9	93.8
27.5°	58.9	60.6	69.3	58.2	56.5
30°	36.7	35.8	39.9	34.3	31.9
32.5°	24.1	23.0	24.3	21.8	19.9
35°	16.1	16.4	15.4	15.3	12.9
37.5°	10.0	11.6	10.2	10.9	8.3
40°	6.5	8.4	7.2	8.0	6.1
42.5°	5.3	6.5	5.9	6.3	5.4
45°	4.2	5.3	5.3	5.3	4.2
47.5°	2.3	3.5	4.5	3.6	2.5
50°	1.3	1.8	3.5	1.8	1.4
52.5°	0.9	1.0	2.3	1.0	0.9
55°	0.7	0.7	1.3	0.7	0.7
57.5°	0.5	0.6	0.7	0.6	0.5
60°	0.4	0.4	0.5	0.5	0.4
62.5°	0.3	0.3	0.3	0.3	0.3
65°	0.2	0.2	0.2	0.2	0.2
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



Report Generated By 670245859 / DESKTOP-T8S5UU9

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)