

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: P741114

Luminaire Tested: LD4D08D010-EU4DR300210IC9030-4LBDP1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P741114  
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: LD4D08D010-EU4DR300210IC9030-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 766.5 lumens  
Efficiency: N/A  
Efficacy: 86.1 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): 8.9  
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



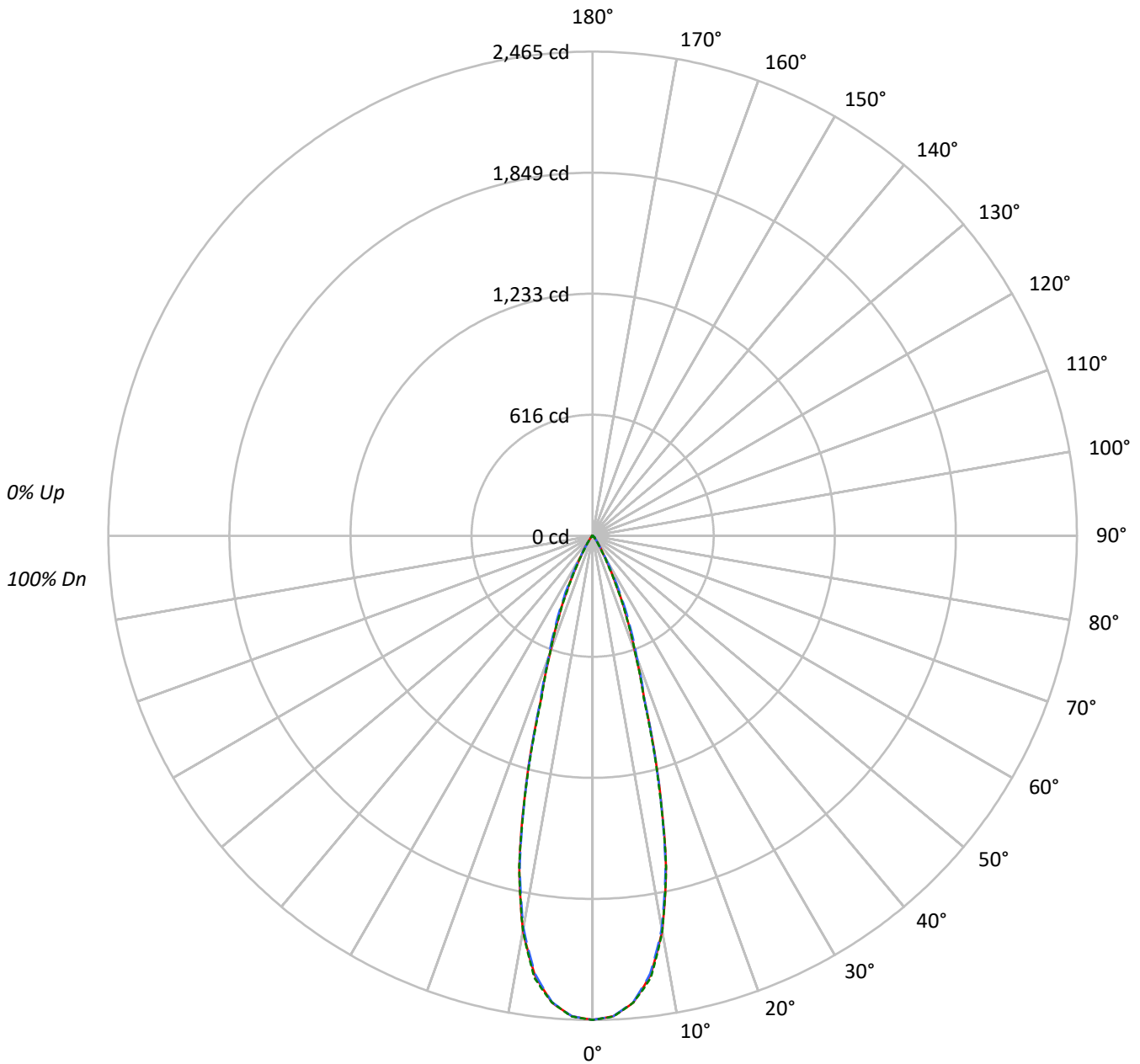
Downlight



TEST NUMBER: P741114

CATALOG NUMBER: LD4D08D010-EU4DR300210IC9030-4LBDP1LI

### Luminous Intensity Polar Plot





TEST NUMBER: P741114

CATALOG NUMBER: LD4D08D010-EU4DR300210IC9030-4LBDP1LI

**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	87	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°	188649	188649	188649
5°	183238	183023	183246
10°	158705	157594	158674
15°	103548	102993	102478
20°	51488	53427	51423
25°	25937	29247	25404
30°	10385	11313	9051
35°	4822	4616	3869
40°	2078	2308	1958
45°	1472	1819	1483
50°	500	1322	536
55°	294	547	307
60°	199	230	199
65°	127	127	127
70°	67	45	67
75°	0	30	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 1819 cd/sqm



TEST NUMBER: P741114

CATALOG NUMBER: LD4D08D010-EU4DR300210IC9030-4LBDP1LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.7	28.3
10°-20°	349.0	45.5
20°-30°	150.8	19.7
30°-40°	34.4	4.5
40°-50°	11.8	1.5
50°-60°	2.9	0.4
60°-70°	0.7	0.1
70°-80°	0.1	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°	716.6	93.5
0°-40°	751.0	98.0
0°-60°	765.7	99.9
0°-90°	766.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	766.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2465	2465	2465	2465	2465	
5°	2385	2382	2382	2387	2385	217
15°	1307	1291	1300	1296	1293	350
25°	307	319	346	311	301	147
35°	52	53	49	49	41	35
45°	14	17	17	17	14	10
55°	2	2	4	2	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P741114

CATALOG NUMBER: LD4D08D010-EU4DR300210IC9030-4LBDP1LI

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2464.6	2464.6	2464.6	2464.6	2464.6
2.5°	2448.3	2446.6	2447.6	2448.8	2449.3
5°	2384.8	2382.4	2382.0	2387.0	2384.9
7.5°	2256.6	2253.4	2248.4	2259.7	2270.2
10°	2041.9	2038.3	2027.6	2032.9	2041.5
12.5°	1725.0	1713.3	1713.1	1730.0	1727.7
15°	1306.7	1291.0	1299.7	1295.5	1293.2
17.5°	878.7	872.7	884.3	880.8	865.7
20°	632.1	633.7	655.9	644.7	631.3
22.5°	461.3	467.0	493.2	464.5	454.0
25°	307.1	318.7	346.3	310.6	300.8
27.5°	188.9	194.2	222.2	186.5	181.2
30°	117.5	114.8	128.0	109.9	102.4
32.5°	77.1	73.7	77.9	70.0	63.9
35°	51.6	52.7	49.4	49.0	41.4
37.5°	32.2	37.0	32.7	34.8	26.6
40°	20.8	26.9	23.1	25.6	19.6
42.5°	17.1	20.7	19.0	20.2	17.4
45°	13.6	16.8	16.8	16.8	13.7
47.5°	7.5	11.2	14.4	11.5	8.0
50°	4.2	5.7	11.1	5.9	4.5
52.5°	2.9	3.3	7.6	3.4	3.0
55°	2.2	2.3	4.1	2.4	2.3
57.5°	1.7	1.8	2.2	1.8	1.7
60°	1.3	1.3	1.5	1.4	1.3
62.5°	1.0	1.0	1.1	1.0	1.0
65°	0.7	0.7	0.7	0.7	0.7
67.5°	0.3	0.5	0.5	0.5	0.5
70°	0.3	0.2	0.2	0.2	0.3
72.5°	0.2	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)