

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: P741139

Luminaire Tested: LD4D08D010-EU4DR300210IC9040-4LBDP1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P741139  
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-EU4DR300210IC9040-4LBDP1H  
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 791.9 lumens  
Efficiency: N/A  
Efficacy: 89.0 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



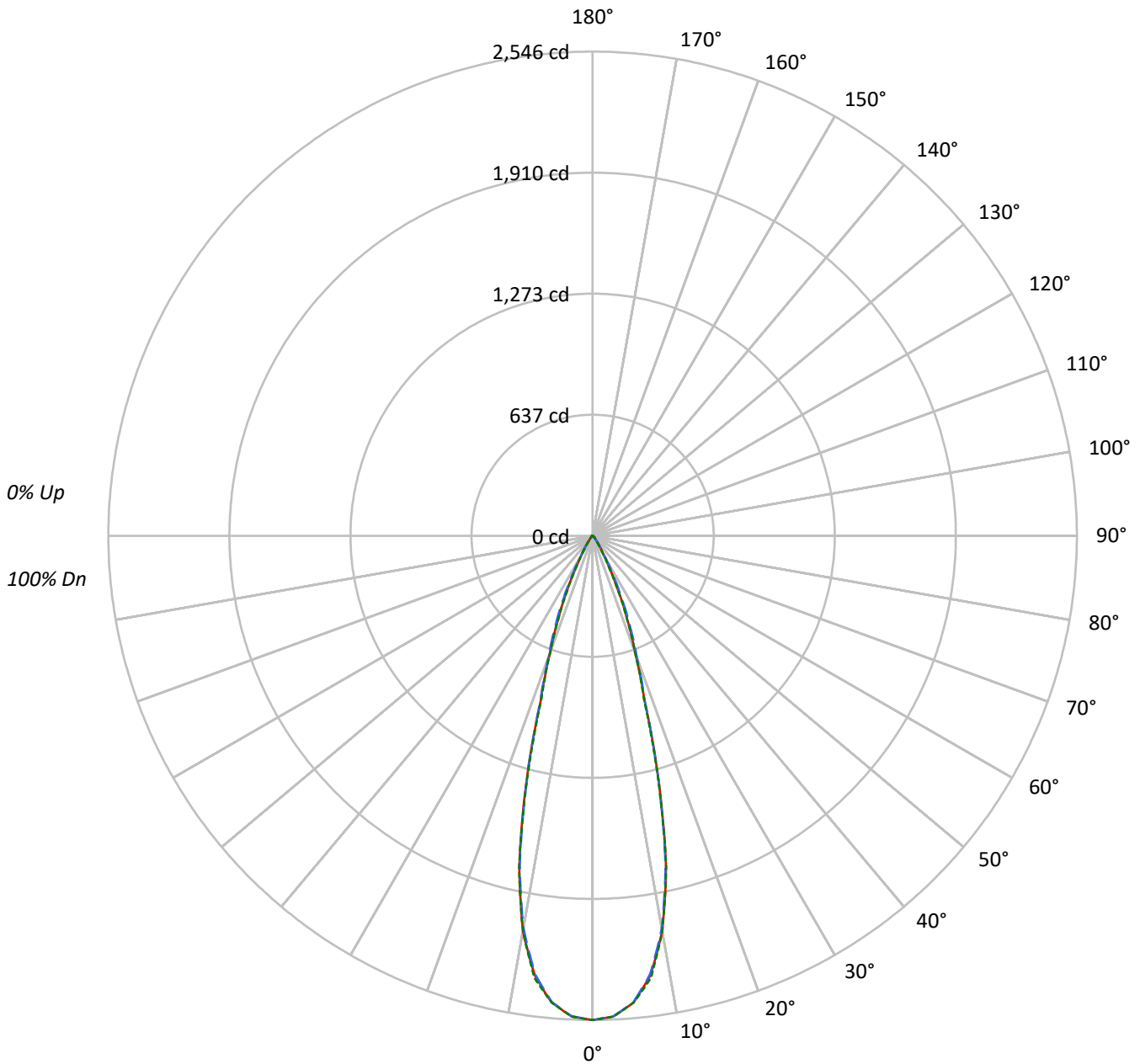
Downlight



TEST NUMBER: P741139

CATALOG NUMBER: LD4D08D010-EU4DR300210IC9040-4LBDP1H

### Luminous Intensity Polar Plot





TEST NUMBER: P741139

CATALOG NUMBER: LD4D08D010-EU4DR300210IC9040-4LBDP1H

**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	87	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°	194918	194918	194918
5°	189323	189101	189331
10°	163983	162824	163944
15°	106987	106416	105877
20°	53199	55194	53125
25°	26798	30218	26249
30°	10730	11693	9351
35°	4980	4766	3990
40°	2148	2388	2018
45°	1515	1884	1537
50°	524	1369	548
55°	294	560	307
60°	214	245	214
65°	127	127	127
70°	90	45	90
75°	0	30	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 1884 cd/sqm



TEST NUMBER: P741139

CATALOG NUMBER: LD4D08D010-EU4DR300210IC9040-4LBDP1H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	223.9	28.3
10°-20°	360.6	45.5
20°-30°	155.8	19.7
30°-40°	35.5	4.5
40°-50°	12.2	1.5
50°-60°	3.0	0.4
60°-70°	0.8	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°	740.4	93.5
0°-40°	775.9	98.0
0°-60°	791.1	99.9
0°-90°	791.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	791.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2546	2546	2546	2546	2546	
5°	2464	2462	2461	2466	2464	224
15°	1350	1334	1343	1338	1336	362
25°	317	329	358	321	311	152
35°	53	54	51	51	43	36
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: P741139

CATALOG NUMBER: LD4D08D010-EU4DR300210IC9040-4LBDP1H

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2546.5	2546.5	2546.5	2546.5	2546.5
2.5°	2529.6	2527.9	2528.8	2530.1	2530.6
5°	2464.0	2461.6	2461.1	2466.2	2464.1
7.5°	2331.6	2328.2	2323.0	2334.7	2345.5
10°	2109.8	2106.0	2094.9	2100.4	2109.3
12.5°	1782.3	1770.2	1770.0	1787.4	1785.1
15°	1350.1	1333.9	1342.9	1338.5	1336.1
17.5°	907.9	901.7	913.7	910.0	894.4
20°	653.1	654.8	677.6	666.1	652.2
22.5°	476.6	482.5	509.6	480.0	469.1
25°	317.3	329.3	357.8	320.9	310.8
27.5°	195.1	200.6	229.5	192.7	187.2
30°	121.4	118.7	132.3	113.5	105.8
32.5°	79.6	76.1	80.5	72.2	66.0
35°	53.3	54.4	51.0	50.6	42.7
37.5°	33.2	38.3	33.7	36.0	27.5
40°	21.5	27.7	23.9	26.4	20.2
42.5°	17.6	21.4	19.7	20.9	18.0
45°	14.0	17.4	17.4	17.4	14.2
47.5°	7.7	11.6	14.9	11.9	8.3
50°	4.4	5.9	11.5	6.1	4.6
52.5°	3.0	3.4	7.8	3.5	3.2
55°	2.2	2.3	4.2	2.5	2.3
57.5°	1.8	1.9	2.2	1.9	1.8
60°	1.4	1.4	1.6	1.5	1.4
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°	0.4	0.5	0.5	0.5	0.5
70°	0.4	0.2	0.2	0.2	0.4
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)