

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: P741917

Luminaire Tested: LD4D10D010-EU4DR150210IC9040-4LBCSSQMW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P741917  
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: LD4D10D010-EU4DR150210IC9040-4LBCSSQMW  
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1031.3 lumens  
Efficiency: N/A  
Efficacy: 88.1 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): 11.7  
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



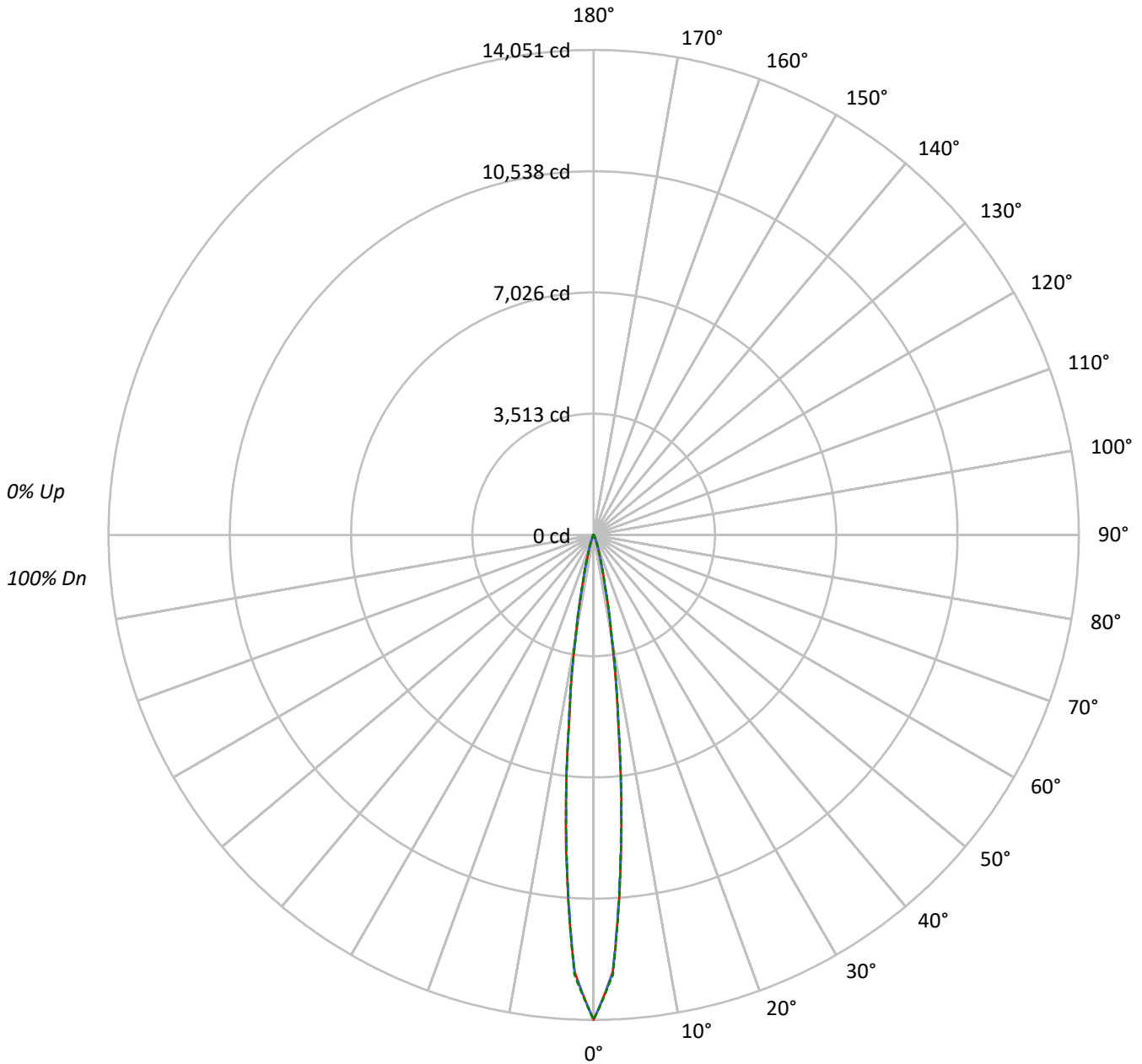
Downlight



TEST NUMBER: P741917

CATALOG NUMBER: LD4D10D010-EU4DR150210IC9040-4LBCSSQMW

### Luminous Intensity Polar Plot





TEST NUMBER: P741917

CATALOG NUMBER: LD4D10D010-EU4DR150210IC9040-4LBCSSQMW

**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	98	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	98	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	87	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°	1581029	1581029	1581029
5°	929091	917059	924315
10°	277291	279232	283506
15°	68973	70319	68148
20°	20636	23900	21078
25°	7276	9270	7369
30°	2673	3519	2718
35°	1336	1510	1293
40°	845	930	845
45°	623	665	623
50°	494	494	494
55°	411	411	411
60°	337	337	337
65°	257	257	257
70°	219	219	219
75°	136	136	181
80°	95	95	95
85°	50	50	50

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 665 cd/sqm



TEST NUMBER: P741917

CATALOG NUMBER: LD4D10D010-EU4DR150210IC9040-4LBCSSQMW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	668.9	64.9
10°-20°	275.1	26.7
20°-30°	54.6	5.3
30°-40°	13.6	1.3
40°-50°	7.2	0.7
50°-60°	5.3	0.5
60°-70°	3.8	0.4
70°-80°	2.2	0.2
80°-90°	0.7	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
0°-30°	998.6	96.8
0°-40°	1012.3	98.2
0°-60°	1024.7	99.4
0°-90°	1031.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1031.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	14051	14051	14051	14051	14051	
5°	9142	9048	9024	9086	9095	668
15°	794	809	810	795	785	272
25°	93	106	119	105	95	49
35°	18	20	21	20	18	13
45°	9	9	10	9	9	7
55°	6	6	6	6	6	5
65°	4	4	4	4	4	4
75°	2	2	2	2	2	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P741917

CATALOG NUMBER: LD4D10D010-EU4DR150210IC9040-4LBCSSQMW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	14051.1	14051.1	14051.1	14051.1	14051.1
2.5°	12674.6	12685.4	12689.5	12702.0	12748.4
5°	9142.0	9048.0	9023.6	9086.0	9095.0
7.5°	5415.3	5434.4	5504.0	5519.4	5463.5
10°	2971.8	2996.2	2992.6	3014.0	3038.4
12.5°	1519.8	1500.8	1494.8	1519.2	1485.3
15°	794.1	809.0	809.6	795.3	784.6
17.5°	427.1	444.3	472.9	449.7	414.0
20°	252.2	267.7	292.1	273.0	257.6
22.5°	155.8	168.3	185.6	170.7	158.2
25°	93.4	105.9	119.0	105.3	94.6
27.5°	55.3	66.0	74.4	65.4	54.7
30°	35.7	41.6	47.0	41.0	36.3
32.5°	25.0	27.4	29.7	27.4	25.0
35°	18.4	19.6	20.8	19.6	17.8
37.5°	14.3	15.5	16.1	14.9	13.7
40°	11.9	12.5	13.1	12.5	11.9
42.5°	10.1	10.7	10.7	10.7	10.1
45°	8.9	8.9	9.5	8.9	8.9
47.5°	7.7	7.7	8.3	7.7	7.7
50°	7.1	7.1	7.1	7.1	7.1
52.5°	6.5	6.5	6.5	6.5	6.5
55°	5.9	5.9	5.9	5.9	5.9
57.5°	5.4	5.4	5.4	5.4	5.4
60°	4.8	4.8	4.8	4.8	4.8
62.5°	4.2	4.2	4.2	4.2	4.2
65°	3.6	3.6	3.6	3.6	3.6
67.5°	3.6	3.6	3.6	3.6	3.6
70°	3.0	3.0	3.0	3.0	3.0
72.5°	2.4	2.4	2.4	2.4	2.4
75°	1.8	1.8	1.8	1.8	2.4
77.5°	1.8	1.8	1.8	1.8	1.8
80°	1.2	1.2	1.2	1.2	1.2
82.5°	1.2	1.2	1.2	1.2	1.2
85°	0.6	0.6	0.6	0.6	0.6
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)