

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: P742940

Luminaire Tested: LD4D15D010-EU4DR1515309050-4LBCSSQMW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P742940  
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: LD4D15D010-EU4DR1515309050-4LBCSSQMW  
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1369.4 lumens  
Efficiency: N/A  
Efficacy: 86.7 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): 15.8  
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

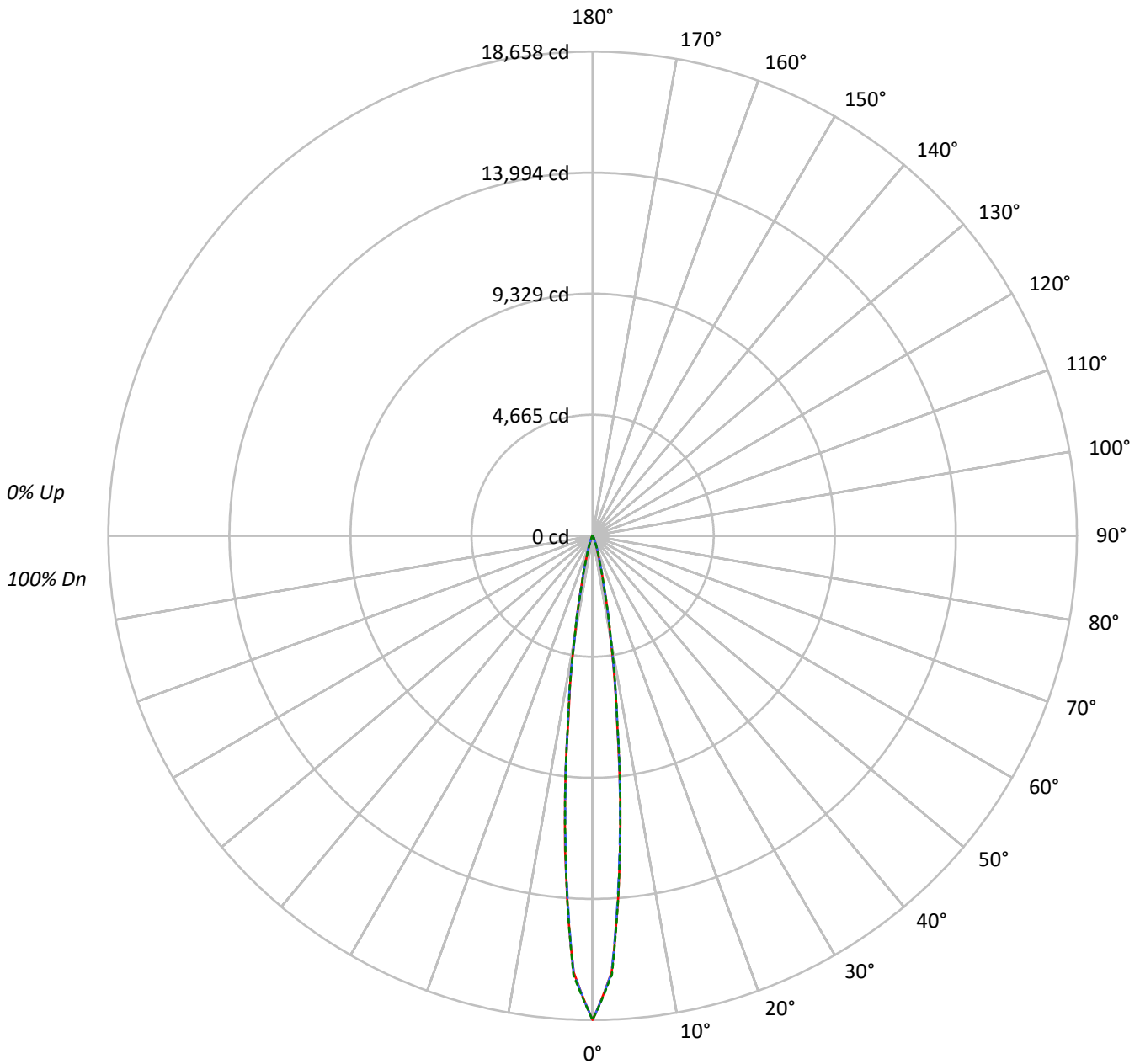


Downlight



TEST NUMBER: P742940  
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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	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	88	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°	2099408	2099408	2099408
5°	1233714	1217738	1227372
10°	368201	370786	376459
15°	91591	93371	90487
20°	27402	31731	27983
25°	9660	12308	9784
30°	3549	4673	3609
35°	1779	2004	1721
40°	1122	1236	1122
45°	826	882	826
50°	661	661	661
55°	550	550	550
60°	442	442	442
65°	335	335	335
70°	285	285	285
75°	181	181	242
80°	126	126	126
85°	66	66	66

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 882 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	888.2	64.9
10°-20°	365.3	26.7
20°-30°	72.6	5.3
30°-40°	18.1	1.3
40°-50°	9.5	0.7
50°-60°	7.1	0.5
60°-70°	4.9	0.4
70°-80°	2.9	0.2
80°-90°	0.9	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°	1326.0	96.8
0°-40°	1344.2	98.2
0°-60°	1360.7	99.4
0°-90°	1369.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1369.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	18658	18658	18658	18658	18658	
5°	12139	12015	11982	12065	12077	886
15°	1054	1074	1075	1056	1042	362
25°	124	141	158	140	126	65
35°	24	26	28	26	24	17
45°	12	12	13	12	12	9
55°	8	8	8	8	8	7
65°	5	5	5	5	5	5
75°	2	2	2	2	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	18658.1	18658.1	18658.1	18658.1	18658.1
2.5°	16830.4	16844.6	16850.1	16866.7	16928.3
5°	12139.4	12014.6	11982.2	12065.1	12077.0
7.5°	7190.9	7216.2	7308.6	7329.1	7254.9
10°	3946.1	3978.5	3973.8	4002.2	4034.6
12.5°	2018.1	1992.8	1984.9	2017.3	1972.3
15°	1054.5	1074.2	1075.0	1056.0	1041.8
17.5°	567.1	590.0	627.9	597.1	549.7
20°	334.9	355.4	387.8	362.5	342.0
22.5°	206.9	223.5	246.4	226.7	210.1
25°	124.0	140.6	158.0	139.8	125.6
27.5°	73.5	87.7	98.7	86.9	72.7
30°	47.4	55.3	62.4	54.5	48.2
32.5°	33.2	36.3	39.5	36.3	33.2
35°	24.5	26.1	27.6	26.1	23.7
37.5°	19.0	20.5	21.3	19.7	18.2
40°	15.8	16.6	17.4	16.6	15.8
42.5°	13.4	14.2	14.2	14.2	13.4
45°	11.8	11.8	12.6	11.8	11.8
47.5°	10.3	10.3	11.1	10.3	10.3
50°	9.5	9.5	9.5	9.5	9.5
52.5°	8.7	8.7	8.7	8.7	8.7
55°	7.9	7.9	7.9	7.9	7.9
57.5°	7.1	7.1	7.1	7.1	7.1
60°	6.3	6.3	6.3	6.3	6.3
62.5°	5.5	5.5	5.5	5.5	5.5
65°	4.7	4.7	4.7	4.7	4.7
67.5°	4.7	4.7	4.7	4.7	4.7
70°	3.9	3.9	3.9	3.9	3.9
72.5°	3.2	3.2	3.2	3.2	3.2
75°	2.4	2.4	2.4	2.4	3.2
77.5°	2.4	2.4	2.4	2.4	2.4
80°	1.6	1.6	1.6	1.6	1.6
82.5°	1.6	1.6	1.6	1.6	1.6
85°	0.8	0.8	0.8	0.8	0.8
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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(END OF REPORT)