

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: P742877

Luminaire Tested: LD4D15D010-EU4DR1515309024-4LBCSSQMW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P742877
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-EU4DR1515309024-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1114.4 lumens
Efficiency: N/A
Efficacy: 70.5 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



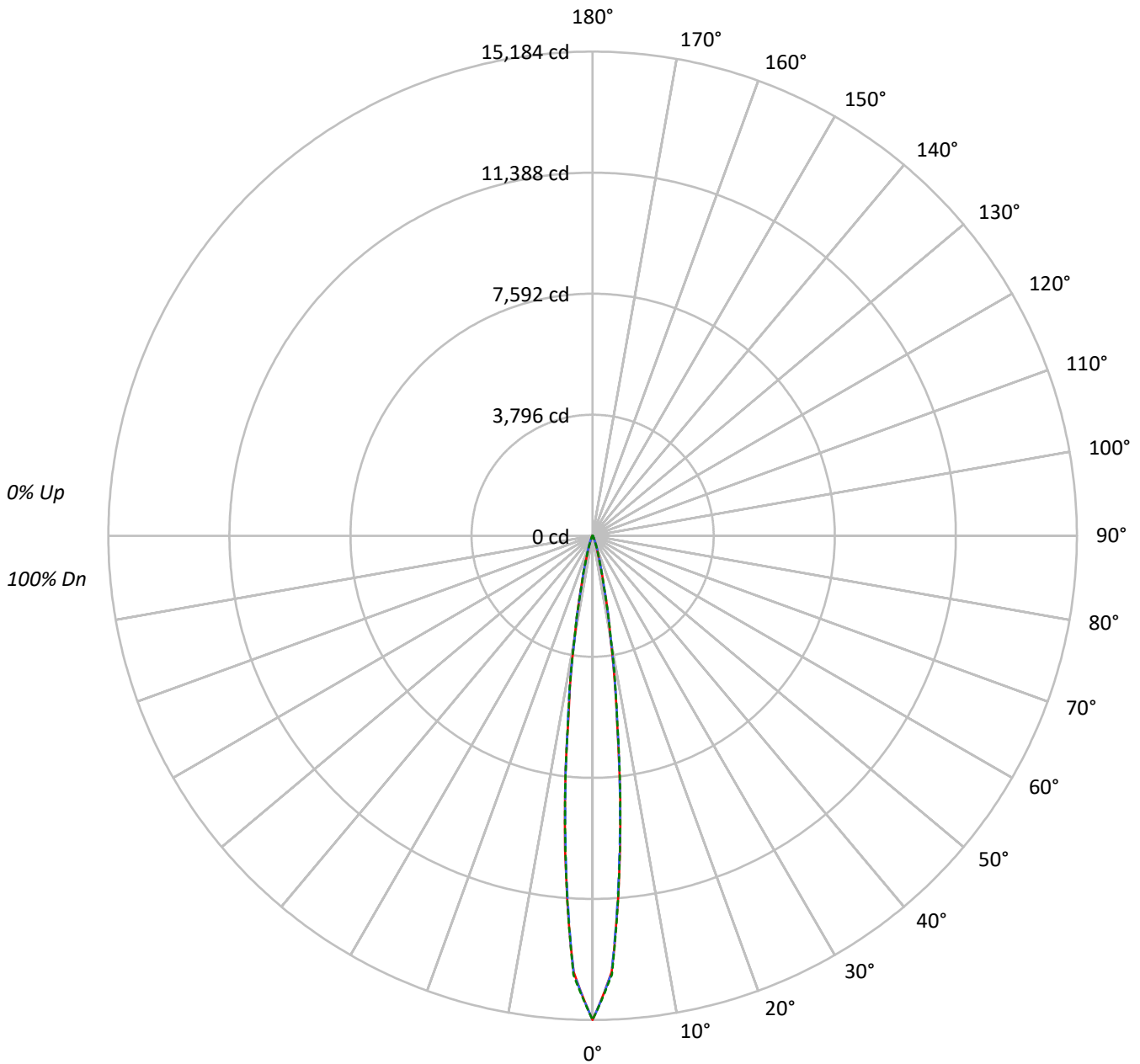
Downlight



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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°	1708458	1708458	1708458
5°	1003972	990973	998809
10°	299639	301738	306357
15°	74532	75982	73637
20°	22297	25823	22771
25°	7860	10018	7961
30°	2890	3804	2935
35°	1445	1634	1402
40°	916	1001	916
45°	672	721	672
50°	535	535	535
55°	445	445	445
60°	358	358	358
65°	278	278	278
70°	234	234	234
75°	144	144	197
80°	102	102	102
85°	50	50	50

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 721 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	722.8	64.9
10°-20°	297.3	26.7
20°-30°	59.0	5.3
30°-40°	14.7	1.3
40°-50°	7.8	0.7
50°-60°	5.7	0.5
60°-70°	4.1	0.4
70°-80°	2.3	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°	1079.1	96.8
0°-40°	1093.9	98.2
0°-60°	1107.3	99.4
0°-90°	1114.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1114.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15184	15184	15184	15184	15184	
5°	9879	9777	9751	9818	9828	721
15°	858	874	875	859	848	294
25°	101	114	129	114	102	53
35°	20	21	22	21	19	14
45°	10	10	10	10	10	8
55°	6	6	6	6	6	6
65°	4	4	4	4	4	4
75°	2	2	2	2	3	2
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°	15183.6	15183.6	15183.6	15183.6	15183.6
2.5°	13696.2	13707.8	13712.3	13725.8	13775.9
5°	9878.8	9777.2	9750.9	9818.4	9828.0
7.5°	5851.8	5872.4	5947.6	5964.3	5903.9
10°	3211.3	3237.7	3233.8	3256.9	3283.3
12.5°	1642.3	1621.7	1615.3	1641.6	1605.0
15°	858.1	874.2	874.8	859.4	847.8
17.5°	461.5	480.2	511.0	485.9	447.4
20°	272.5	289.2	315.6	295.0	278.3
22.5°	168.4	181.9	200.5	184.5	171.0
25°	100.9	114.4	128.6	113.8	102.2
27.5°	59.8	71.3	80.3	70.7	59.1
30°	38.6	45.0	50.8	44.4	39.2
32.5°	27.0	29.6	32.1	29.6	27.0
35°	19.9	21.2	22.5	21.2	19.3
37.5°	15.4	16.7	17.4	16.1	14.8
40°	12.9	13.5	14.1	13.5	12.9
42.5°	10.9	11.6	11.6	11.6	10.9
45°	9.6	9.6	10.3	9.6	9.6
47.5°	8.4	8.4	9.0	8.4	8.4
50°	7.7	7.7	7.7	7.7	7.7
52.5°	7.1	7.1	7.1	7.1	7.1
55°	6.4	6.4	6.4	6.4	6.4
57.5°	5.8	5.8	5.8	5.8	5.8
60°	5.1	5.1	5.1	5.1	5.1
62.5°	4.5	4.5	4.5	4.5	4.5
65°	3.9	3.9	3.9	3.9	3.9
67.5°	3.9	3.9	3.9	3.9	3.9
70°	3.2	3.2	3.2	3.2	3.2
72.5°	2.6	2.6	2.6	2.6	2.6
75°	1.9	1.9	1.9	1.9	2.6
77.5°	1.9	1.9	1.9	1.9	1.9
80°	1.3	1.3	1.3	1.3	1.3
82.5°	1.3	1.3	1.3	1.3	1.3
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



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Scaled Data Report





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

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