

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: P744810

Luminaire Tested: LD4D25D010-EU4DR1515309027-4LBCSSQMW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P744810
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: LD4D25D010-EU4DR1515309027-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2195.1 lumens
Efficiency: N/A
Efficacy: 87.5 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): 25.1
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

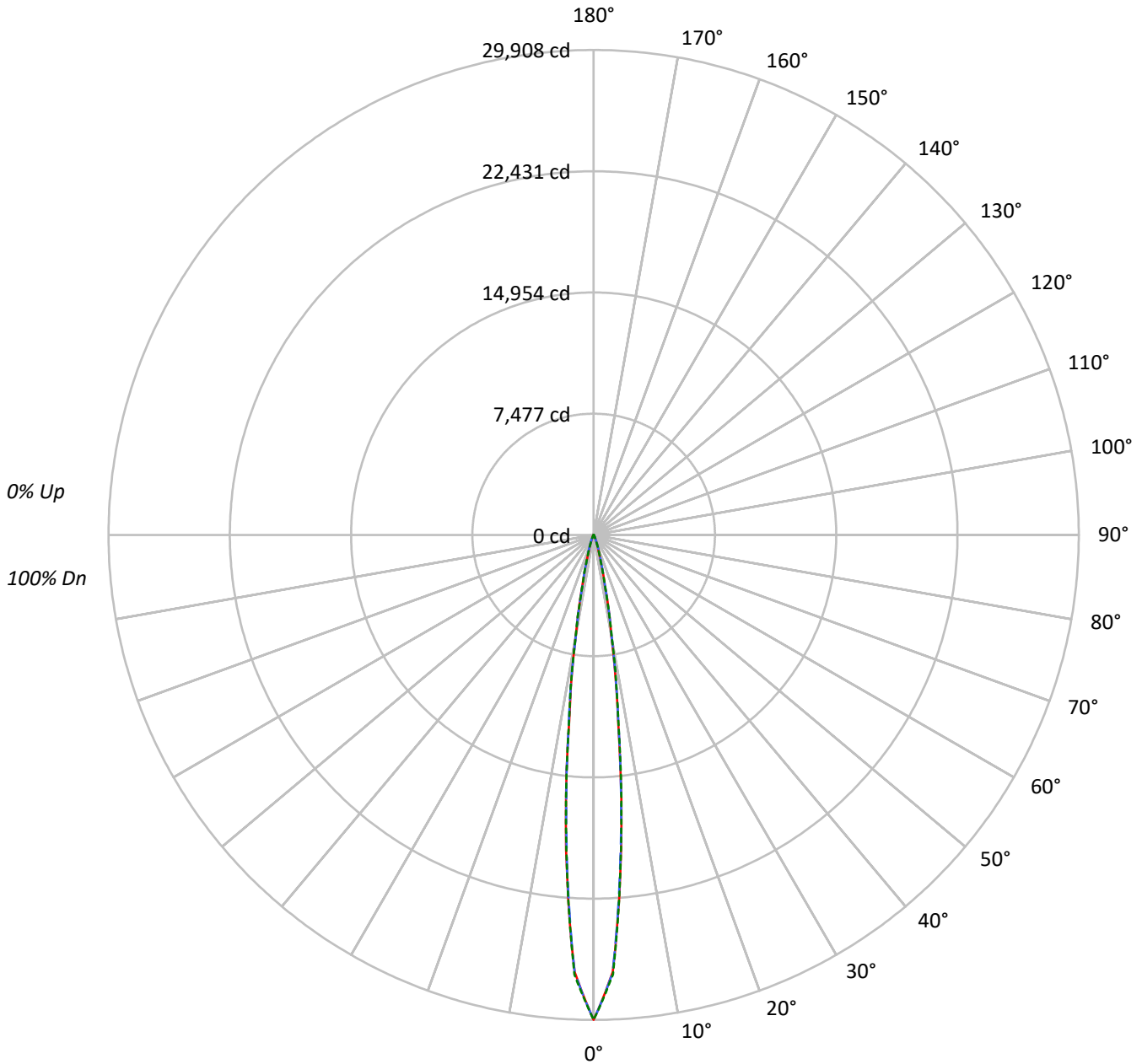


Downlight



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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°	3365224	3365224	3365224
5°	1977566	1951966	1967403
10°	590208	594351	603439
15°	146805	149672	145051
20°	43922	50869	44855
25°	15487	19724	15681
30°	5691	7488	5781
35°	2847	3217	2760
40°	1797	1981	1797
45°	1330	1421	1330
50°	1057	1057	1057
55°	884	884	884
60°	709	709	709
65°	542	542	542
70°	461	461	461
75°	287	287	385
80°	197	197	197
85°	108	108	108

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1421 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1423.7	64.9
10°-20°	585.6	26.7
20°-30°	116.3	5.3
30°-40°	29.0	1.3
40°-50°	15.3	0.7
50°-60°	11.3	0.5
60°-70°	8.0	0.4
70°-80°	4.6	0.2
80°-90°	1.4	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°	2125.6	96.8
0°-40°	2154.6	98.2
0°-60°	2181.2	99.4
0°-90°	2195.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2195.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29908	29908	29908	29908	29908	
5°	19459	19259	19207	19340	19359	1421
15°	1690	1722	1723	1693	1670	580
25°	199	225	253	224	201	104
35°	39	42	44	42	38	27
45°	19	19	20	19	19	15
55°	13	13	13	13	13	11
65°	8	8	8	8	8	8
75°	4	4	4	4	5	5
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°	29907.8	29907.8	29907.8	29907.8	29907.8
2.5°	26978.1	27000.9	27009.7	27036.3	27135.1
5°	19458.7	19258.7	19206.8	19339.7	19358.7
7.5°	11526.6	11567.1	11715.2	11748.2	11629.1
10°	6325.4	6377.4	6369.8	6415.3	6467.2
12.5°	3234.9	3194.4	3181.7	3233.6	3161.5
15°	1690.2	1721.9	1723.2	1692.8	1670.0
17.5°	909.1	945.8	1006.6	957.2	881.2
20°	536.8	569.7	621.7	581.1	548.2
22.5°	331.7	358.3	395.0	363.4	336.8
25°	198.8	225.4	253.2	224.1	201.3
27.5°	117.7	140.5	158.3	139.3	116.5
30°	76.0	88.6	100.0	87.4	77.2
32.5°	53.2	58.2	63.3	58.2	53.2
35°	39.2	41.8	44.3	41.8	38.0
37.5°	30.4	32.9	34.2	31.7	29.1
40°	25.3	26.6	27.9	26.6	25.3
42.5°	21.5	22.8	22.8	22.8	21.5
45°	19.0	19.0	20.3	19.0	19.0
47.5°	16.5	16.5	17.7	16.5	16.5
50°	15.2	15.2	15.2	15.2	15.2
52.5°	13.9	13.9	13.9	13.9	13.9
55°	12.7	12.7	12.7	12.7	12.7
57.5°	11.4	11.4	11.4	11.4	11.4
60°	10.1	10.1	10.1	10.1	10.1
62.5°	8.9	8.9	8.9	8.9	8.9
65°	7.6	7.6	7.6	7.6	7.6
67.5°	7.6	7.6	7.6	7.6	7.6
70°	6.3	6.3	6.3	6.3	6.3
72.5°	5.1	5.1	5.1	5.1	5.1
75°	3.8	3.8	3.8	3.8	5.1
77.5°	3.8	3.8	3.8	3.8	3.8
80°	2.5	2.5	2.5	2.5	2.5
82.5°	2.5	2.5	2.5	2.5	2.5
85°	1.3	1.3	1.3	1.3	1.3
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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