

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: P744862

Luminaire Tested: LD4D25D010-EU4DR1515309050-4LBCSSQMW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P744862
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-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: 2429.9 lumens
Efficiency: N/A
Efficacy: 96.8 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

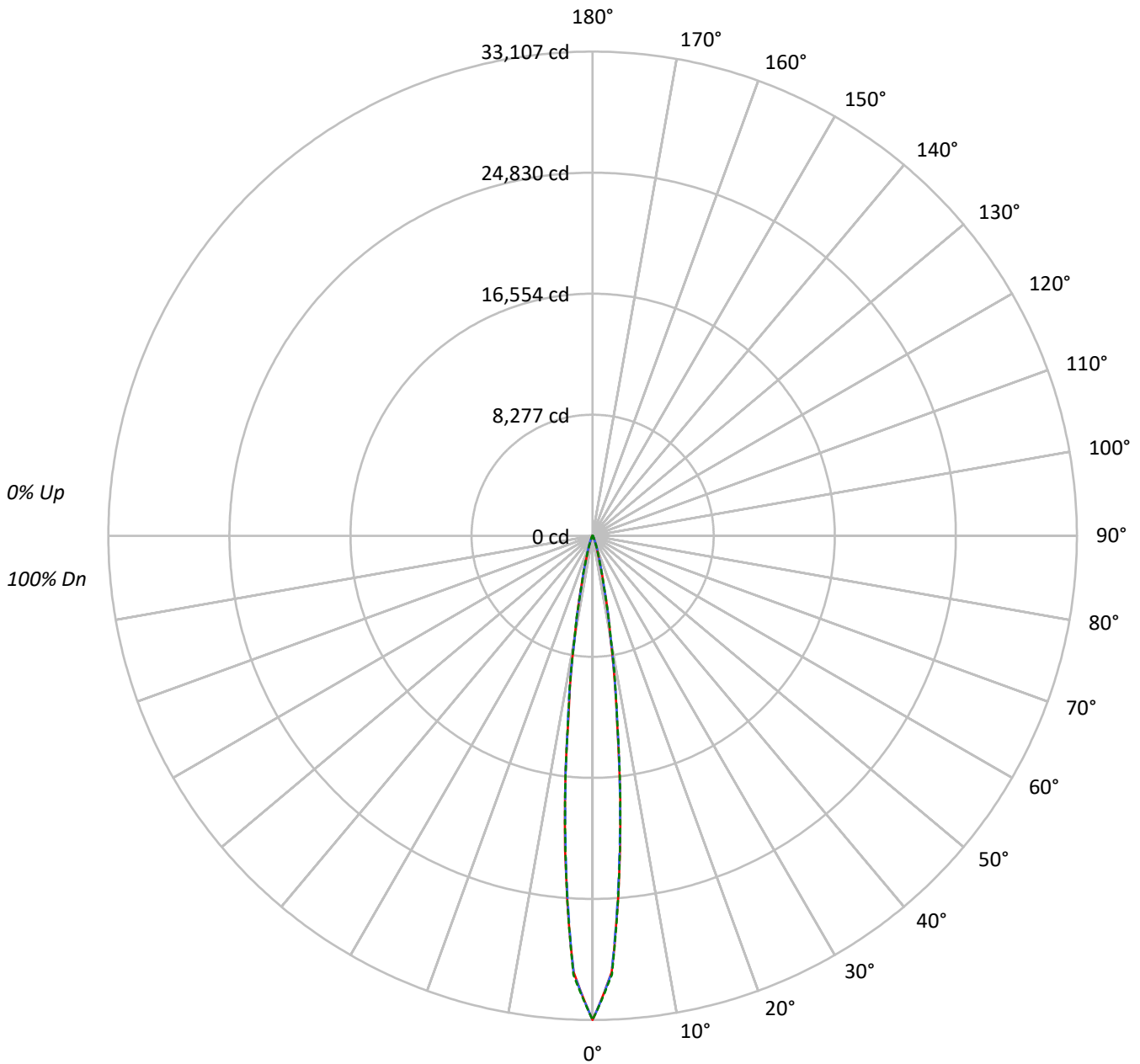


Downlight



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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°	3725232	3725232	3725232
5°	2189117	2160773	2177867
10°	653349	657930	667998
15°	162518	165679	160564
20°	48627	56310	49658
25°	17138	21836	17356
30°	6298	8289	6402
35°	3152	3566	3050
40°	1988	2187	1988
45°	1470	1568	1470
50°	1168	1168	1168
55°	974	974	974
60°	786	786	786
65°	600	600	600
70°	512	512	512
75°	317	317	423
80°	221	221	221
85°	116	116	116

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1568 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1576.0	64.9
10°-20°	648.2	26.7
20°-30°	128.8	5.3
30°-40°	32.1	1.3
40°-50°	16.9	0.7
50°-60°	12.5	0.5
60°-70°	8.8	0.4
70°-80°	5.0	0.2
80°-90°	1.5	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°	2353.0	96.8
0°-40°	2385.1	98.2
0°-60°	2414.5	99.4
0°-90°	2429.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2429.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	33107	33107	33107	33107	33107	
5°	21540	21319	21261	21409	21430	1573
15°	1871	1906	1908	1874	1849	641
25°	220	250	280	248	223	116
35°	43	46	49	46	42	29
45°	21	21	22	21	21	16
55°	14	14	14	14	14	13
65°	8	8	8	8	8	9
75°	4	4	4	4	6	5
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	33107.3	33107.3	33107.3	33107.3	33107.3
2.5°	29864.1	29889.3	29899.2	29928.6	30037.9
5°	21540.3	21318.9	21261.4	21408.6	21429.6
7.5°	12759.7	12804.5	12968.5	13004.9	12873.2
10°	7002.1	7059.6	7051.2	7101.6	7159.1
12.5°	3580.9	3536.1	3522.1	3579.5	3499.7
15°	1871.1	1906.1	1907.5	1873.9	1848.6
17.5°	1006.3	1047.0	1114.2	1059.6	975.5
20°	594.3	630.7	688.2	643.3	606.9
22.5°	367.2	396.6	437.3	402.2	372.8
25°	220.0	249.5	280.3	248.1	222.8
27.5°	130.3	155.6	175.2	154.2	128.9
30°	84.1	98.1	110.7	96.7	85.5
32.5°	58.9	64.5	70.1	64.5	58.9
35°	43.4	46.3	49.1	46.3	42.0
37.5°	33.6	36.4	37.8	35.0	32.2
40°	28.0	29.4	30.8	29.4	28.0
42.5°	23.8	25.2	25.2	25.2	23.8
45°	21.0	21.0	22.4	21.0	21.0
47.5°	18.2	18.2	19.6	18.2	18.2
50°	16.8	16.8	16.8	16.8	16.8
52.5°	15.4	15.4	15.4	15.4	15.4
55°	14.0	14.0	14.0	14.0	14.0
57.5°	12.6	12.6	12.6	12.6	12.6
60°	11.2	11.2	11.2	11.2	11.2
62.5°	9.8	9.8	9.8	9.8	9.8
65°	8.4	8.4	8.4	8.4	8.4
67.5°	8.4	8.4	8.4	8.4	8.4
70°	7.0	7.0	7.0	7.0	7.0
72.5°	5.6	5.6	5.6	5.6	5.6
75°	4.2	4.2	4.2	4.2	5.6
77.5°	4.2	4.2	4.2	4.2	4.2
80°	2.8	2.8	2.8	2.8	2.8
82.5°	2.8	2.8	2.8	2.8	2.8
85°	1.4	1.4	1.4	1.4	1.4
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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