

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: P744834

Luminaire Tested: LD4D25D010-EU4DR1515309035-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P744834
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-EU4DR1515309035-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2326.3 lumens
Efficiency: N/A
Efficacy: 92.7 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): 25.1
Input Voltage (V): NR
Input Current (A_{in}): 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

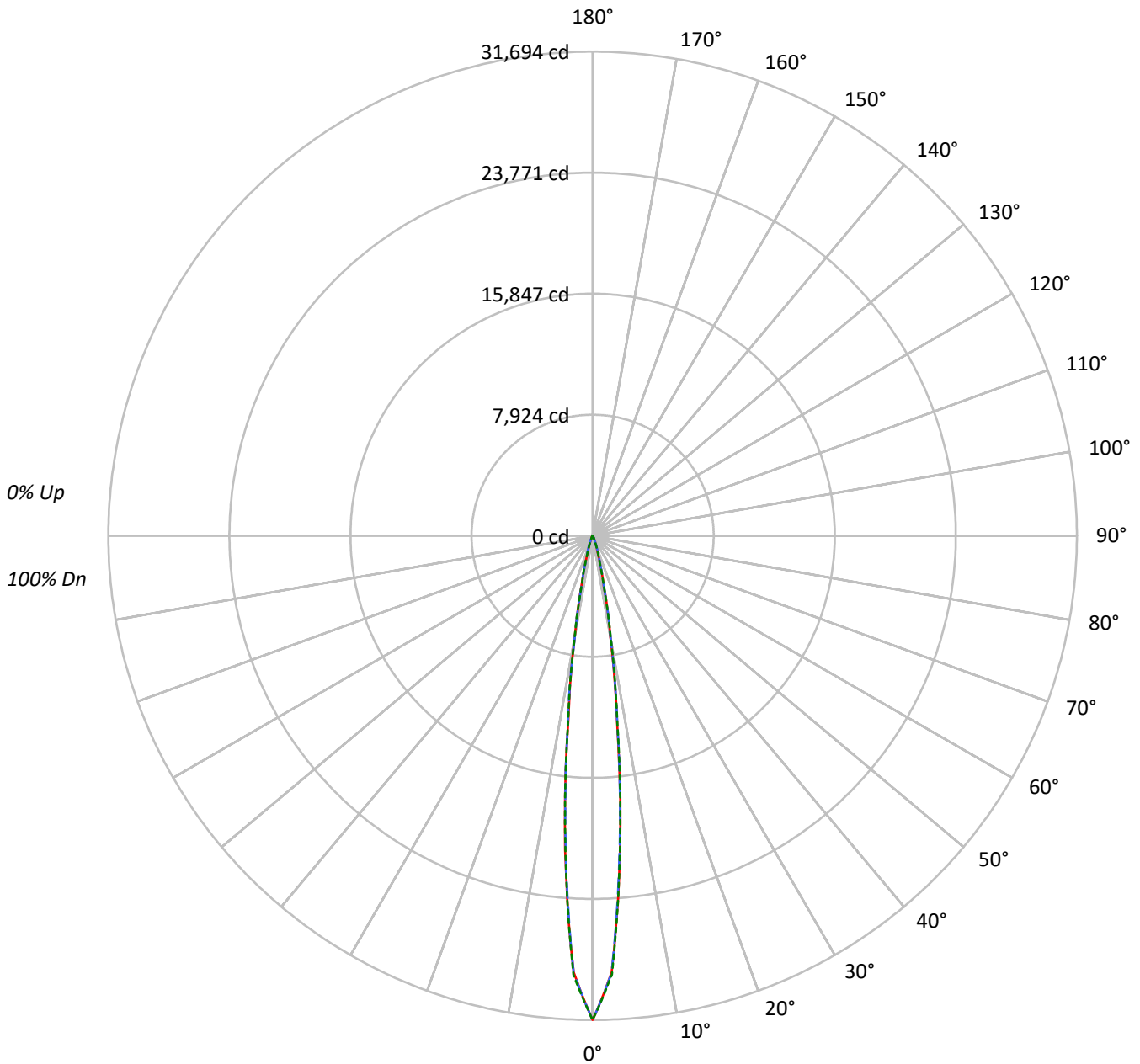


Downlight



TEST NUMBER: P744834
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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°	3566252	3566252	3566252
5°	2095700	2068565	2084927
10°	625469	629845	639493
15°	155578	158609	153711
20°	46549	53905	47539
25°	16414	20901	16616
30°	6028	7937	6125
35°	3021	3413	2927
40°	1903	2095	1903
45°	1407	1505	1407
50°	1120	1120	1120
55°	933	933	933
60°	751	751	751
65°	578	578	578
70°	490	490	490
75°	302	302	408
80°	213	213	213
85°	108	108	108

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1505 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1508.7	64.9
10°-20°	620.6	26.7
20°-30°	123.3	5.3
30°-40°	30.8	1.3
40°-50°	16.2	0.7
50°-60°	12.0	0.5
60°-70°	8.5	0.4
70°-80°	4.8	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°	2252.6	96.8
0°-40°	2283.3	98.2
0°-60°	2311.5	99.4
0°-90°	2326.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2326.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	31694	31694	31694	31694	31694	
5°	20621	20409	20354	20495	20515	1506
15°	1791	1825	1826	1794	1770	614
25°	211	239	268	238	213	111
35°	42	44	47	44	40	28
45°	20	20	22	20	20	16
55°	13	13	13	13	13	12
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°	31694.4	31694.4	31694.4	31694.4	31694.4
2.5°	28589.6	28613.7	28623.1	28651.3	28756.0
5°	20621.1	20409.1	20354.1	20494.9	20515.1
7.5°	12215.1	12258.0	12415.0	12449.9	12323.8
10°	6703.3	6758.3	6750.2	6798.5	6853.6
12.5°	3428.1	3385.2	3371.8	3426.8	3350.3
15°	1791.2	1824.8	1826.1	1793.9	1769.7
17.5°	963.4	1002.3	1066.7	1014.3	933.8
20°	568.9	603.8	658.8	615.9	581.0
22.5°	351.5	379.7	418.6	385.1	356.9
25°	210.7	238.8	268.3	237.5	213.3
27.5°	124.8	148.9	167.7	147.6	123.4
30°	80.5	93.9	106.0	92.6	81.8
32.5°	56.4	61.7	67.1	61.7	56.4
35°	41.6	44.3	47.0	44.3	40.3
37.5°	32.2	34.9	36.2	33.5	30.9
40°	26.8	28.2	29.5	28.2	26.8
42.5°	22.8	24.2	24.2	24.2	22.8
45°	20.1	20.1	21.5	20.1	20.1
47.5°	17.4	17.4	18.8	17.4	17.4
50°	16.1	16.1	16.1	16.1	16.1
52.5°	14.8	14.8	14.8	14.8	14.8
55°	13.4	13.4	13.4	13.4	13.4
57.5°	12.1	12.1	12.1	12.1	12.1
60°	10.7	10.7	10.7	10.7	10.7
62.5°	9.4	9.4	9.4	9.4	9.4
65°	8.1	8.1	8.1	8.1	8.1
67.5°	8.1	8.1	8.1	8.1	8.1
70°	6.7	6.7	6.7	6.7	6.7
72.5°	5.4	5.4	5.4	5.4	5.4
75°	4.0	4.0	4.0	4.0	5.4
77.5°	4.0	4.0	4.0	4.0	4.0
80°	2.7	2.7	2.7	2.7	2.7
82.5°	2.7	2.7	2.7	2.7	2.7
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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