

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: P744846

Luminaire Tested: LD4D25D010-EU4DR1515309035-4LBSQW1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P744846
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-EU4DR1515309035-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2307.6 lumens
Efficiency: N/A
Efficacy: 91.9 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



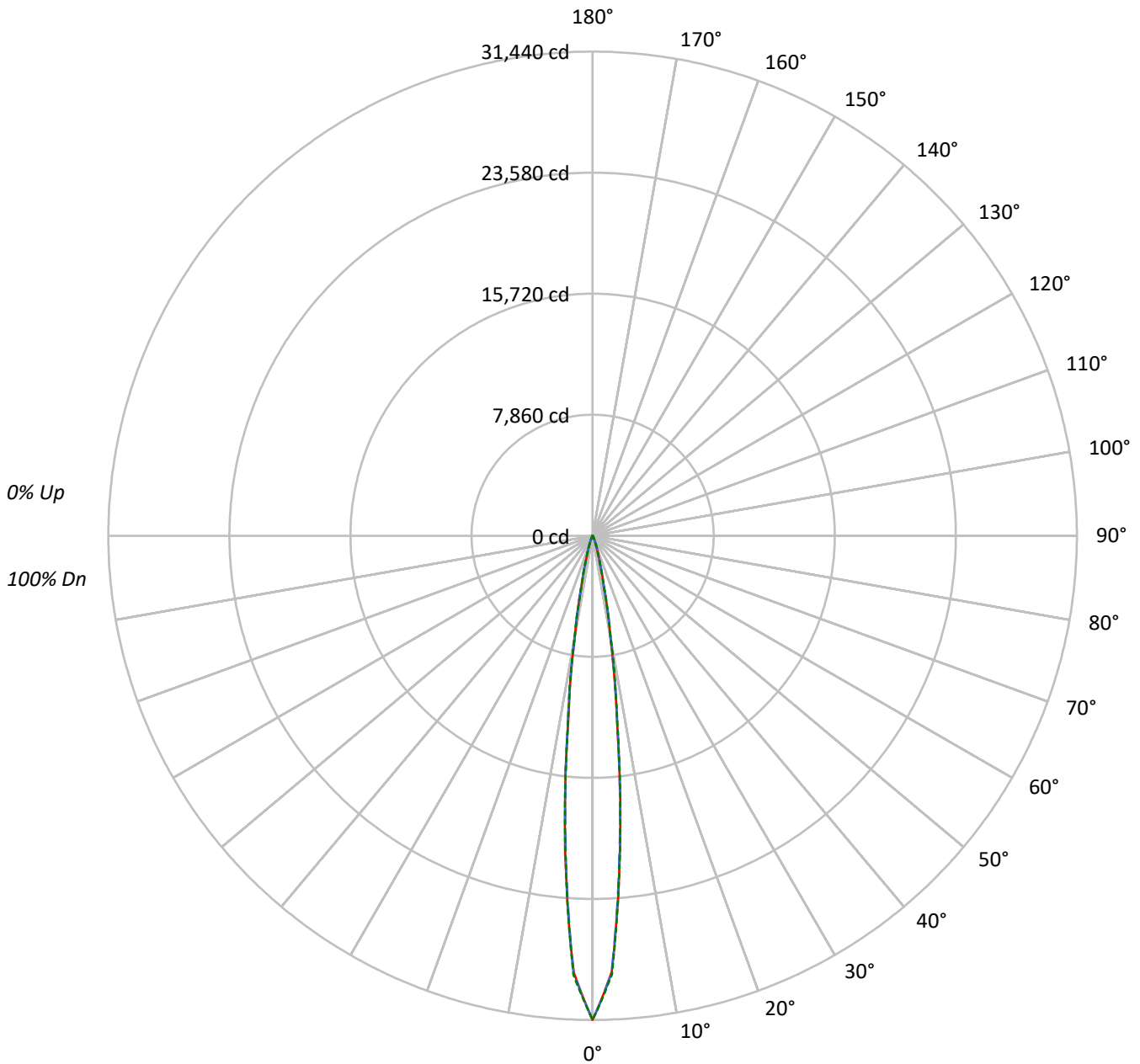
Downlight



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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°	3537683	3537683	3537683
5°	2078911	2051989	2068219
10°	620458	624806	634370
15°	154336	157341	152486
20°	46173	53471	47154
25°	16281	20737	16484
30°	5983	7870	6080
35°	2999	3384	2898
40°	1889	2081	1889
45°	1400	1491	1400
50°	1113	1113	1113
55°	926	926	926
60°	744	744	744
65°	571	571	571
70°	490	490	490
75°	302	302	401
80°	213	213	213
85°	108	108	108

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1491 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1496.6	64.9
10°-20°	615.6	26.7
20°-30°	122.3	5.3
30°-40°	30.5	1.3
40°-50°	16.1	0.7
50°-60°	11.9	0.5
60°-70°	8.4	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°	2234.5	96.8
0°-40°	2265.0	98.2
0°-60°	2293.0	99.4
0°-90°	2307.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2307.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	31440	31440	31440	31440	31440	
5°	20456	20246	20191	20331	20351	1494
15°	1777	1810	1812	1780	1756	609
25°	209	237	266	236	212	110
35°	41	44	47	44	40	28
45°	20	20	21	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°	31440.5	31440.5	31440.5	31440.5	31440.5
2.5°	28360.6	28384.6	28393.9	28421.8	28525.7
5°	20455.9	20245.6	20191.0	20330.8	20350.7
7.5°	12117.3	12159.9	12315.6	12350.2	12225.1
10°	6649.6	6704.2	6696.2	6744.1	6798.7
12.5°	3400.7	3358.1	3344.8	3399.3	3323.5
15°	1776.9	1810.1	1811.5	1779.5	1755.6
17.5°	955.6	994.2	1058.1	1006.2	926.4
20°	564.3	598.9	653.5	610.9	576.3
22.5°	348.7	376.7	415.3	382.0	354.0
25°	209.0	236.9	266.2	235.6	211.6
27.5°	123.8	147.7	166.4	146.4	122.5
30°	79.9	93.2	105.1	91.8	81.2
32.5°	55.9	61.2	66.5	61.2	55.9
35°	41.3	43.9	46.6	43.9	39.9
37.5°	31.9	34.6	35.9	33.3	30.6
40°	26.6	28.0	29.3	28.0	26.6
42.5°	22.6	24.0	24.0	24.0	22.6
45°	20.0	20.0	21.3	20.0	20.0
47.5°	17.3	17.3	18.6	17.3	17.3
50°	16.0	16.0	16.0	16.0	16.0
52.5°	14.6	14.6	14.6	14.6	14.6
55°	13.3	13.3	13.3	13.3	13.3
57.5°	12.0	12.0	12.0	12.0	12.0
60°	10.6	10.6	10.6	10.6	10.6
62.5°	9.3	9.3	9.3	9.3	9.3
65°	8.0	8.0	8.0	8.0	8.0
67.5°	8.0	8.0	8.0	8.0	8.0
70°	6.7	6.7	6.7	6.7	6.7
72.5°	5.3	5.3	5.3	5.3	5.3
75°	4.0	4.0	4.0	4.0	5.3
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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