

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: P744840

Luminaire Tested: LD4D25D010-EU4DR1515309035-4LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P744840
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-EU4DR1515309035-4LBDP1MW
Description: 4 INCH ROUND 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: 2460.6 lumens
Efficiency: N/A
Efficacy: 98.0 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

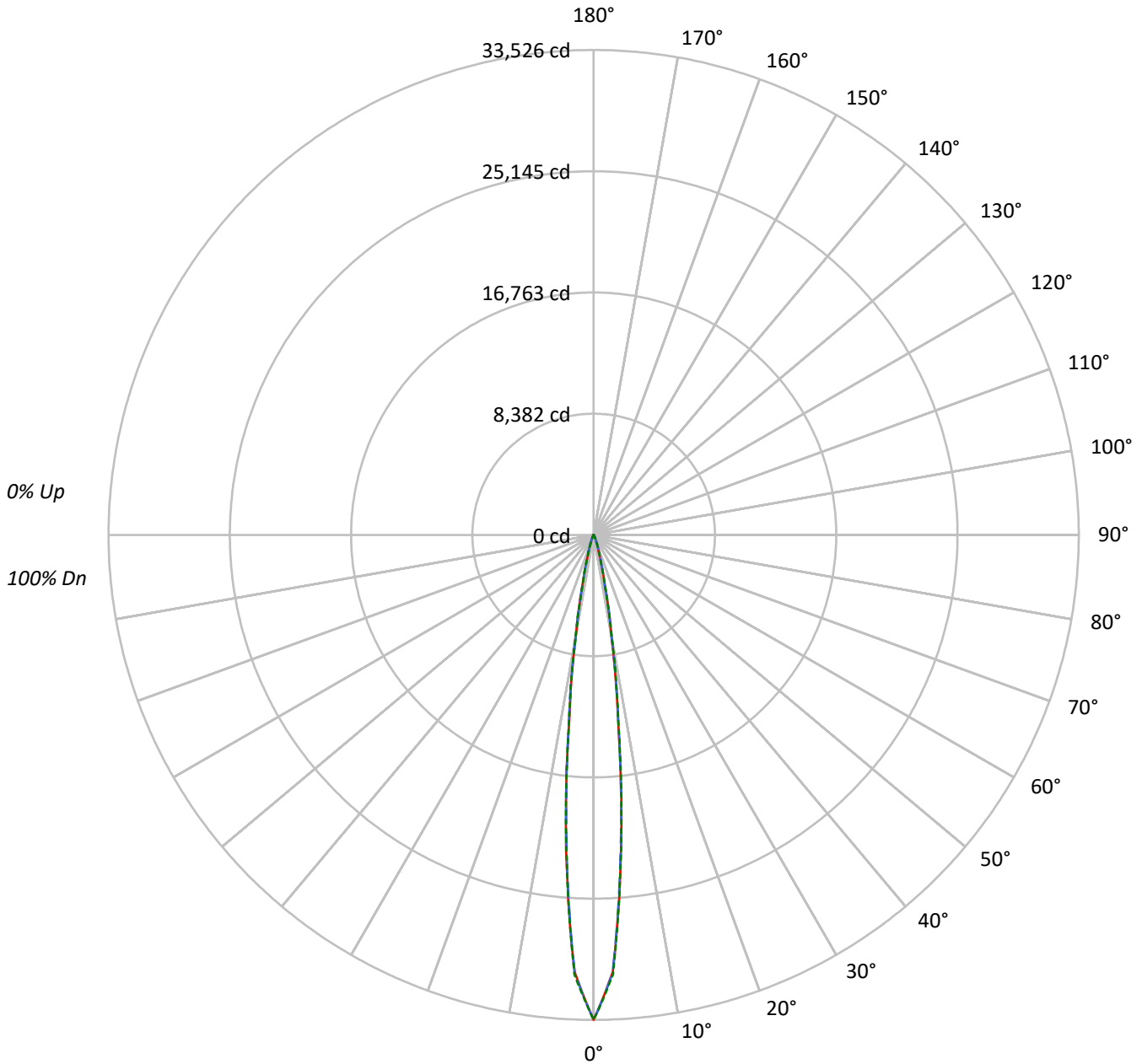


Downlight



TEST NUMBER: P744840
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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°	3772310	3772310	3772310
5°	2216780	2188080	2205388
10°	661607	666244	676443
15°	164568	167773	162596
20°	49241	57022	50280
25°	17356	22116	17582
30°	6380	8394	6485
35°	3195	3609	3094
40°	2017	2216	2017
45°	1491	1589	1491
50°	1182	1182	1182
55°	988	988	988
60°	800	800	800
65°	607	607	607
70°	519	519	519
75°	325	325	431
80°	221	221	221
85°	116	116	116

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1589 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1595.9	64.9
10°-20°	656.4	26.7
20°-30°	130.4	5.3
30°-40°	32.5	1.3
40°-50°	17.1	0.7
50°-60°	12.7	0.5
60°-70°	8.9	0.4
70°-80°	5.1	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°	2382.7	96.8
0°-40°	2415.2	98.2
0°-60°	2445.0	99.4
0°-90°	2460.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2460.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	33526	33526	33526	33526	33526	
5°	21812	21588	21530	21679	21700	1593
15°	1895	1930	1932	1898	1872	650
25°	223	253	284	251	226	117
35°	44	47	50	47	43	30
45°	21	21	23	21	21	17
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°	33525.7	33525.7	33525.7	33525.7	33525.7
2.5°	30241.5	30267.1	30277.0	30306.8	30417.5
5°	21812.5	21588.3	21530.1	21679.1	21700.4
7.5°	12920.9	12966.3	13132.4	13169.3	13035.9
10°	7090.6	7148.8	7140.3	7191.4	7249.6
12.5°	3626.2	3580.8	3566.6	3624.8	3543.9
15°	1894.7	1930.2	1931.6	1897.5	1872.0
17.5°	1019.0	1060.2	1128.3	1073.0	987.8
20°	601.8	638.7	696.9	651.4	614.5
22.5°	371.8	401.6	442.8	407.3	377.5
25°	222.8	252.6	283.9	251.2	225.7
27.5°	132.0	157.5	177.4	156.1	130.6
30°	85.2	99.3	112.1	97.9	86.6
32.5°	59.6	65.3	71.0	65.3	59.6
35°	44.0	46.8	49.7	46.8	42.6
37.5°	34.1	36.9	38.3	35.5	32.6
40°	28.4	29.8	31.2	29.8	28.4
42.5°	24.1	25.5	25.5	25.5	24.1
45°	21.3	21.3	22.7	21.3	21.3
47.5°	18.5	18.5	19.9	18.5	18.5
50°	17.0	17.0	17.0	17.0	17.0
52.5°	15.6	15.6	15.6	15.6	15.6
55°	14.2	14.2	14.2	14.2	14.2
57.5°	12.8	12.8	12.8	12.8	12.8
60°	11.4	11.4	11.4	11.4	11.4
62.5°	9.9	9.9	9.9	9.9	9.9
65°	8.5	8.5	8.5	8.5	8.5
67.5°	8.5	8.5	8.5	8.5	8.5
70°	7.1	7.1	7.1	7.1	7.1
72.5°	5.7	5.7	5.7	5.7	5.7
75°	4.3	4.3	4.3	4.3	5.7
77.5°	4.3	4.3	4.3	4.3	4.3
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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