

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: P744868

Luminaire Tested: LD4D25D010-EU4DR1515309050-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P744868
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-EU4DR1515309050-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2715.8 lumens
Efficiency: N/A
Efficacy: 108.2 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

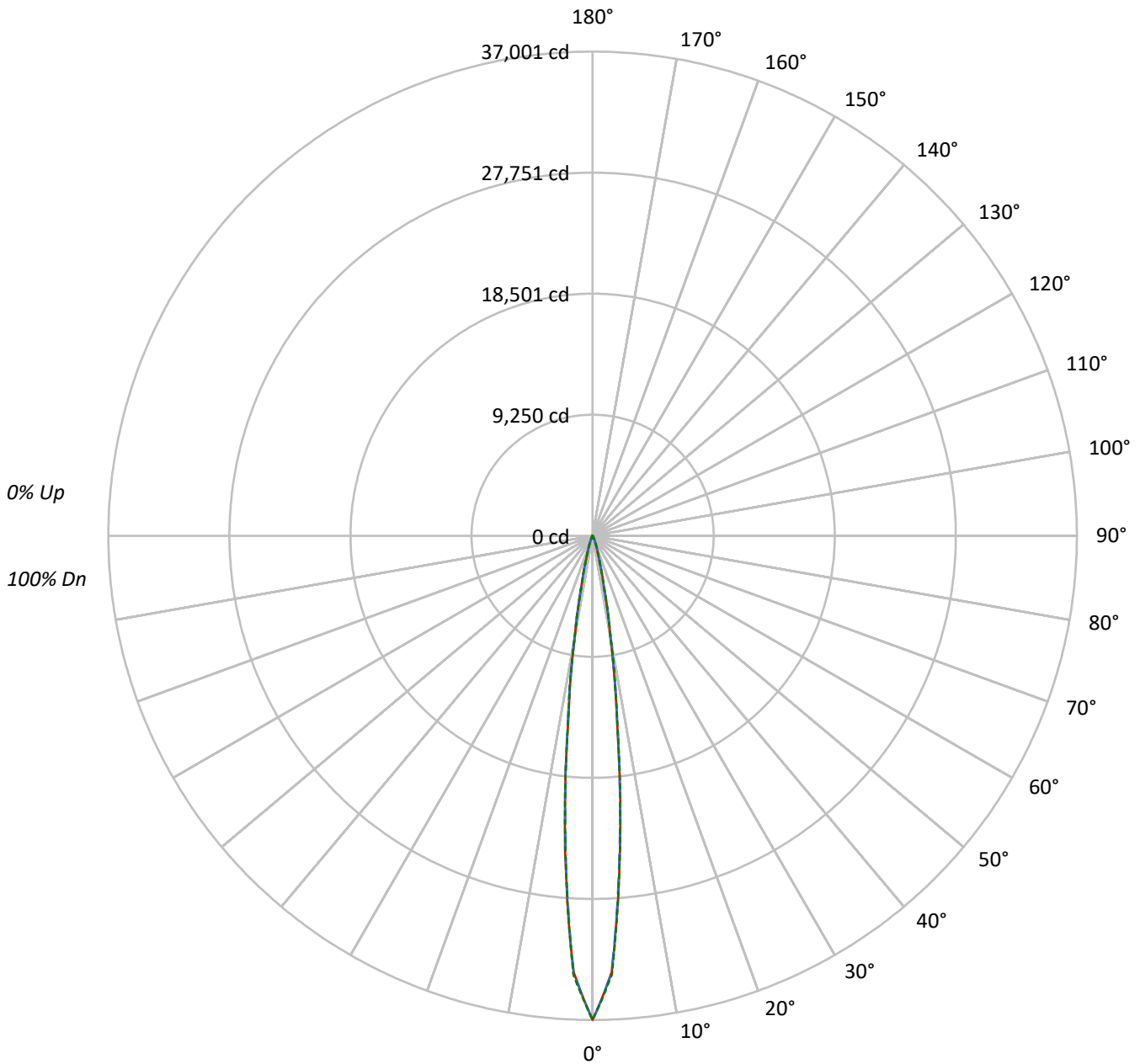


Downlight



TEST NUMBER: P744868
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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°	4163396	4163396	4163396
5°	2446604	2414926	2434033
10°	730197	735310	746573
15°	181626	185170	179455
20°	54347	62930	55492
25°	19156	24406	19405
30°	7039	9263	7159
35°	3529	3980	3413
40°	2223	2450	2223
45°	1645	1757	1645
50°	1307	1307	1307
55°	1093	1093	1093
60°	878	878	878
65°	671	671	671
70°	570	570	570
75°	355	355	476
80°	244	244	244
85°	133	133	133

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1757 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1761.3	64.9
10°-20°	724.5	26.7
20°-30°	143.9	5.3
30°-40°	35.9	1.3
40°-50°	18.9	0.7
50°-60°	14.0	0.5
60°-70°	9.9	0.4
70°-80°	5.6	0.2
80°-90°	1.7	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°	2629.7	96.8
0°-40°	2665.7	98.2
0°-60°	2698.5	99.4
0°-90°	2715.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2715.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	37001	37001	37001	37001	37001	
5°	24074	23826	23762	23927	23950	1758
15°	2091	2130	2132	2094	2066	717
25°	246	279	313	277	249	129
35°	49	52	55	52	47	33
45°	24	24	25	24	24	18
55°	16	16	16	16	16	14
65°	9	9	9	9	9	10
75°	5	5	5	5	6	6
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	37001.4	37001.4	37001.4	37001.4	37001.4
2.5°	33376.8	33405.0	33415.9	33448.8	33571.0
5°	24073.9	23826.5	23762.2	23926.7	23950.2
7.5°	14260.5	14310.6	14493.9	14534.6	14387.3
10°	7825.7	7889.9	7880.5	7936.9	8001.2
12.5°	4002.1	3952.0	3936.4	4000.6	3911.3
15°	2091.1	2130.3	2131.9	2094.3	2066.1
17.5°	1124.7	1170.1	1245.3	1184.2	1090.2
20°	664.2	704.9	769.1	719.0	678.2
22.5°	410.4	443.3	488.7	449.6	416.7
25°	245.9	278.8	313.3	277.3	249.1
27.5°	145.7	173.9	195.8	172.3	144.1
30°	94.0	109.6	123.7	108.1	95.6
32.5°	65.8	72.1	78.3	72.1	65.8
35°	48.6	51.7	54.8	51.7	47.0
37.5°	37.6	40.7	42.3	39.2	36.0
40°	31.3	32.9	34.5	32.9	31.3
42.5°	26.6	28.2	28.2	28.2	26.6
45°	23.5	23.5	25.1	23.5	23.5
47.5°	20.4	20.4	21.9	20.4	20.4
50°	18.8	18.8	18.8	18.8	18.8
52.5°	17.2	17.2	17.2	17.2	17.2
55°	15.7	15.7	15.7	15.7	15.7
57.5°	14.1	14.1	14.1	14.1	14.1
60°	12.5	12.5	12.5	12.5	12.5
62.5°	11.0	11.0	11.0	11.0	11.0
65°	9.4	9.4	9.4	9.4	9.4
67.5°	9.4	9.4	9.4	9.4	9.4
70°	7.8	7.8	7.8	7.8	7.8
72.5°	6.3	6.3	6.3	6.3	6.3
75°	4.7	4.7	4.7	4.7	6.3
77.5°	4.7	4.7	4.7	4.7	4.7
80°	3.1	3.1	3.1	3.1	3.1
82.5°	3.1	3.1	3.1	3.1	3.1
85°	1.6	1.6	1.6	1.6	1.6
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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