

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: P744830

Luminaire Tested: LD4D25D010-EU4DR1515309030-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P744830
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-EU4DR1515309030-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2659.8 lumens
Efficiency: N/A
Efficacy: 106.0 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

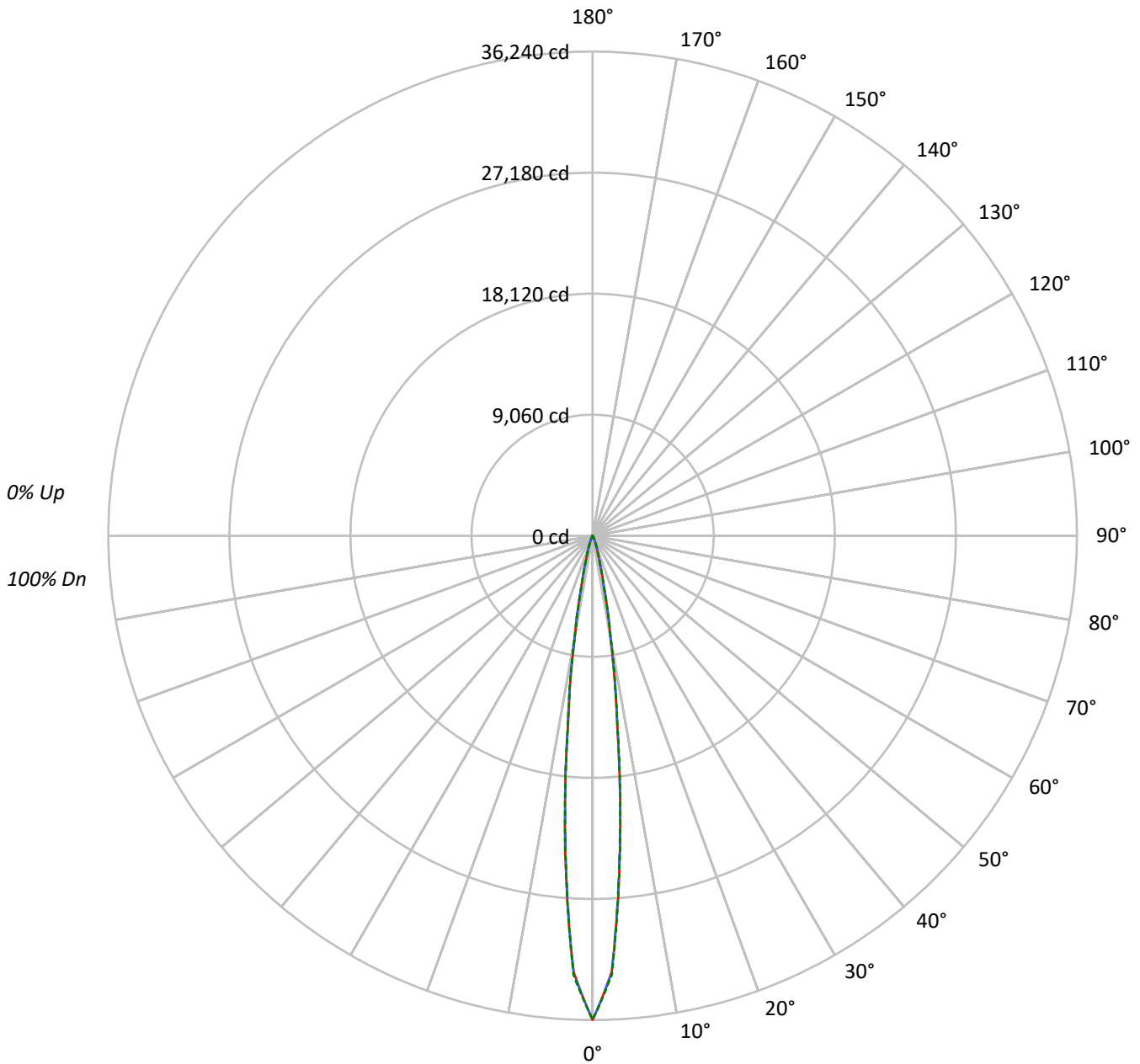


Downlight



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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					70					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°	4077678	4077678	4077678
5°	2396237	2365209	2383919
10°	715165	720176	731196
15°	177891	181357	175755
20°	53226	61637	54355
25°	18766	23900	19000
30°	6889	9076	7009
35°	3457	3900	3340
40°	2180	2400	2180
45°	1610	1715	1610
50°	1279	1279	1279
55°	1065	1065	1065
60°	864	864	864
65°	657	657	657
70°	563	563	563
75°	348	348	461
80°	244	244	244
85°	125	125	125

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1715 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1725.1	64.9
10°-20°	709.6	26.7
20°-30°	140.9	5.3
30°-40°	35.2	1.3
40°-50°	18.5	0.7
50°-60°	13.7	0.5
60°-70°	9.7	0.4
70°-80°	5.5	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°	2575.6	96.8
0°-40°	2610.8	98.2
0°-60°	2643.0	99.4
0°-90°	2659.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2659.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	36240	36240	36240	36240	36240	
5°	23578	23336	23273	23434	23457	1722
15°	2048	2086	2088	2051	2024	702
25°	241	273	307	272	244	126
35°	48	51	54	51	46	32
45°	23	23	24	23	23	18
55°	15	15	15	15	15	14
65°	9	9	9	9	9	10
75°	5	5	5	5	6	5
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°	36239.6	36239.6	36239.6	36239.6	36239.6
2.5°	32689.6	32717.2	32728.0	32760.2	32879.8
5°	23578.3	23335.9	23273.0	23434.1	23457.1
7.5°	13966.9	14016.0	14195.5	14235.3	14091.1
10°	7664.6	7727.5	7718.3	7773.5	7836.4
12.5°	3919.7	3870.7	3855.3	3918.2	3830.8
15°	2048.1	2086.4	2088.0	2051.2	2023.5
17.5°	1101.5	1146.0	1219.6	1159.8	1067.8
20°	650.5	690.4	753.3	704.2	664.3
22.5°	401.9	434.2	478.7	440.3	408.1
25°	240.9	273.1	306.8	271.5	243.9
27.5°	142.7	170.3	191.8	168.8	141.1
30°	92.0	107.4	121.2	105.9	93.6
32.5°	64.4	70.6	76.7	70.6	64.4
35°	47.6	50.6	53.7	50.6	46.0
37.5°	36.8	39.9	41.4	38.4	35.3
40°	30.7	32.2	33.8	32.2	30.7
42.5°	26.1	27.6	27.6	27.6	26.1
45°	23.0	23.0	24.5	23.0	23.0
47.5°	19.9	19.9	21.5	19.9	19.9
50°	18.4	18.4	18.4	18.4	18.4
52.5°	16.9	16.9	16.9	16.9	16.9
55°	15.3	15.3	15.3	15.3	15.3
57.5°	13.8	13.8	13.8	13.8	13.8
60°	12.3	12.3	12.3	12.3	12.3
62.5°	10.7	10.7	10.7	10.7	10.7
65°	9.2	9.2	9.2	9.2	9.2
67.5°	9.2	9.2	9.2	9.2	9.2
70°	7.7	7.7	7.7	7.7	7.7
72.5°	6.1	6.1	6.1	6.1	6.1
75°	4.6	4.6	4.6	4.6	4.6
77.5°	4.6	4.6	4.6	4.6	4.6
80°	3.1	3.1	3.1	3.1	3.1
82.5°	3.1	3.1	3.1	3.1	3.1
85°	1.5	1.5	1.5	1.5	1.5
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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