

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: P778322

Luminaire Tested: LERS4D15D010-EC4DR300215IC9050-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P778322
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LERS4D15D010-EC4DR300215IC9050-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1553.8 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
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



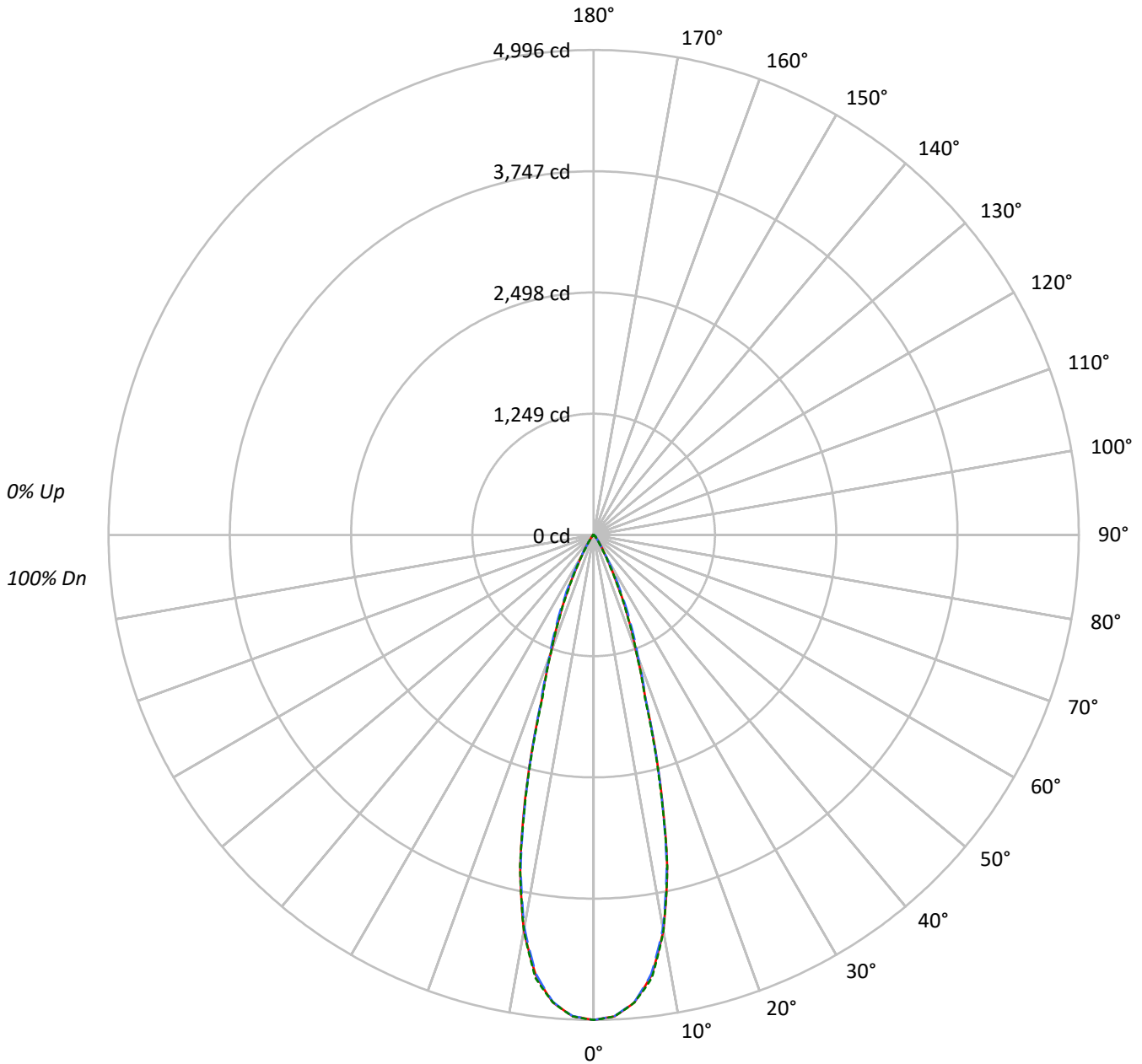
Downlight



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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	382441	382441	382441
5°	371455	371025	371478
10°	321739	319470	321662
15°	209916	208791	207745
20°	104386	108295	104239
25°	52582	59288	51501
30°	21053	22936	18340
35°	9765	9354	7840
40°	4217	4686	3977
45°	2977	3691	2998
50°	1024	2691	1084
55°	587	1121	614
60°	413	490	413
65°	272	272	272
70°	157	112	157
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 3691 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.4	28.3
10°-20°	707.6	45.5
20°-30°	305.8	19.7
30°-40°	69.7	4.5
40°-50°	23.9	1.5
50°-60°	5.8	0.4
60°-70°	1.5	0.1
70°-80°	0.1	0.0
80°-90°	0.0	0.0
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°	1452.7	93.5
0°-40°	1522.4	98.0
0°-60°	1552.2	99.9
0°-90°	1553.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1553.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4996	4996	4996	4996	4996	
5°	4834	4830	4829	4839	4835	440
15°	2649	2617	2635	2626	2622	709
25°	623	646	702	630	610	298
35°	104	107	100	99	84	71
45°	28	34	34	34	28	20
55°	4	5	8	5	5	4
65°	2	2	2	2	2	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4996.4	4996.4	4996.4	4996.4	4996.4
2.5°	4963.2	4959.8	4961.8	4964.2	4965.2
5°	4834.4	4829.8	4828.8	4838.9	4834.7
7.5°	4574.7	4568.1	4558.0	4580.8	4602.2
10°	4139.5	4132.2	4110.3	4121.1	4138.5
12.5°	3497.1	3473.3	3472.8	3507.1	3502.4
15°	2649.0	2617.2	2634.8	2626.2	2621.6
17.5°	1781.4	1769.2	1792.7	1785.5	1754.9
20°	1281.5	1284.7	1329.5	1307.0	1279.7
22.5°	935.1	946.6	999.9	941.7	920.4
25°	622.6	646.1	702.0	629.7	609.8
27.5°	382.9	393.7	450.4	378.0	367.2
30°	238.2	232.8	259.5	222.8	207.5
32.5°	156.2	149.4	158.0	141.8	129.5
35°	104.5	106.7	100.1	99.3	83.9
37.5°	65.3	75.1	66.2	70.6	54.0
40°	42.2	54.4	46.9	51.7	39.8
42.5°	34.6	41.9	38.5	41.0	35.4
45°	27.5	34.1	34.1	34.1	27.7
47.5°	15.2	22.8	29.2	23.3	16.2
50°	8.6	11.5	22.6	12.0	9.1
52.5°	5.9	6.6	15.5	6.9	6.1
55°	4.4	4.6	8.4	4.9	4.6
57.5°	3.4	3.7	4.4	3.7	3.4
60°	2.7	2.7	3.2	2.9	2.7
62.5°	1.9	1.9	2.2	1.9	1.9
65°	1.5	1.5	1.5	1.5	1.5
67.5°	0.7	1.0	1.0	1.0	1.0
70°	0.7	0.5	0.5	0.5	0.7
72.5°	0.5	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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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