

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: P778317

Luminaire Tested: LERS4D15D010-EC4DR300215IC9040-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P778317
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-EC4DR300215IC9040-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1497.5 lumens
Efficiency: N/A
Efficacy: 94.8 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



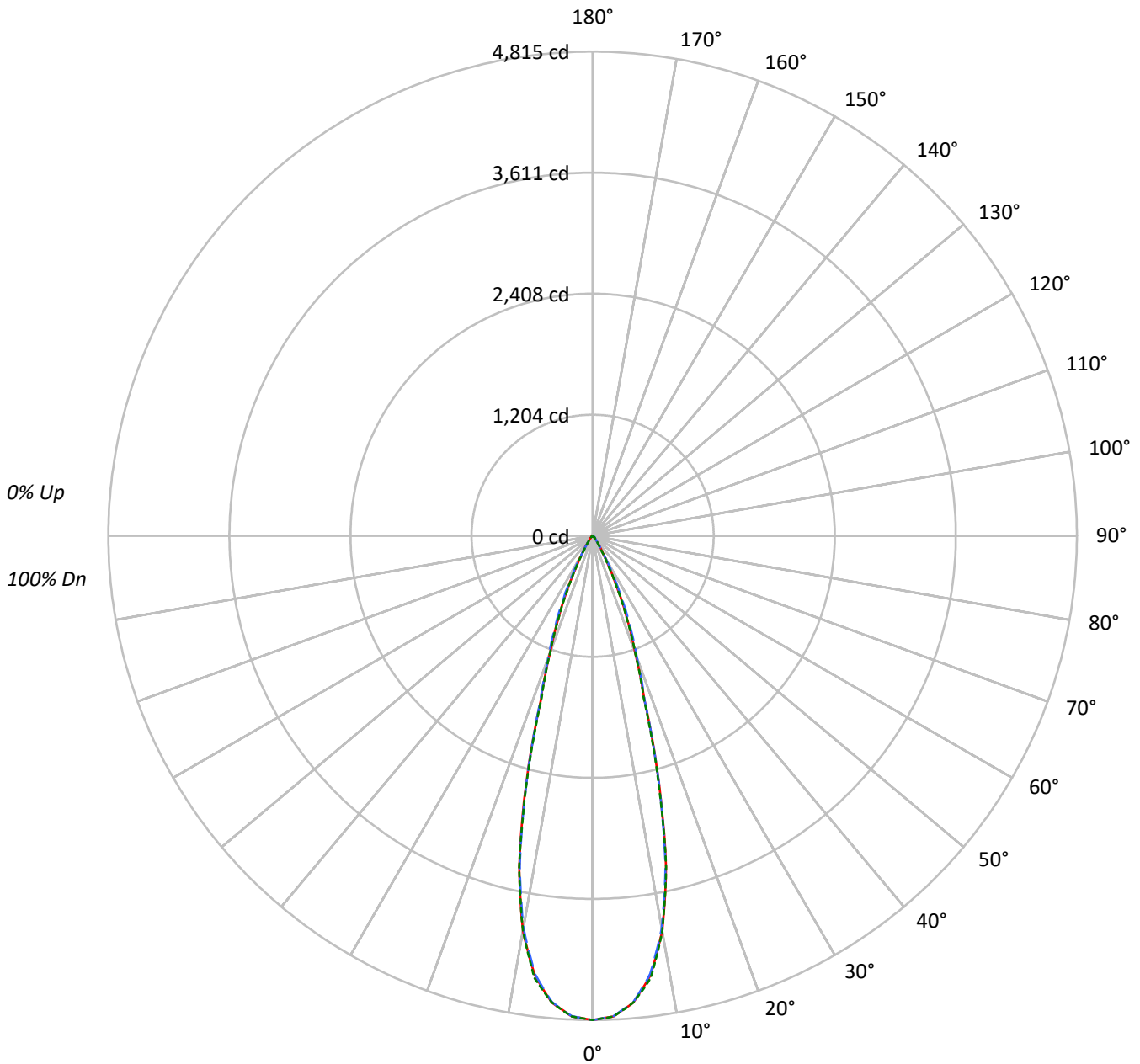
Downlight



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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					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								
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°	368572	368572	368572
5°	357993	357571	358009
10°	310081	307889	310003
15°	202309	201223	200209
20°	100598	104369	100459
25°	50674	57143	49635
30°	20293	22114	17677
35°	9410	9008	7550
40°	4067	4506	3827
45°	2869	3561	2890
50°	988	2596	1048
55°	560	1068	601
60°	398	475	398
65°	254	254	254
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: 3561 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.4	28.3
10°-20°	681.9	45.5
20°-30°	294.7	19.7
30°-40°	67.2	4.5
40°-50°	23.1	1.5
50°-60°	5.6	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°	1400.0	93.5
0°-40°	1467.2	98.0
0°-60°	1495.9	99.9
0°-90°	1497.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1497.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4815	4815	4815	4815	4815	
5°	4659	4655	4654	4663	4659	424
15°	2553	2522	2539	2531	2526	684
25°	600	623	677	607	588	287
35°	101	103	96	96	81	68
45°	26	33	33	33	27	19
55°	4	4	8	5	4	4
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4815.2	4815.2	4815.2	4815.2	4815.2
2.5°	4783.3	4780.0	4781.9	4784.3	4785.2
5°	4659.2	4654.7	4653.7	4663.4	4659.4
7.5°	4408.9	4402.4	4392.8	4414.8	4435.3
10°	3989.5	3982.4	3961.3	3971.7	3988.5
12.5°	3370.3	3347.4	3346.9	3380.0	3375.5
15°	2553.0	2522.2	2539.3	2531.0	2526.5
17.5°	1716.8	1705.0	1727.7	1720.9	1691.3
20°	1235.0	1238.1	1281.3	1259.6	1233.3
22.5°	901.2	912.3	963.6	907.6	887.0
25°	600.0	622.7	676.6	606.9	587.7
27.5°	369.0	379.5	434.1	364.3	353.9
30°	229.6	224.4	250.2	214.7	200.0
32.5°	150.6	144.0	152.2	136.6	124.8
35°	100.7	102.8	96.4	95.7	80.8
37.5°	62.9	72.4	63.8	68.1	52.0
40°	40.7	52.5	45.1	49.9	38.3
42.5°	33.3	40.5	37.1	39.5	34.0
45°	26.5	32.9	32.9	32.9	26.7
47.5°	14.7	22.0	28.1	22.5	15.6
50°	8.3	11.1	21.8	11.6	8.8
52.5°	5.7	6.4	14.9	6.6	5.9
55°	4.2	4.5	8.0	4.8	4.5
57.5°	3.3	3.6	4.2	3.6	3.3
60°	2.6	2.6	3.1	2.9	2.6
62.5°	1.9	1.9	2.1	1.9	1.9
65°	1.4	1.4	1.4	1.4	1.4
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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