

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P778313

Luminaire Tested: LERS4D15D010-EC4DR300215IC9035-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P778313
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-EC4DR300215IC9035-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1457.2 lumens
Efficiency: N/A
Efficacy: 92.2 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 (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



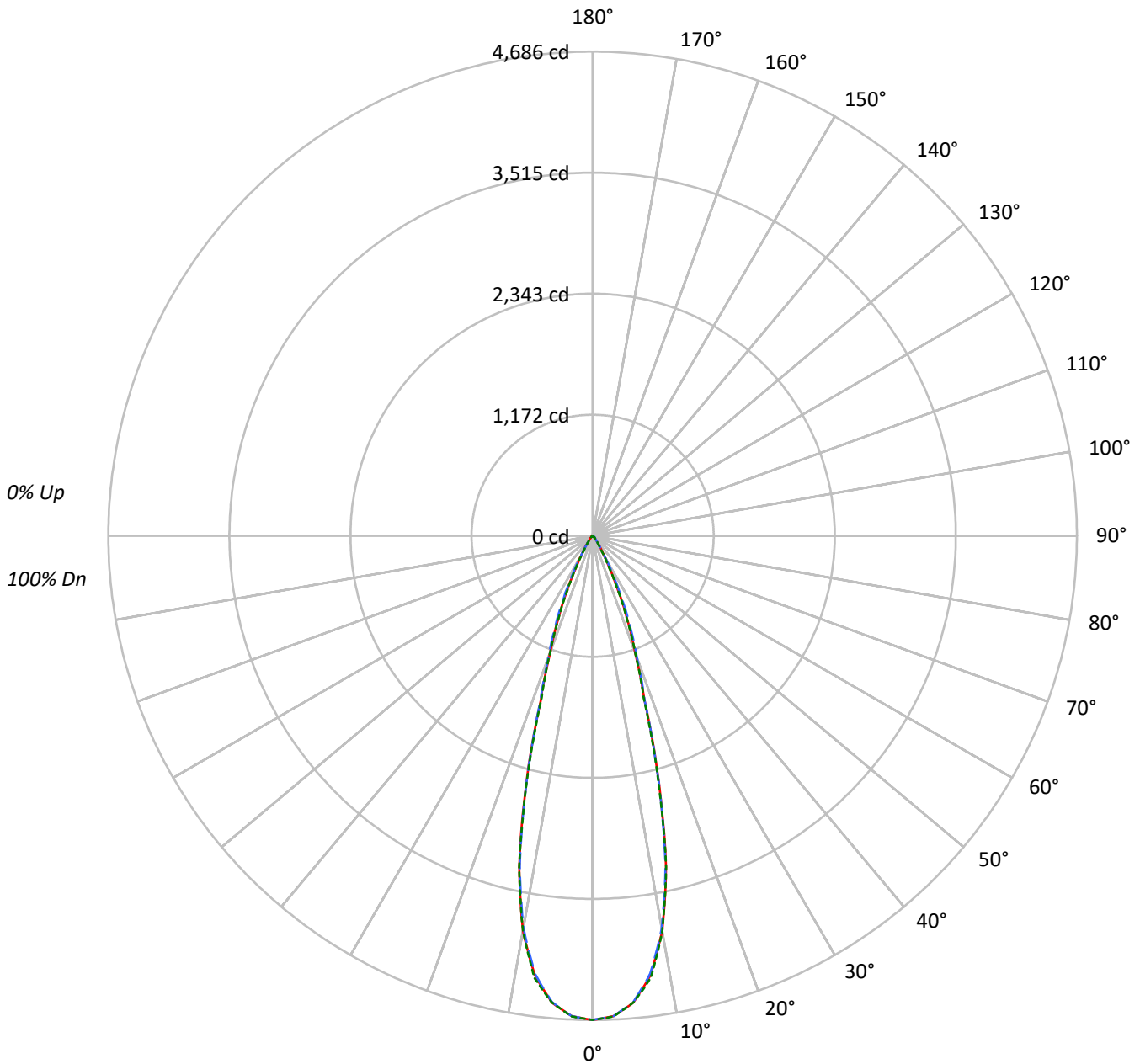
Downlight



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	358652	358652	358652
5°	348358	347951	348373
10°	301733	299603	301663
15°	196865	195811	194820
20°	97894	101567	97763
25°	49314	55606	48301
30°	19745	21513	17200
35°	9157	8765	7354
40°	3957	4387	3717
45°	2793	3464	2814
50°	965	2513	1012
55°	547	1041	587
60°	383	459	383
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: 3464 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.0	28.3
10°-20°	663.6	45.5
20°-30°	286.8	19.7
30°-40°	65.4	4.5
40°-50°	22.4	1.5
50°-60°	5.5	0.4
60°-70°	1.4	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°	1362.4	93.5
0°-40°	1427.7	98.0
0°-60°	1455.6	99.9
0°-90°	1457.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1457.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4686	4686	4686	4686	4686	
5°	4534	4530	4528	4538	4534	412
15°	2484	2454	2471	2463	2458	665
25°	584	606	658	590	572	279
35°	98	100	94	93	79	66
45°	26	32	32	32	26	18
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4685.6	4685.6	4685.6	4685.6	4685.6
2.5°	4654.6	4651.4	4653.2	4655.5	4656.4
5°	4533.8	4529.5	4528.5	4538.0	4534.0
7.5°	4290.2	4284.0	4274.6	4296.0	4316.0
10°	3882.1	3875.2	3854.7	3864.8	3881.2
12.5°	3279.6	3257.3	3256.8	3289.0	3284.7
15°	2484.3	2454.4	2471.0	2462.9	2458.5
17.5°	1670.6	1659.2	1681.2	1674.6	1645.8
20°	1201.8	1204.8	1246.9	1225.7	1200.2
22.5°	877.0	887.8	937.7	883.1	863.2
25°	583.9	606.0	658.4	590.5	571.9
27.5°	359.1	369.2	422.4	354.5	344.4
30°	223.4	218.3	243.4	208.9	194.6
32.5°	146.6	140.1	148.2	133.0	121.5
35°	98.0	100.1	93.8	93.2	78.7
37.5°	61.2	70.4	62.1	66.2	50.6
40°	39.6	51.0	43.9	48.5	37.2
42.5°	32.4	39.4	36.1	38.4	33.1
45°	25.8	32.0	32.0	32.0	26.0
47.5°	14.3	21.4	27.4	21.8	15.2
50°	8.1	10.8	21.1	11.3	8.5
52.5°	5.5	6.2	14.5	6.4	5.7
55°	4.1	4.4	7.8	4.6	4.4
57.5°	3.2	3.4	4.1	3.4	3.2
60°	2.5	2.5	3.0	2.8	2.5
62.5°	1.8	1.8	2.1	1.8	1.8
65°	1.4	1.4	1.4	1.4	1.4
67.5°	0.7	0.9	0.9	0.9	0.9
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

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— 0°-180° - - 45°-225° - - - - 90°-270°

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