

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: P777998

Luminaire Tested: LERS4D10D010-EC4DR300210IC9030-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P777998
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: LERS4D10D010-EC4DR300210IC9030-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1078.6 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): 11.7
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



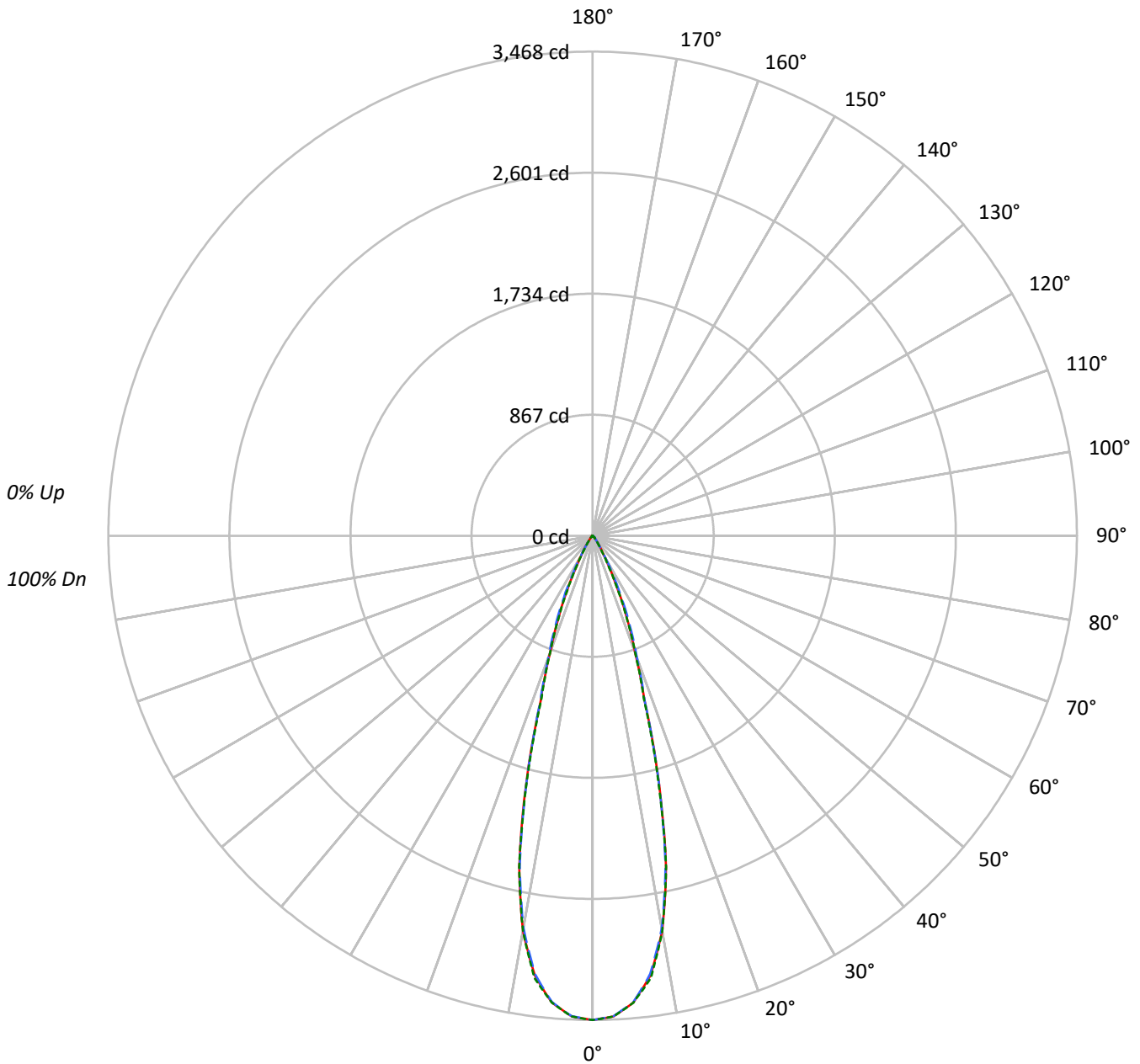
Downlight



TEST NUMBER: P777998

CATALOG NUMBER: LERS4D10D010-EC4DR300210IC9030-4LBS1LI

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°	265483	265483	265483
5°	257853	257554	257869
10°	223340	221770	223286
15°	145721	144936	144207
20°	72463	75176	72365
25°	36502	41164	35759
30°	14619	15918	12727
35°	6775	6494	5438
40°	2928	3247	2758
45°	2068	2565	2089
50°	714	1858	750
55°	400	774	427
60°	291	337	291
65°	181	181	181
70°	112	67	112
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 2565 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.0	28.3
10°-20°	491.2	45.5
20°-30°	212.3	19.7
30°-40°	48.4	4.5
40°-50°	16.6	1.5
50°-60°	4.1	0.4
60°-70°	1.1	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°	1008.4	93.5
0°-40°	1056.8	98.0
0°-60°	1077.5	99.9
0°-90°	1078.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1078.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3468	3468	3468	3468	3468	
5°	3356	3353	3352	3359	3356	305
15°	1839	1817	1829	1823	1820	492
25°	432	448	487	437	423	207
35°	72	74	70	69	58	49
45°	19	24	24	24	19	14
55°	3	3	6	3	3	3
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°	3468.4	3468.4	3468.4	3468.4	3468.4
2.5°	3445.3	3443.0	3444.4	3446.0	3446.7
5°	3355.9	3352.7	3352.0	3359.0	3356.1
7.5°	3175.6	3171.0	3164.1	3179.9	3194.7
10°	2873.5	2868.4	2853.3	2860.7	2872.8
12.5°	2427.5	2411.0	2410.7	2434.5	2431.3
15°	1838.9	1816.8	1829.0	1823.1	1819.8
17.5°	1236.6	1228.1	1244.4	1239.5	1218.2
20°	889.6	891.8	922.9	907.3	888.4
22.5°	649.1	657.1	694.1	653.7	638.9
25°	432.2	448.5	487.4	437.1	423.4
27.5°	265.8	273.3	312.7	262.4	254.9
30°	165.4	161.6	180.1	154.6	144.0
32.5°	108.5	103.7	109.7	98.4	89.9
35°	72.5	74.1	69.5	69.0	58.2
37.5°	45.3	52.1	46.0	49.0	37.5
40°	29.3	37.8	32.5	35.9	27.6
42.5°	24.0	29.1	26.8	28.4	24.5
45°	19.1	23.7	23.7	23.7	19.3
47.5°	10.5	15.8	20.3	16.2	11.2
50°	6.0	8.0	15.6	8.4	6.3
52.5°	4.1	4.6	10.7	4.8	4.2
55°	3.0	3.2	5.8	3.4	3.2
57.5°	2.4	2.6	3.0	2.6	2.4
60°	1.9	1.9	2.2	2.1	1.9
62.5°	1.4	1.4	1.5	1.4	1.4
65°	1.0	1.0	1.0	1.0	1.0
67.5°	0.5	0.7	0.7	0.7	0.7
70°	0.5	0.3	0.3	0.3	0.5
72.5°	0.3	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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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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