

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: P777990

Luminaire Tested: LERS4D10D010-EC4DR300210IC9024-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P777990
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-EC4DR300210IC9024-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 941.1 lumens
Efficiency: N/A
Efficacy: 80.4 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



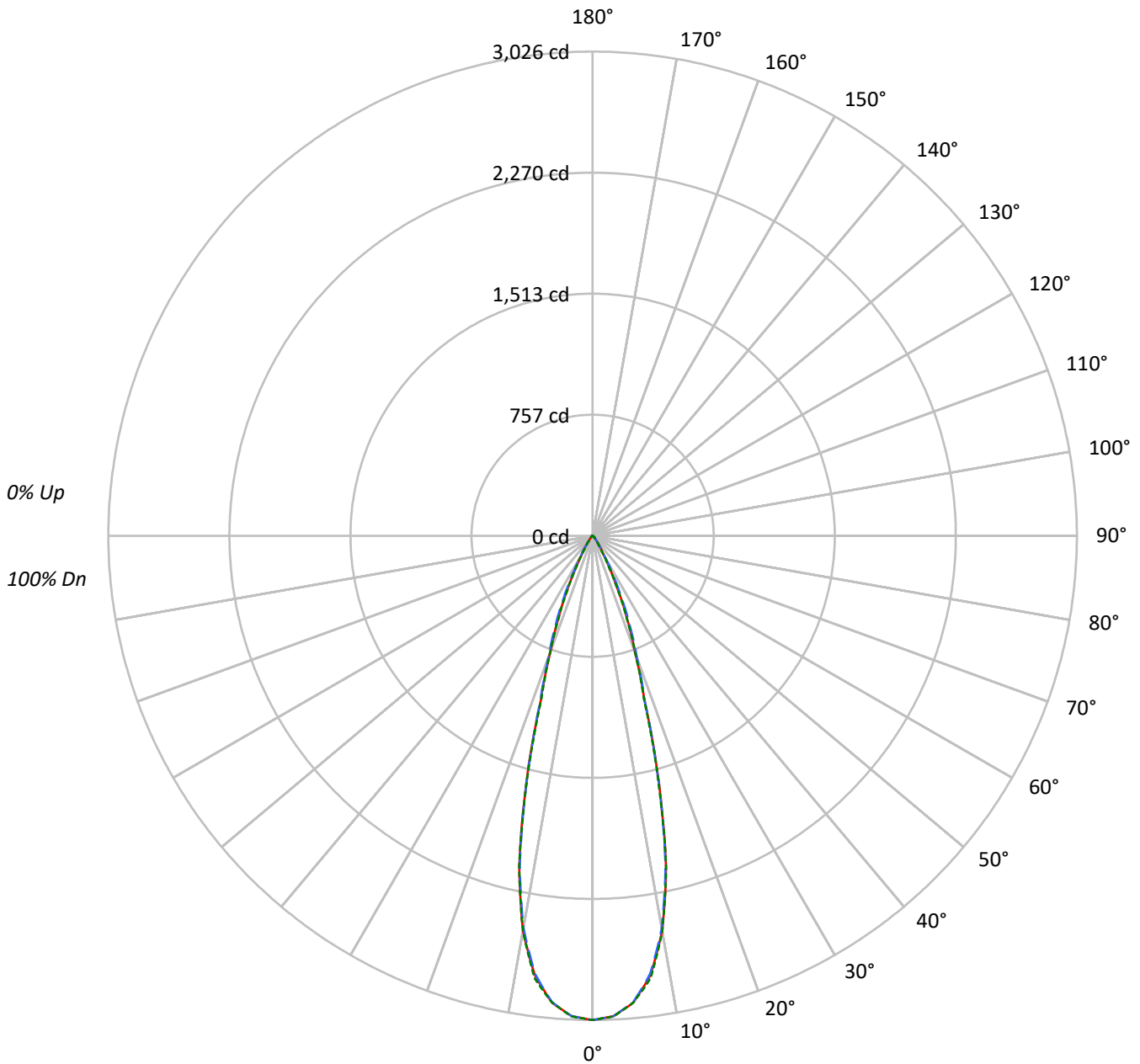
Downlight



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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°	231613	231613	231613
5°	224960	224699	224975
10°	194847	193479	194808
15°	127130	126449	125807
20°	63218	65588	63128
25°	31848	35911	31190
30°	12754	13894	11110
35°	5915	5663	4747
40°	2558	2838	2408
45°	1797	2230	1819
50°	619	1631	655
55°	360	667	374
60°	260	291	260
65°	163	163	163
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: 2230 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.1	28.3
10°-20°	428.5	45.5
20°-30°	185.2	19.7
30°-40°	42.2	4.5
40°-50°	14.5	1.5
50°-60°	3.5	0.4
60°-70°	0.9	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°	879.8	93.5
0°-40°	922.0	98.0
0°-60°	940.0	99.9
0°-90°	941.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	941.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3026	3026	3026	3026	3026	
5°	2928	2925	2924	2930	2928	266
15°	1604	1585	1596	1590	1588	430
25°	377	391	425	381	369	180
35°	63	65	61	60	51	43
45°	17	21	21	21	17	12
55°	3	3	5	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°	3025.9	3025.9	3025.9	3025.9	3025.9
2.5°	3005.8	3003.8	3005.0	3006.4	3007.0
5°	2927.8	2925.0	2924.4	2930.5	2928.0
7.5°	2770.5	2766.5	2760.4	2774.2	2787.2
10°	2506.9	2502.5	2489.3	2495.8	2506.4
12.5°	2117.9	2103.5	2103.2	2124.0	2121.2
15°	1604.3	1585.0	1595.7	1590.5	1587.6
17.5°	1078.9	1071.4	1085.7	1081.4	1062.8
20°	776.1	778.0	805.2	791.5	775.0
22.5°	566.3	573.3	605.6	570.3	557.4
25°	377.1	391.3	425.2	381.4	369.3
27.5°	231.9	238.5	272.8	229.0	222.4
30°	144.3	141.0	157.2	134.9	125.7
32.5°	94.7	90.5	95.7	85.9	78.4
35°	63.3	64.6	60.6	60.2	50.8
37.5°	39.5	45.4	40.1	42.8	32.7
40°	25.6	33.0	28.4	31.3	24.1
42.5°	21.0	25.4	23.3	24.8	21.4
45°	16.6	20.6	20.6	20.6	16.8
47.5°	9.2	13.8	17.7	14.1	9.8
50°	5.2	7.0	13.7	7.3	5.5
52.5°	3.6	4.0	9.3	4.2	3.7
55°	2.7	2.8	5.0	3.0	2.8
57.5°	2.1	2.2	2.7	2.2	2.1
60°	1.7	1.7	1.9	1.8	1.7
62.5°	1.2	1.2	1.3	1.2	1.2
65°	0.9	0.9	0.9	0.9	0.9
67.5°	0.5	0.6	0.6	0.6	0.6
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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— 0°-180° - - 45°-225° - - - - 90°-270°

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