

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: P777682

Luminaire Tested: LERS4D08D010-EC4DR300210IC9027-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P777682
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: LERS4D08D010-EC4DR300210IC9027-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 781.3 lumens
Efficiency: N/A
Efficacy: 87.8 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): 8.9
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



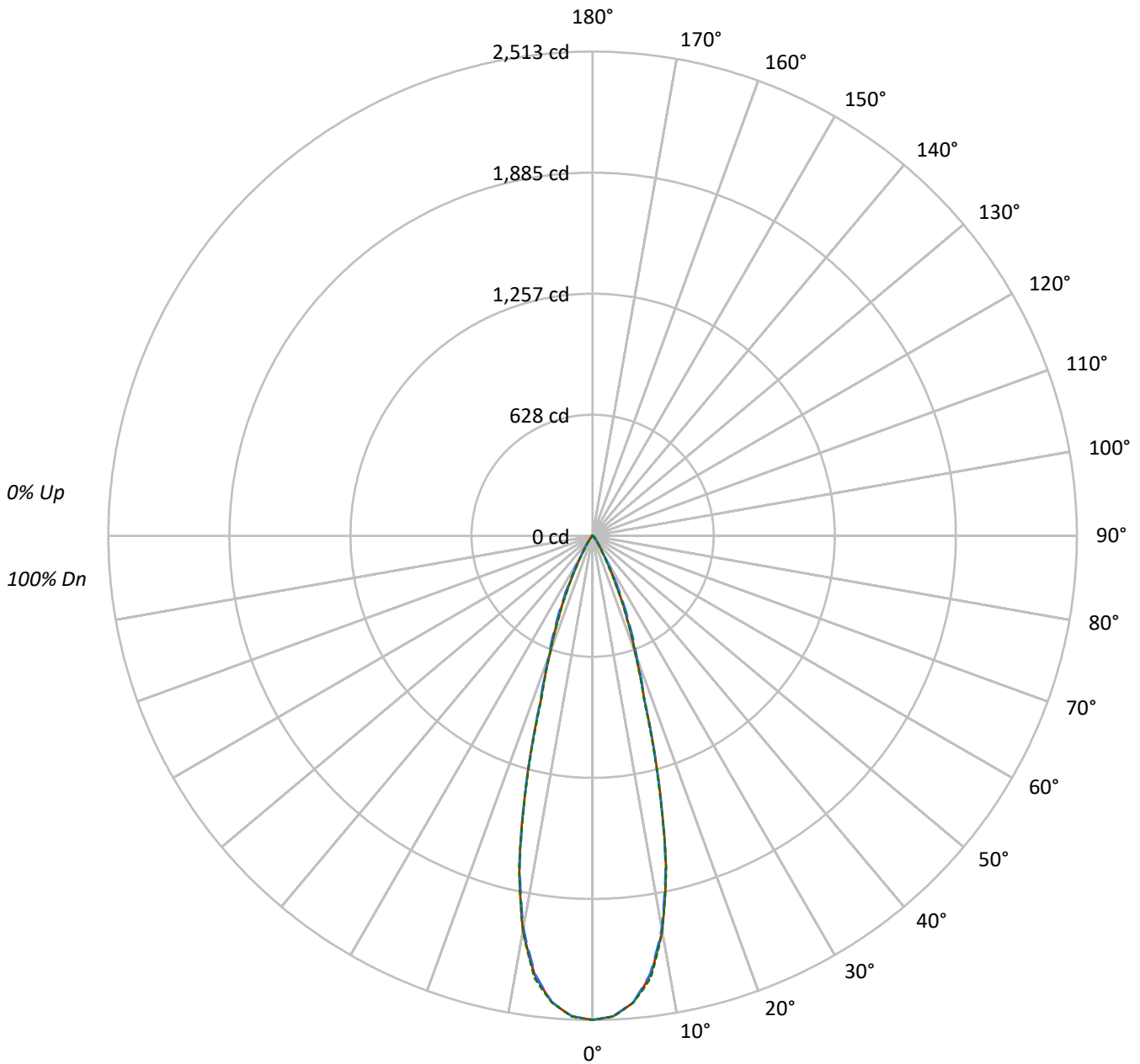
Downlight



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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	87	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°	192323	192323	192323
5°	186795	186580	186811
10°	161791	160656	161760
15°	105560	104998	104467
20°	52490	54461	52417
25°	26443	29822	25894
30°	10588	11534	9219
35°	4906	4700	3943
40°	2118	2348	1998
45°	1494	1851	1505
50°	512	1346	548
55°	294	560	307
60°	214	245	214
65°	127	127	127
70°	67	45	67
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 1851 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.9	28.3
10°-20°	355.8	45.5
20°-30°	153.8	19.7
30°-40°	35.0	4.5
40°-50°	12.0	1.5
50°-60°	2.9	0.4
60°-70°	0.7	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°	730.5	93.5
0°-40°	765.6	98.0
0°-60°	780.5	99.9
0°-90°	781.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	781.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2513	2513	2513	2513	2513	
5°	2431	2429	2428	2433	2431	221
15°	1332	1316	1325	1321	1318	357
25°	313	325	353	317	307	150
35°	52	54	50	50	42	36
45°	14	17	17	17	14	10
55°	2	2	4	2	2	2
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°	2512.6	2512.6	2512.6	2512.6	2512.6
2.5°	2495.9	2494.2	2495.1	2496.4	2496.9
5°	2431.1	2428.8	2428.3	2433.4	2431.3
7.5°	2300.5	2297.2	2292.1	2303.6	2314.3
10°	2081.6	2078.0	2067.0	2072.4	2081.2
12.5°	1758.6	1746.6	1746.4	1763.7	1761.3
15°	1332.1	1316.1	1325.0	1320.7	1318.3
17.5°	895.8	889.7	901.5	897.9	882.5
20°	644.4	646.0	668.6	657.2	643.5
22.5°	470.2	476.1	502.8	473.5	462.8
25°	313.1	324.9	353.1	316.7	306.6
27.5°	192.6	198.0	226.5	190.1	184.7
30°	119.8	117.1	130.5	112.0	104.3
32.5°	78.6	75.1	79.5	71.3	65.1
35°	52.5	53.7	50.3	50.0	42.2
37.5°	32.8	37.8	33.3	35.5	27.2
40°	21.2	27.4	23.5	26.0	20.0
42.5°	17.4	21.1	19.4	20.6	17.8
45°	13.8	17.1	17.1	17.1	13.9
47.5°	7.6	11.5	14.7	11.7	8.1
50°	4.3	5.8	11.3	6.0	4.6
52.5°	3.0	3.3	7.8	3.4	3.1
55°	2.2	2.3	4.2	2.5	2.3
57.5°	1.7	1.8	2.2	1.8	1.7
60°	1.4	1.4	1.6	1.5	1.4
62.5°	1.0	1.0	1.1	1.0	1.0
65°	0.7	0.7	0.7	0.7	0.7
67.5°	0.3	0.5	0.5	0.5	0.5
70°	0.3	0.2	0.2	0.2	0.3
72.5°	0.2	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	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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