

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: P777989

Luminaire Tested: LERS4D10D010-EC4DR300210IC9024-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P777989
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-EC4DR300210IC9024-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-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: 896.2 lumens
Efficiency: N/A
Efficacy: 76.6 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 (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



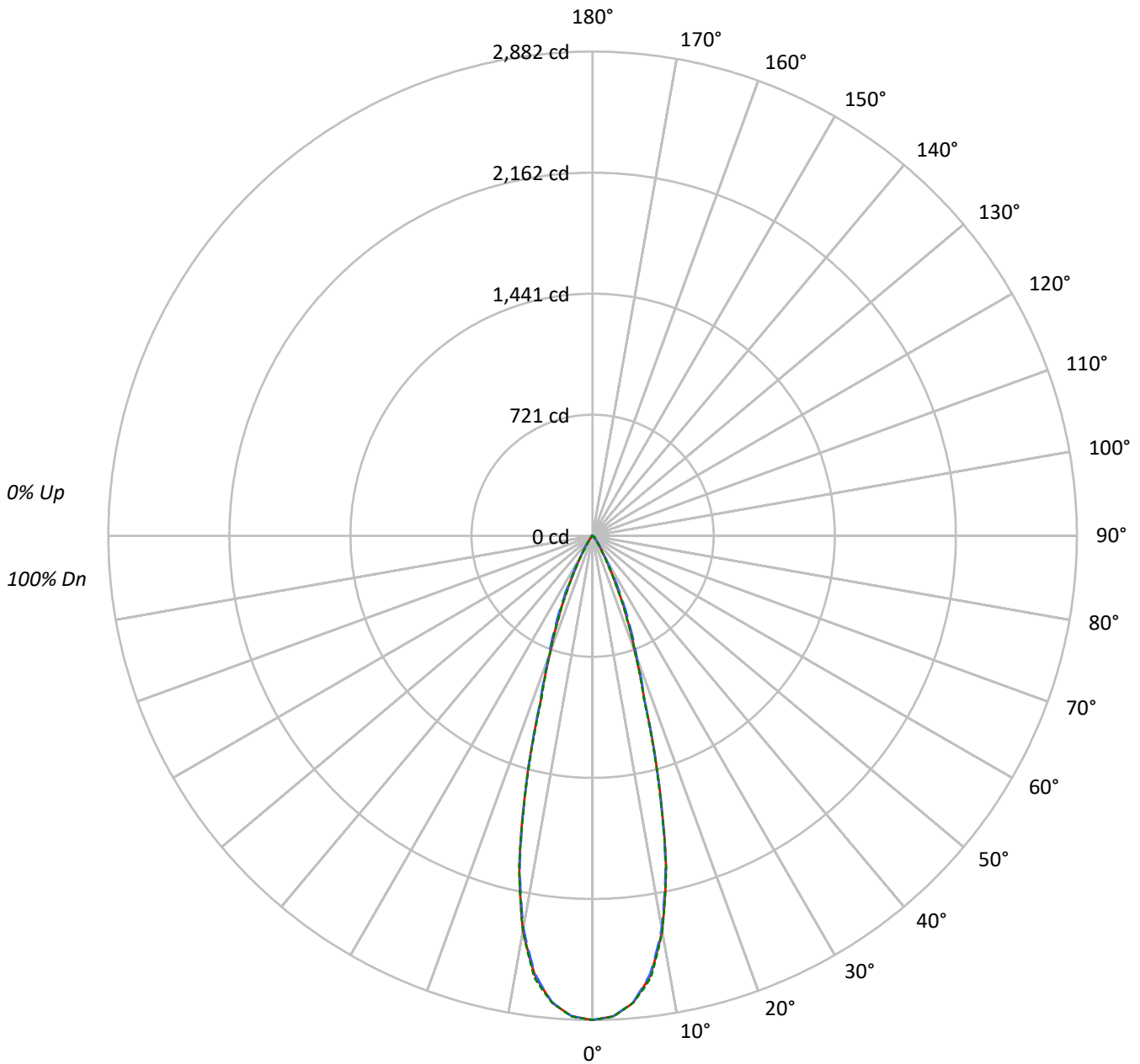
Downlight



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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	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°	220583	220583	220583
5°	214249	214003	214264
10°	185574	184269	185528
15°	121076	120426	119824
20°	60204	62460	60123
25°	30328	34205	29703
30°	12144	13231	10580
35°	5635	5401	4523
40°	2438	2698	2288
45°	1721	2132	1732
50°	583	1548	619
55°	334	641	360
60°	230	276	230
65°	163	163	163
70°	90	67	90
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 2132 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.4	28.3
10°-20°	408.1	45.5
20°-30°	176.4	19.7
30°-40°	40.2	4.5
40°-50°	13.8	1.5
50°-60°	3.4	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°	837.9	93.5
0°-40°	878.1	98.0
0°-60°	895.2	99.9
0°-90°	896.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	896.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2882	2882	2882	2882	2882	
5°	2788	2786	2785	2791	2789	254
15°	1528	1510	1520	1515	1512	409
25°	359	373	405	363	352	172
35°	60	62	58	57	48	41
45°	16	20	20	20	16	11
55°	2	3	5	3	3	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°	2881.8	2881.8	2881.8	2881.8	2881.8
2.5°	2862.7	2860.7	2861.8	2863.3	2863.8
5°	2788.4	2785.7	2785.2	2791.0	2788.6
7.5°	2638.6	2634.8	2629.0	2642.1	2654.4
10°	2387.6	2383.4	2370.8	2377.0	2387.0
12.5°	2017.0	2003.3	2003.0	2022.9	2020.2
15°	1527.9	1509.5	1519.7	1514.8	1512.1
17.5°	1027.5	1020.4	1034.0	1029.9	1012.2
20°	739.1	740.9	766.8	753.8	738.1
22.5°	539.3	546.0	576.7	543.2	530.8
25°	359.1	372.6	405.0	363.2	351.7
27.5°	220.9	227.1	259.8	218.0	211.8
30°	137.4	134.2	149.7	128.5	119.7
32.5°	90.1	86.2	91.1	81.8	74.7
35°	60.3	61.5	57.8	57.3	48.4
37.5°	37.6	43.3	38.2	40.7	31.1
40°	24.4	31.4	27.0	29.9	22.9
42.5°	19.9	24.2	22.2	23.6	20.4
45°	15.9	19.7	19.7	19.7	16.0
47.5°	8.8	13.2	16.8	13.5	9.3
50°	4.9	6.6	13.0	6.9	5.2
52.5°	3.4	3.8	8.9	4.0	3.6
55°	2.5	2.7	4.8	2.8	2.7
57.5°	2.0	2.1	2.5	2.1	2.0
60°	1.5	1.5	1.8	1.7	1.5
62.5°	1.1	1.1	1.3	1.1	1.1
65°	0.9	0.9	0.9	0.9	0.9
67.5°	0.4	0.6	0.6	0.6	0.6
70°	0.4	0.3	0.3	0.3	0.4
72.5°	0.3	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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