

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: P777993

Luminaire Tested: LERS4D10D010-EC4DR300210IC9027-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P777993
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-EC4DR300210IC9027-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-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: 994.9 lumens
Efficiency: N/A
Efficacy: 85.0 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



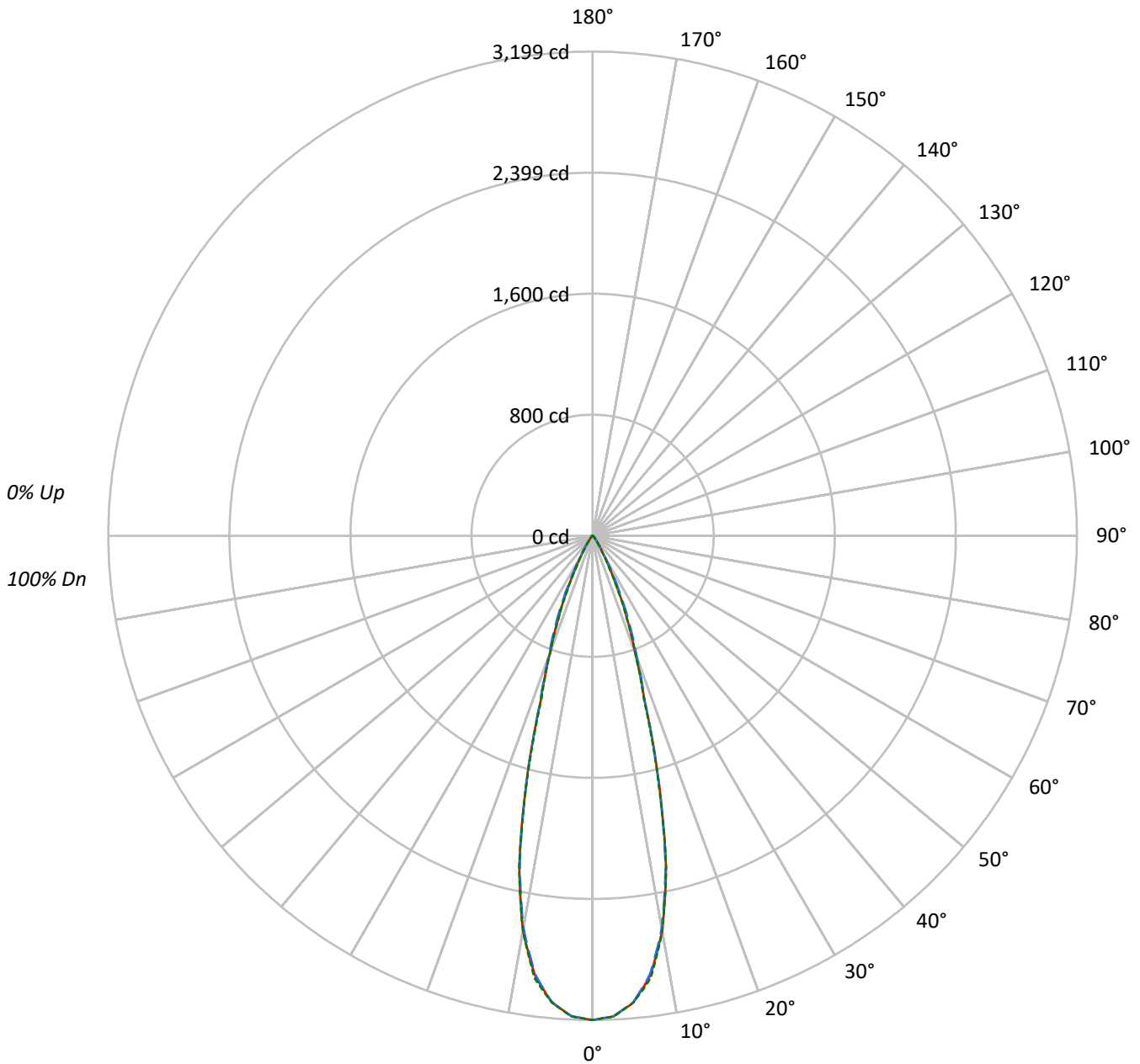
Downlight



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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	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°	244862	244862	244862
5°	237837	237561	237845
10°	206000	204547	205954
15°	134405	133684	133010
20°	66834	69343	66745
25°	33664	37963	32980
30°	13479	14690	11746
35°	6251	5990	5018
40°	2698	2998	2538
45°	1905	2360	1927
50°	655	1715	691
55°	374	707	400
60°	260	321	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: 2360 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.3	28.3
10°-20°	453.0	45.5
20°-30°	195.8	19.7
30°-40°	44.6	4.5
40°-50°	15.3	1.5
50°-60°	3.7	0.4
60°-70°	1.0	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°	930.1	93.5
0°-40°	974.7	98.0
0°-60°	993.8	99.9
0°-90°	994.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	994.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3199	3199	3199	3199	3199	
5°	3095	3092	3092	3098	3096	282
15°	1696	1676	1687	1682	1678	454
25°	399	414	450	403	390	191
35°	67	68	64	64	54	45
45°	18	22	22	22	18	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°	3199.0	3199.0	3199.0	3199.0	3199.0
2.5°	3177.8	3175.6	3176.9	3178.4	3179.1
5°	3095.4	3092.4	3091.8	3098.2	3095.5
7.5°	2929.0	2924.8	2918.3	2932.9	2946.6
10°	2650.4	2645.7	2631.7	2638.6	2649.8
12.5°	2239.1	2223.9	2223.5	2245.5	2242.5
15°	1696.1	1675.7	1687.0	1681.5	1678.5
17.5°	1140.6	1132.7	1147.8	1143.3	1123.6
20°	820.5	822.5	851.3	836.8	819.4
22.5°	598.7	606.1	640.2	603.0	589.3
25°	398.6	413.7	449.5	403.2	390.5
27.5°	245.2	252.1	288.4	242.0	235.1
30°	152.5	149.0	166.2	142.6	132.9
32.5°	100.0	95.6	101.1	90.8	82.9
35°	66.9	68.3	64.1	63.6	53.7
37.5°	41.8	48.1	42.4	45.2	34.5
40°	27.0	34.9	30.0	33.1	25.4
42.5°	22.2	26.9	24.6	26.2	22.6
45°	17.6	21.8	21.8	21.8	17.8
47.5°	9.7	14.6	18.7	14.9	10.4
50°	5.5	7.4	14.4	7.7	5.8
52.5°	3.8	4.2	9.9	4.4	4.0
55°	2.8	3.0	5.3	3.2	3.0
57.5°	2.2	2.3	2.8	2.3	2.2
60°	1.7	1.7	2.1	1.9	1.7
62.5°	1.3	1.3	1.4	1.3	1.3
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

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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