

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: P1307182

Luminaire Tested: LDSQA3D13R409024DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

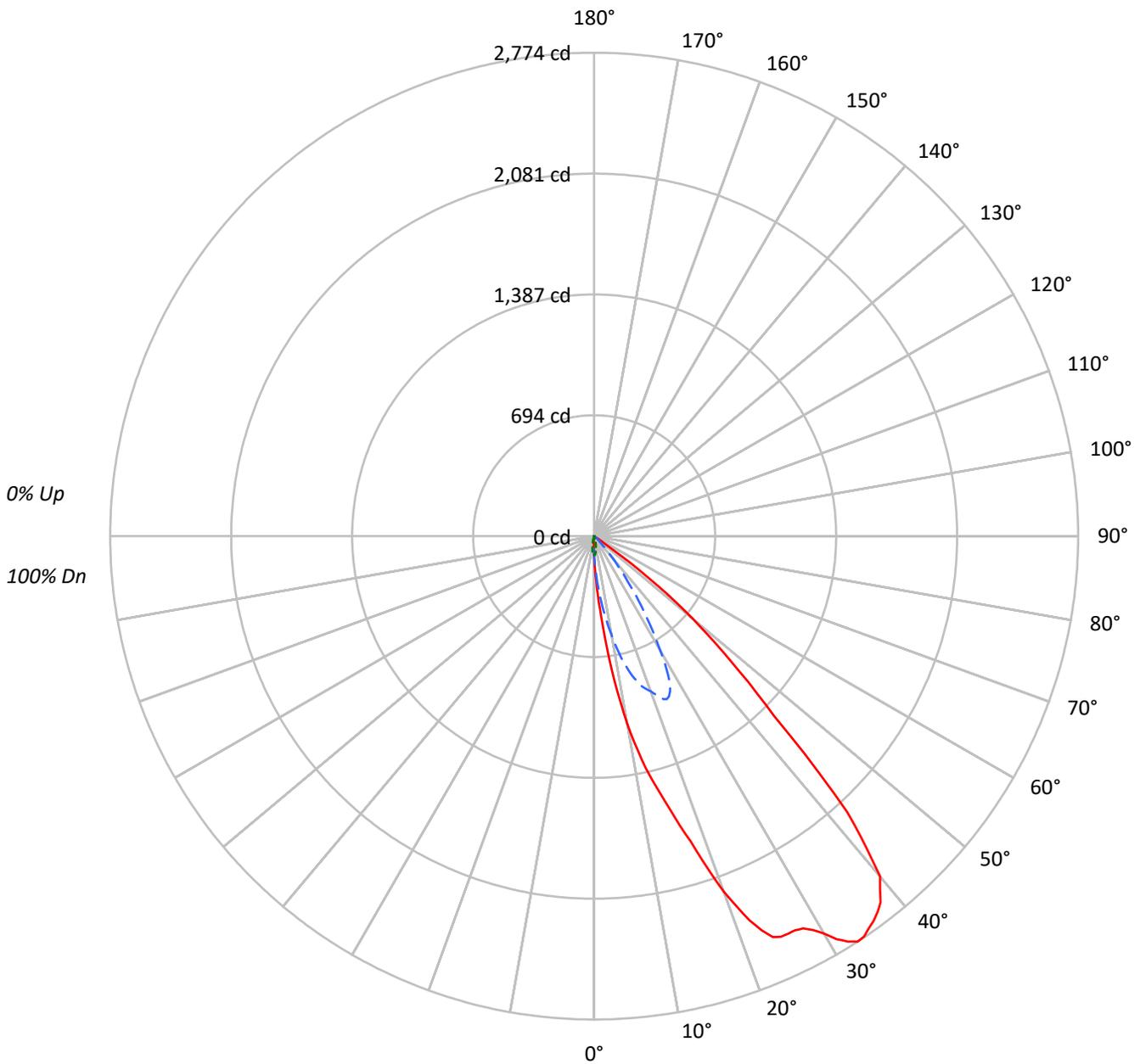
Test Method: LM-79-2019  
Report Number: P1307182  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R409024DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R40 optic, 2400K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 931.0 lumens  
Efficiency: N/A  
Efficacy: 63.8 lumens/watt  
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 14.6  
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

TEST NUMBER: P1307182  
CATALOG NUMBER: LDSQA3D13R409024DE010 3LSQCA30R 1MB

### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°



TEST NUMBER: P1307182

CATALOG NUMBER: LDSQA3D13R409024DE010 3LSQCA30R 1MB

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				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	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	89	86	84	83
3	99	91	85	80	97	90	84	80	87	82	78	84	81	77	82	79	76	82	79	76	74
4	92	83	77	72	90	82	76	71	80	74	70	78	73	69	76	72	68	76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	70	65	62	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	64	59	56	54
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	59	54	50	49
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46	55	50	46	44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	51	45	42	40
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	47	42	38	36

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	18755	18755	18755	18755	18755
5°	79594	54250	16458	2956	1487
10°	191318	100905	10195	297	0
15°	281586	146597	4279	0	0
20°	398038	173800	1576	0	0
25°	482098	192915	0	0	0
30°	523454	150899	0	0	0
35°	577207	88324	0	0	0
40°	572888	35859	0	0	0
45°	354793	10449	0	0	0
50°	197572	241	0	0	0
55°	19307	0	0	0	0
60°	0	0	310	0	0
65°	0	0	367	0	0
70°	0	453	856	0	0
75°	0	599	1131	0	0
80°	0	893	1686	0	0
85°	0	1778	3359	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°  
 Vertical Angle: 45°  
 Luminance: 356474 cd/sqm



TEST NUMBER: P1307182

CATALOG NUMBER: LDSQA3D13R409024DE010 3LSQCA30R 1MB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	20.4	2.2
10°-20°	120.0	12.9
20°-30°	273.9	29.4
30°-40°	323.4	34.7
40°-50°	172.8	18.6
50°-60°	18.8	2.0
60°-70°	0.4	0.0
70°-80°	0.7	0.1
80°-90°	0.6	0.1
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°	414.3	44.5
0°-40°	737.8	79.2
0°-60°	929.4	99.8
0°-90°	931.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	931.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	109	109	109	109	109	
5°	460	314	95	17	9	65
15°	1579	822	24	0	0	469
25°	2537	1015	0	0	0	1152
35°	2745	420	0	0	0	1696
45°	1457	43	0	0	0	1201
55°	64	0	0	0	0	180
65°	0	0	1	0	0	0
75°	0	1	2	0	0	0
85°	0	1	2	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P1307182

CATALOG NUMBER: LDSQA3D13R409024DE010 3LSQCA30R 1MB

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	108.9	108.9	108.9	108.9	108.9	108.9	108.9	108.9	108.9	108.9	108.9
2.5°	253.8	248.6	252.1	245.2	245.2	229.8	230.6	217.8	198.9	151.8	108.0
5°	460.4	481.0	464.7	443.3	431.3	415.8	395.3	373.8	313.8	189.5	95.2
7.5°	770.8	769.1	741.6	718.5	691.9	650.8	612.2	559.9	446.7	216.9	78.9
10°	1094.0	1088.0	1057.2	1037.5	986.9	927.7	848.8	764.8	577.0	226.4	58.3
12.5°	1363.3	1355.5	1329.8	1296.4	1240.7	1166.1	1081.2	970.6	714.2	216.1	37.7
15°	1579.3	1577.6	1552.7	1507.3	1449.0	1376.1	1280.1	1147.2	822.2	189.5	24.0
17.5°	1835.7	1846.0	1801.4	1752.5	1668.5	1566.5	1449.0	1297.2	902.0	156.9	15.4
20°	2171.8	2157.2	2116.1	2044.9	1964.3	1841.7	1675.4	1458.4	948.3	121.8	8.6
21°	2274.7	2268.7	2225.8	2159.8	2070.6	1946.3	1774.8	1540.7	969.7	108.9	6.9
22°	2379.3	2369.0	2335.6	2271.2	2187.2	2046.6	1858.0	1625.6	997.2	95.2	4.3
23°	2457.3	2453.0	2427.3	2363.8	2277.2	2140.9	1948.0	1704.5	1016.0	82.3	2.6
24°	2517.3	2512.2	2486.5	2438.4	2363.8	2221.5	2038.9	1789.4	1023.7	71.2	0.9
25°	2537.0	2539.6	2524.2	2486.5	2423.9	2281.5	2106.6	1856.3	1015.2	60.9	0.0
26°	2537.0	2545.6	2534.5	2513.0	2461.6	2329.6	2170.1	1895.7	992.9	51.4	0.0
27°	2537.9	2545.6	2534.5	2518.2	2467.6	2357.0	2204.4	1900.0	958.6	43.7	0.0
28°	2549.9	2554.2	2539.6	2519.9	2465.0	2365.6	2213.8	1874.3	903.7	37.7	0.0
29°	2583.3	2579.1	2555.0	2528.5	2462.4	2365.6	2185.5	1825.4	835.1	31.7	0.0
30°	2632.2	2632.2	2594.5	2552.5	2474.5	2364.7	2140.1	1737.1	758.8	25.7	0.0
31°	2698.2	2692.2	2654.5	2591.9	2500.2	2364.7	2073.2	1639.3	688.5	22.3	0.0
32°	2742.8	2739.4	2703.4	2629.6	2542.2	2364.7	2001.2	1531.3	612.2	18.0	0.0
33°	2773.7	2766.8	2725.7	2649.4	2567.9	2352.7	1920.6	1415.6	543.6	14.6	0.0
34°	2769.4	2767.7	2724.8	2645.9	2562.8	2303.0	1827.1	1287.0	480.1	12.0	0.0
35°	2745.4	2745.4	2693.1	2611.6	2525.9	2230.1	1734.5	1177.2	420.1	8.6	0.0
36°	2727.4	2720.5	2661.4	2570.5	2464.2	2115.2	1597.3	1066.6	355.8	6.9	0.0
37°	2700.8	2687.9	2621.9	2524.2	2376.7	1990.9	1453.3	968.0	300.9	4.3	0.0
38°	2666.5	2646.8	2566.2	2470.2	2280.7	1847.7	1306.7	857.4	250.4	2.6	0.0
39°	2603.9	2587.6	2504.5	2400.7	2165.8	1696.8	1164.3	753.7	202.3	0.9	0.0
40°	2548.2	2519.9	2425.6	2306.4	2031.2	1526.2	1022.9	651.6	159.5	0.0	0.0
42.5°	2148.6	2118.6	2097.2	1978.9	1617.9	1095.8	714.2	417.6	83.2	0.0	0.0
45°	1456.7	1463.6	1396.7	1317.0	1067.5	714.2	446.7	232.4	42.9	0.0	0.0
47.5°	1062.3	1044.3	953.4	802.5	625.9	417.6	233.2	112.3	17.1	0.0	0.0
50°	737.4	703.1	620.8	507.6	340.4	198.9	102.9	52.3	0.9	0.0	0.0
52.5°	400.4	376.4	319.0	231.5	141.5	76.3	41.2	21.4	0.0	0.0	0.0
55°	64.3	44.6	46.3	39.4	30.9	22.3	12.9	2.6	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.9	0.9
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.7	1.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.7	1.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	1.7	1.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.7	1.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	1.7	1.7



TEST NUMBER: P1307182

CATALOG NUMBER: LDSQA3D13R409024DE010 3LSQCA30R 1MB

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	1.7	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.7	1.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	1.7	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1307182  
 CATALOG NUMBER: LDSQA3D13R409024DE010 3LSQCA30R 1MB

**CANDELA DISTRIBUTION (continued):**

	112.5°	135°	157.5°	180°
0°	108.9	108.9	108.9	108.9
2.5°	72.9	49.7	37.7	32.6
5°	42.0	17.1	9.4	8.6
7.5°	20.6	6.0	3.4	3.4
10°	8.6	1.7	0.0	0.0
12.5°	2.6	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0
21°	0.0	0.0	0.0	0.0
22°	0.0	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	0.9	0.0	0.0	0.0
67.5°	0.9	0.0	0.0	0.0
70°	0.9	0.0	0.0	0.0
72.5°	0.9	0.0	0.0	0.0
75°	0.9	0.0	0.0	0.0
77.5°	0.9	0.0	0.0	0.0
80°	0.9	0.0	0.0	0.0



TEST NUMBER: P1307182  
CATALOG NUMBER: LDSQA3D13R409024DE010 3LSQCA30R 1MB

**CANDELA DISTRIBUTION (continued):**

	112.5°	135°	157.5°	180°
82.5°	0.9	0.0	0.0	0.0
85°	0.9	0.0	0.0	0.0
87.5°	0.9	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)