

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: P1307184

Luminaire Tested: LDSQA3D13R409024DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1307184  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R409024DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R40 optic, 2400K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

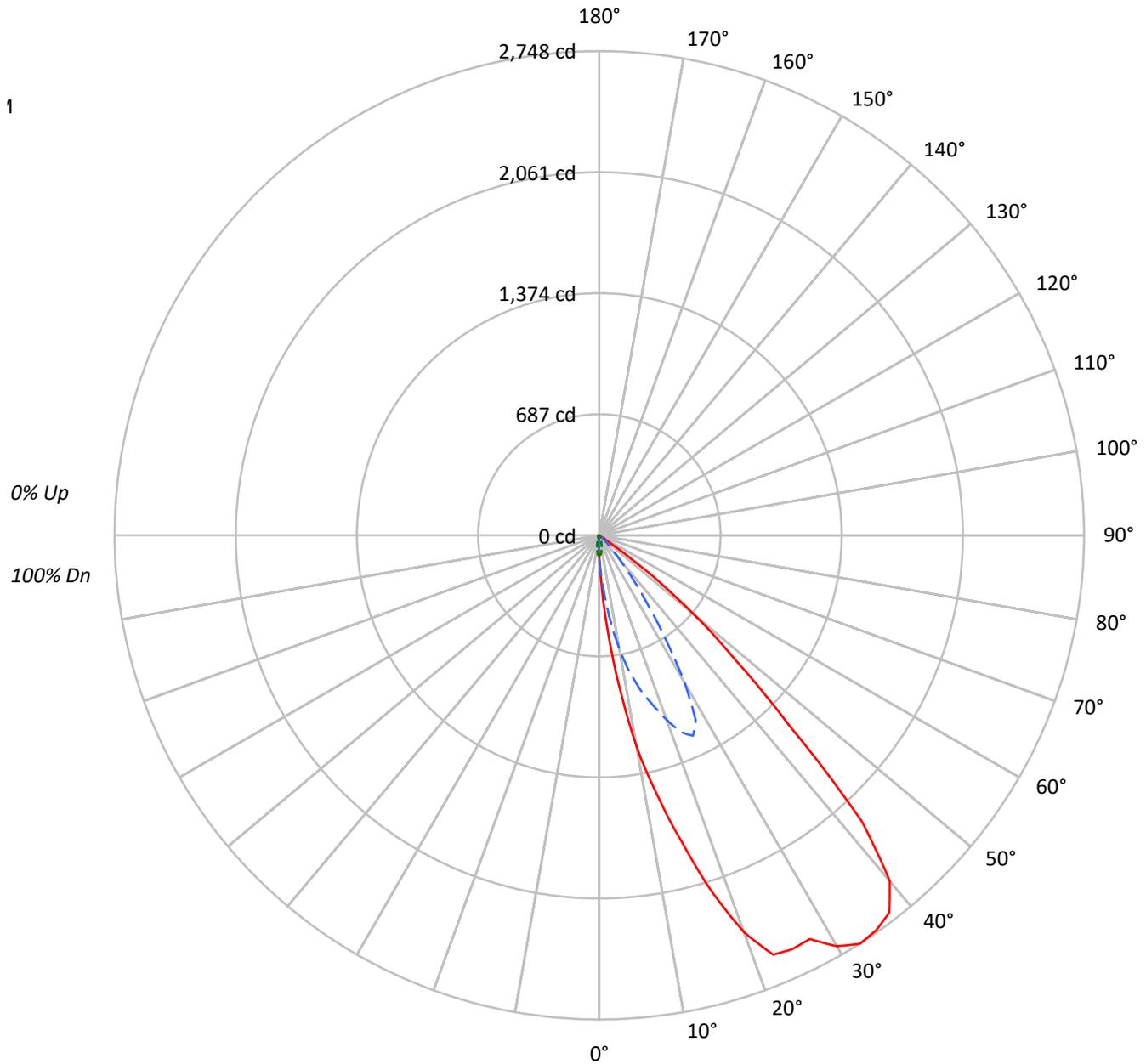
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1014.0 lumens  
Efficiency: N/A  
Efficacy: 69.5 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24  
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: P1307184  
CATALOG NUMBER: LDSQA3D13R409024DE010 3LSQCA30R 1MW

### Luminous Intensity Polar Plot



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



TEST NUMBER: P1307184

CATALOG NUMBER: LDSQA3D13R409024DE010 3LSQCA30R 1MW

**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	97	96	96	94	93	96	94	93	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	82	79	76	74
4	92	83	77	71	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	60	56	64	60	56	54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	59	54	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	55	50	46	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	47	42	38	37

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

	0°	45°	90°	135°	180°
0°	20667	20667	20667	20667	20667
5°	93200	59419	18516	7105	5186
10°	213720	114808	13046	2553	1941
15°	320740	162893	8095	1373	1230
20°	439165	204187	4710	788	935
25°	492321	238578	2451	646	817
30°	535485	192581	1014	517	855
35°	575504	98563	357	715	1072
40°	575721	39299	202	764	1349
45°	367580	13152	414	1242	1875
50°	190820	1608	697	1608	2304
55°	16454	270	781	2072	2822
60°	586	310	896	2377	3238
65°	693	367	1386	2445	3505
70°	453	453	1712	2568	3474
75°	599	599	1730	2861	3993
80°	893	893	2579	2579	3372
85°	0	1778	5138	3359	3359

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 367580 cd/sqm



TEST NUMBER: P1307184

CATALOG NUMBER: LDSQA3D13R409024DE010 3LSQCA30R 1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.4	2.3
10°-20°	137.2	13.5
20°-30°	300.6	29.6
30°-40°	342.4	33.8
40°-50°	180.7	17.8
50°-60°	21.3	2.1
60°-70°	3.8	0.4
70°-80°	3.2	0.3
80°-90°	1.4	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°	461.2	45.5
0°-40°	803.6	79.2
0°-60°	1005.6	99.2
0°-90°	1014.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1014.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	120	120	120	120	120	
5°	539	344	107	41	30	73
15°	1799	914	45	8	7	530
25°	2591	1256	13	3	4	1194
35°	2737	469	2	3	5	1697
45°	1509	54	2	5	8	1217
55°	55	1	3	7	9	170
65°	2	1	3	6	9	2
75°	1	1	3	4	6	1
85°	0	1	3	2	2	0
90°	0	0	0	0	0	



TEST NUMBER: P1307184

CATALOG NUMBER: LDSQA3D13R409024DE010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
2.5°	267.4	267.4	266.5	258.8	258.0	257.1	243.4	240.0	223.7	212.5	162.0
5°	539.1	527.1	526.2	512.5	489.4	458.5	438.8	407.1	376.2	343.7	199.7
7.5°	858.7	869.0	840.7	826.2	774.7	737.9	681.3	631.6	562.2	497.1	230.5
10°	1222.1	1204.1	1175.8	1147.5	1091.8	1025.8	941.9	853.6	753.3	656.5	247.7
12.5°	1505.8	1482.6	1465.5	1426.9	1372.1	1287.2	1187.0	1068.7	935.9	796.2	246.8
15°	1798.9	1775.7	1737.2	1702.9	1621.5	1526.3	1417.5	1261.5	1098.7	913.6	228.8
17.5°	2121.1	2091.1	2048.3	1996.0	1917.1	1811.7	1673.7	1483.5	1253.0	1009.6	196.3
20°	2396.2	2378.2	2335.4	2273.7	2196.5	2093.7	1934.3	1723.5	1442.4	1114.1	156.0
22.5°	2576.2	2559.9	2530.8	2476.8	2418.5	2308.8	2163.1	1931.7	1600.9	1209.2	118.3
25°	2590.8	2583.9	2576.2	2558.2	2523.1	2445.1	2302.8	2053.4	1699.5	1255.5	87.4
27.5°	2583.0	2580.5	2578.8	2569.3	2546.2	2469.1	2323.4	2071.4	1686.6	1183.5	64.3
30°	2692.7	2685.0	2680.7	2649.9	2589.0	2469.9	2279.7	1974.6	1498.9	968.4	46.3
32.5°	2748.4	2746.7	2742.4	2712.5	2626.8	2471.6	2206.0	1740.6	1188.7	699.3	31.7
35°	2737.3	2728.7	2713.3	2657.6	2538.5	2343.9	1967.7	1390.1	857.9	468.8	20.6
37.5°	2699.6	2679.9	2649.9	2549.6	2391.1	2125.4	1595.8	1023.3	583.6	303.4	12.0
40°	2560.8	2534.2	2487.1	2364.5	2156.2	1751.7	1180.1	691.6	383.1	174.8	3.4
42.5°	2201.7	2167.4	2133.1	1996.0	1757.7	1306.1	776.5	427.7	218.5	96.0	0.9
45°	1509.2	1466.4	1419.2	1319.8	1128.7	791.0	461.9	240.8	113.1	54.0	0.9
47.5°	1048.1	1028.4	946.1	819.3	628.2	419.1	239.1	118.3	60.0	24.9	0.9
50°	712.2	689.9	593.9	471.4	334.2	200.5	109.7	59.1	26.6	6.0	0.9
52.5°	373.7	346.2	285.4	217.7	135.4	84.0	48.0	25.7	7.7	0.9	0.9
55°	54.8	50.6	41.1	33.4	30.0	23.1	13.7	6.0	0.9	0.9	1.7
57.5°	1.7	1.7	1.7	1.7	2.6	2.6	1.7	0.9	0.9	0.9	1.7
60°	1.7	1.7	1.7	1.7	1.7	0.9	0.9	0.9	0.9	0.9	1.7
62.5°	1.7	1.7	1.7	1.7	1.7	0.9	0.9	0.9	0.9	0.9	1.7
65°	1.7	1.7	1.7	1.7	1.7	0.9	0.9	0.9	0.9	0.9	1.7
67.5°	1.7	1.7	1.7	1.7	0.9	0.9	0.9	0.9	0.9	1.7	2.6
70°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	2.6
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	2.6
75°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	2.6
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	2.6
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	2.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	1.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	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: P1307184

CATALOG NUMBER: LDSQA3D13R409024DE010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (continued):**

	90°	112.5°	135°	157.5°	180°
0°	120.0	120.0	120.0	120.0	120.0
2.5°	118.3	87.4	67.7	58.3	57.4
5°	107.1	62.6	41.1	31.7	30.0
7.5°	90.8	43.7	24.0	17.1	16.3
10°	74.6	30.0	14.6	12.0	11.1
12.5°	59.1	19.7	10.3	9.4	8.6
15°	45.4	12.9	7.7	6.9	6.9
17.5°	34.3	8.6	6.0	6.0	6.0
20°	25.7	6.0	4.3	5.1	5.1
22.5°	18.0	4.3	3.4	4.3	4.3
25°	12.9	3.4	3.4	4.3	4.3
27.5°	8.6	2.6	2.6	3.4	4.3
30°	5.1	1.7	2.6	3.4	4.3
32.5°	2.6	1.7	2.6	4.3	4.3
35°	1.7	2.6	3.4	4.3	5.1
37.5°	0.9	2.6	3.4	5.1	5.1
40°	0.9	2.6	3.4	5.1	6.0
42.5°	1.7	3.4	4.3	6.0	6.9
45°	1.7	3.4	5.1	6.9	7.7
47.5°	1.7	3.4	6.0	7.7	7.7
50°	2.6	4.3	6.0	7.7	8.6
52.5°	2.6	4.3	6.0	8.6	9.4
55°	2.6	4.3	6.9	8.6	9.4
57.5°	2.6	5.1	6.9	8.6	9.4
60°	2.6	4.3	6.9	8.6	9.4
62.5°	3.4	4.3	6.0	8.6	8.6
65°	3.4	4.3	6.0	8.6	8.6
67.5°	3.4	4.3	6.0	7.7	7.7
70°	3.4	4.3	5.1	6.9	6.9
72.5°	3.4	4.3	5.1	6.0	6.9
75°	2.6	3.4	4.3	5.1	6.0
77.5°	2.6	3.4	3.4	5.1	5.1
80°	2.6	2.6	2.6	3.4	3.4
82.5°	2.6	2.6	1.7	2.6	2.6
85°	2.6	1.7	1.7	1.7	1.7
87.5°	1.7	1.7	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)