

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: P1308698

Luminaire Tested: LDSQA3D02R159030DE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

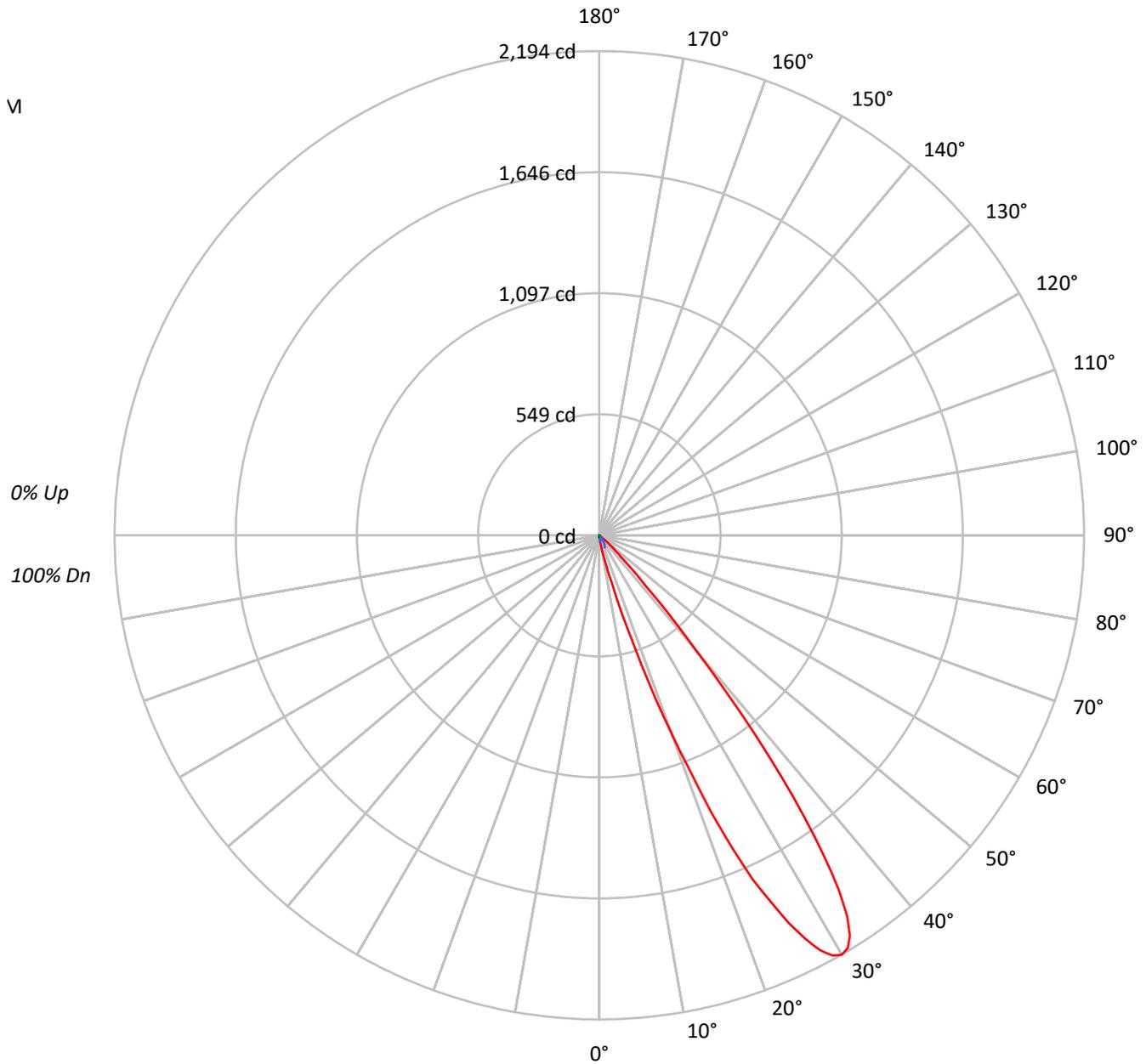
Test Method: LM-79-2019  
Report Number: P1308698  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R159030DE010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 232.0 lumens  
Efficiency: N/A  
Efficacy: 64.4 lumens/watt  
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 3.6  
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: P1308698  
CATALOG NUMBER: LDSQA3D02R159030DE010 3LSQCA30R 1MMS

### Luminous Intensity Polar Plot



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



TEST NUMBER: P1308698  
 CATALOG NUMBER: LDSQA3D02R159030DE010 3LSQCA30R 1MMS

**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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	96	95	94	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	83	80	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	77	73	70	68
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	71	66	63	61
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	65	60	57	55
7	76	65	58	52	74	64	57	52	63	56	52	61	56	52	60	55	51	60	55	51	50
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	55	50	46	45
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	51	46	42	41
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°	1429	1429	1429	1429	1429
5°	4132	3129	1227	501	346
10°	10755	4652	804	0	0
15°	42970	7613	428	0	0
20°	175578	11216	128	0	0
25°	347084	11136	0	0	0
30°	436251	8790	0	0	0
35°	372218	5382	0	0	0
40°	153238	1709	0	0	0
45°	33148	706	0	0	0
50°	4260	0	0	0	0
55°	360	0	60	0	0
60°	0	0	172	0	0
65°	0	0	204	0	0
70°	0	101	352	0	0
75°	0	133	466	0	0
80°	0	198	694	0	0
85°	0	395	1383	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2°  
 Vertical Angle: 45°  
 Luminance: 34707 cd/sqm



TEST NUMBER: P1308698

CATALOG NUMBER: LDSQA3D02R159030DE010 3LSQCA30R 1MMS

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1.1	0.5
10°-20°	16.3	7.0
20°-30°	94.8	40.9
30°-40°	101.6	43.8
40°-50°	17.1	7.4
50°-60°	0.5	0.2
60°-70°	0.1	0.1
70°-80°	0.2	0.1
80°-90°	0.2	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°	112.1	48.3
0°-40°	213.7	92.1
0°-60°	231.4	99.8
0°-90°	232.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	232.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	8	8	8	8	8	
5°	24	18	7	3	2	3
15°	241	43	2	0	0	111
25°	1826	59	0	0	0	826
35°	1770	26	0	0	0	1017
45°	136	3	0	0	0	161
55°	1	0	0	0	0	3
65°	0	0	0	0	0	0
75°	0	0	1	0	0	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P1308698  
 CATALOG NUMBER: LDSQA3D02R159030DE010 3LSQCA30R 1MMS

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
2.5°	15.1	15.4	15.6	15.6	15.6	15.6	15.4	15.4	15.4	15.4	15.1
5°	23.9	23.9	23.9	23.9	23.9	23.9	23.7	23.7	23.7	23.7	23.7
7.5°	34.2	33.7	33.9	33.2	33.7	33.4	33.2	33.7	33.7	32.4	32.4
10°	61.5	61.2	58.8	59.3	59.8	59.5	59.5	58.1	57.8	56.8	55.9
12.5°	118.6	121.2	123.2	123.2	118.6	120.3	117.1	117.8	118.3	116.9	111.7
15°	241.0	245.4	240.8	245.2	243.5	237.1	230.1	220.5	224.2	217.6	215.4
17.5°	527.9	537.9	533.8	513.5	520.1	504.5	494.8	491.1	480.8	450.4	437.7
20°	958.0	970.2	958.8	935.1	942.7	913.1	905.6	898.5	853.1	836.5	783.4
21°	1139.1	1149.1	1153.4	1128.8	1113.7	1090.3	1070.7	1064.4	1036.8	1004.9	950.2
22°	1357.6	1345.9	1319.6	1323.0	1300.6	1281.3	1254.2	1228.6	1197.8	1153.2	1108.1
23°	1538.7	1525.0	1512.6	1497.4	1473.3	1459.6	1420.8	1392.8	1352.8	1304.9	1261.5
24°	1707.2	1686.3	1678.4	1651.6	1644.8	1614.0	1582.6	1546.0	1497.7	1446.7	1398.6
25°	1826.5	1829.7	1822.9	1819.7	1784.8	1753.3	1722.1	1665.8	1624.5	1579.4	1505.5
26°	1954.4	1955.8	1952.4	1929.0	1897.5	1866.8	1826.5	1777.5	1717.7	1667.7	1600.9
27°	2052.2	2046.3	2041.5	2013.7	1987.8	1949.0	1912.4	1854.3	1796.0	1736.5	1658.9
28°	2130.3	2119.3	2113.2	2089.3	2059.0	2011.5	1966.6	1912.4	1854.1	1790.2	1706.3
29°	2177.3	2165.6	2158.8	2132.5	2097.6	2055.9	2010.5	1951.0	1888.3	1817.0	1732.6
30°	2193.7	2186.9	2176.1	2148.8	2112.7	2069.3	2022.7	1958.0	1892.4	1819.5	1730.2
31°	2183.0	2174.2	2163.9	2134.4	2095.4	2053.9	1999.7	1931.9	1862.9	1793.4	1698.7
32°	2140.3	2134.9	2122.5	2082.9	2051.2	1997.5	1944.1	1880.7	1805.3	1730.7	1645.0
33°	2060.2	2051.5	2040.7	2004.6	1964.1	1912.7	1859.5	1794.6	1719.7	1640.9	1546.7
34°	1938.3	1927.0	1913.6	1889.5	1837.8	1793.1	1731.6	1655.8	1593.8	1518.2	1433.0
35°	1770.4	1754.1	1738.0	1719.7	1661.6	1620.4	1578.9	1512.8	1453.0	1381.8	1285.4
36°	1582.1	1575.7	1562.6	1514.3	1495.5	1439.4	1405.9	1330.1	1281.8	1212.0	1132.5
37°	1369.1	1331.8	1350.8	1323.7	1267.1	1249.6	1209.8	1144.7	1092.5	1018.8	961.2
38°	1140.8	1116.4	1129.8	1102.5	1072.9	1032.4	1002.2	954.6	896.1	838.2	783.6
39°	904.1	884.4	899.0	880.5	835.6	818.7	791.9	755.5	708.5	663.3	611.6
40°	681.6	656.3	675.8	649.4	628.9	601.4	587.7	554.3	525.0	497.9	465.0
42.5°	311.3	308.6	304.2	294.7	292.5	292.8	275.9	264.9	250.1	232.7	222.2
45°	136.1	139.5	142.5	137.1	136.9	133.9	133.0	125.6	122.7	117.1	110.3
47.5°	67.1	68.3	67.6	69.0	67.8	65.9	65.4	64.4	61.5	61.2	58.1
50°	15.9	15.6	15.6	15.9	15.6	15.6	15.4	14.9	14.6	14.9	14.1
52.5°	5.1	5.4	5.1	4.9	5.1	5.4	5.1	5.1	5.1	5.1	5.1
55°	1.2	1.2	1.2	1.2	1.2	1.2	1.0	1.0	1.2	1.2	1.2
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1308698  
CATALOG NUMBER: LDSQA3D02R159030DE010 3LSQCA30R 1MMS

**CANDELA DISTRIBUTION (continued):**

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P1308698

CATALOG NUMBER: LDSQA3D02R159030DE010 3LSQCA30R 1MMS

**CANDELA DISTRIBUTION (continued):**

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
2.5°	14.9	12.7	10.5	8.3	6.1	4.9	4.6	4.4
5°	22.4	18.1	12.0	7.1	4.1	2.9	2.2	2.0
7.5°	30.3	22.4	13.2	5.9	2.9	1.2	0.5	0.2
10°	43.4	26.6	13.7	4.6	1.5	0.0	0.0	0.0
12.5°	85.1	30.5	13.4	3.7	0.2	0.0	0.0	0.0
15°	141.5	42.7	12.4	2.4	0.0	0.0	0.0	0.0
17.5°	231.8	55.1	10.7	1.7	0.0	0.0	0.0	0.0
20°	359.4	61.2	8.3	0.7	0.0	0.0	0.0	0.0
21°	421.3	61.7	7.3	0.5	0.0	0.0	0.0	0.0
22°	475.0	61.7	6.3	0.2	0.0	0.0	0.0	0.0
23°	524.8	61.0	5.6	0.0	0.0	0.0	0.0	0.0
24°	565.7	60.0	5.1	0.0	0.0	0.0	0.0	0.0
25°	596.5	58.6	4.6	0.0	0.0	0.0	0.0	0.0
26°	610.6	56.6	3.9	0.0	0.0	0.0	0.0	0.0
27°	617.7	53.9	3.4	0.0	0.0	0.0	0.0	0.0
28°	612.8	51.0	2.9	0.0	0.0	0.0	0.0	0.0
29°	600.6	47.8	2.2	0.0	0.0	0.0	0.0	0.0
30°	584.8	44.2	1.7	0.0	0.0	0.0	0.0	0.0
31°	561.6	40.5	1.2	0.0	0.0	0.0	0.0	0.0
32°	529.9	36.8	1.0	0.0	0.0	0.0	0.0	0.0
33°	487.4	32.9	0.5	0.0	0.0	0.0	0.0	0.0
34°	435.0	29.0	0.2	0.0	0.0	0.0	0.0	0.0
35°	376.2	25.6	0.0	0.0	0.0	0.0	0.0	0.0
36°	325.7	22.0	0.0	0.0	0.0	0.0	0.0	0.0
37°	274.9	17.6	0.0	0.0	0.0	0.0	0.0	0.0
38°	230.3	13.9	0.0	0.0	0.0	0.0	0.0	0.0
39°	190.5	11.2	0.0	0.0	0.0	0.0	0.0	0.0
40°	157.8	7.6	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	87.3	5.1	0.0	0.0	0.0	0.0	0.0	0.0
45°	52.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	30.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	11.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	1.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.2	0.5	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.2	0.5	0.2	0.0	0.0	0.0
65°	0.0	0.0	0.5	0.5	0.2	0.0	0.0	0.0
67.5°	0.0	0.0	0.5	0.7	0.2	0.0	0.0	0.0
70°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
72.5°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
75°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
77.5°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
80°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0



TEST NUMBER: P1308698

CATALOG NUMBER: LDSQA3D02R159030DE010 3LSQCA30R 1MMS

**CANDELA DISTRIBUTION (continued):**

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
85°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
87.5°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)