

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: P1310409

Luminaire Tested: LDSQA3D13R509035DE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

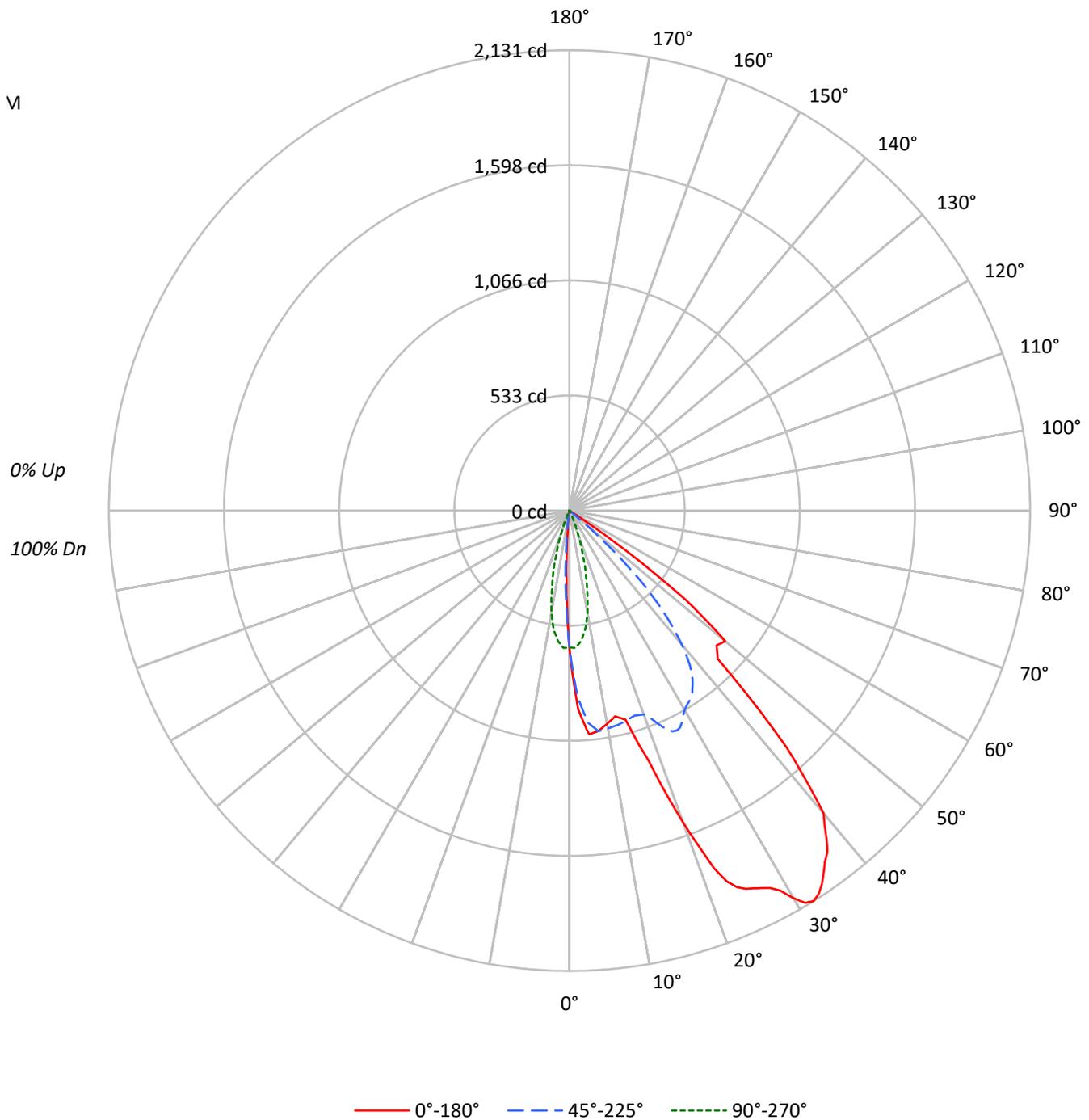
Test Method: LM-79-2019  
Report Number: P1310409  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R509035DE010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1020.0 lumens  
Efficiency: N/A  
Efficacy: 69.9 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.48 / 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

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### Luminous Intensity Polar Plot





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

RF	20				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	100			100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91			91
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82			82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74			74
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66			66
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59			59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54			54
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48			48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44			44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40			40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37			37

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

	0°	45°	90°	135°	180°
0°	109069	109069	109069	109069	109069
5°	179709	170547	104817	31136	15559
10°	175142	178989	83977	1574	2099
15°	178565	179635	50298	1605	535
20°	281456	183917	20728	0	0
25°	366922	214255	4941	0	0
30°	411851	211891	199	0	0
35°	431002	208668	0	0	0
40°	411175	181295	0	0	0
45°	236131	119636	0	0	0
50°	251962	13664	0	0	0
55°	71792	0	0	0	0
60°	0	0	344	0	0
65°	0	408	408	0	0
70°	0	504	504	0	0
75°	0	665	665	0	0
80°	0	992	1984	992	0
85°	0	1976	3952	1976	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 45°  
 Luminance: 260731 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.2	5.2
10°-20°	134.0	13.1
20°-30°	257.4	25.2
30°-40°	299.6	29.4
40°-50°	214.4	21.0
50°-60°	59.7	5.9
60°-70°	0.4	0.0
70°-80°	0.6	0.1
80°-90°	0.7	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°	444.6	43.6
0°-40°	744.2	73.0
0°-60°	1018.2	99.8
0°-90°	1020.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1020.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	633	633	633	633	633	
5°	1040	986	606	180	90	95
15°	1002	1008	282	9	3	323
25°	1931	1128	26	0	0	878
35°	2050	992	0	0	0	1268
45°	970	491	0	0	0	912
55°	239	0	0	0	0	301
65°	0	1	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	2	1	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	633.3	633.3	633.3	633.3	633.3	633.3	633.3	633.3	633.3	633.3	633.3
2.5°	920.4	925.4	926.4	914.4	916.4	899.4	900.4	888.4	859.4	758.4	636.3
5°	1039.5	1036.5	1039.5	1035.5	1039.5	1029.5	1023.5	1018.5	986.5	843.4	606.3
7.5°	1028.5	1024.5	1030.5	1032.5	1039.5	1036.5	1037.5	1040.5	1029.5	889.4	555.3
10°	1001.5	1000.5	1003.5	1003.5	1011.5	1012.5	1016.5	1022.5	1023.5	905.4	480.2
12.5°	975.5	972.5	972.5	971.5	975.5	974.5	984.5	998.5	1017.5	895.4	377.2
15°	1001.5	998.5	994.5	983.5	975.5	966.5	967.5	976.5	1007.5	869.4	282.1
17.5°	1211.6	1195.6	1175.6	1140.5	1103.5	1039.5	1001.5	977.5	995.5	829.4	188.1
20°	1535.7	1528.7	1496.7	1439.7	1379.7	1285.6	1168.6	1074.5	1003.5	779.4	113.1
21°	1658.8	1654.8	1620.8	1567.7	1499.7	1385.7	1265.6	1152.5	1019.5	758.4	89.0
22°	1784.8	1769.8	1742.8	1683.8	1612.8	1498.7	1364.6	1239.6	1051.5	731.3	68.0
23°	1865.9	1856.9	1827.9	1780.8	1712.8	1601.8	1464.7	1328.6	1082.5	701.3	51.0
24°	1907.9	1904.9	1881.9	1848.9	1790.8	1677.8	1547.7	1407.7	1108.5	666.3	37.0
25°	1930.9	1920.9	1906.9	1882.9	1838.9	1740.8	1624.8	1476.7	1127.5	631.3	26.0
26°	1944.9	1938.9	1916.9	1895.9	1853.9	1773.8	1674.8	1518.7	1132.5	588.3	18.0
27°	1960.9	1946.9	1925.9	1900.9	1853.9	1783.8	1693.8	1536.7	1126.5	544.3	12.0
28°	1977.9	1967.9	1938.9	1906.9	1850.9	1783.8	1686.8	1512.7	1108.5	502.2	7.0
29°	2011.0	1997.9	1961.9	1914.9	1851.9	1781.8	1659.8	1462.7	1084.5	455.2	4.0
30°	2071.0	2044.0	1999.9	1933.9	1858.9	1777.8	1614.8	1387.7	1065.5	402.2	1.0
31°	2118.0	2103.0	2052.0	1968.9	1878.9	1766.8	1561.7	1313.6	1052.5	356.2	0.0
32°	2131.0	2120.0	2083.0	2004.9	1912.9	1757.8	1501.7	1241.6	1042.5	305.1	0.0
33°	2116.0	2109.0	2070.0	1998.9	1921.9	1745.8	1432.7	1170.6	1031.5	259.1	0.0
34°	2088.0	2079.0	2045.0	1972.9	1898.9	1693.8	1366.6	1116.5	1015.5	216.1	0.0
35°	2050.0	2043.0	2008.0	1936.9	1856.9	1612.8	1300.6	1080.5	992.5	173.1	0.0
36°	2009.0	2006.9	1961.9	1891.9	1802.9	1534.7	1220.6	1053.5	969.5	137.1	0.0
37°	1981.9	1971.9	1922.9	1853.9	1738.8	1443.7	1156.5	1044.5	937.4	106.1	0.0
38°	1932.9	1934.9	1878.9	1815.9	1673.8	1364.6	1104.5	1037.5	901.4	77.0	0.0
39°	1874.9	1875.9	1817.9	1763.8	1596.8	1281.6	1061.5	1030.5	856.4	49.0	0.0
40°	1828.9	1827.9	1761.8	1703.8	1513.7	1203.6	1038.5	1020.5	806.4	28.0	0.0
42.5°	1486.7	1492.7	1500.7	1524.7	1318.6	1066.5	1016.5	964.5	664.3	0.0	0.0
45°	969.5	992.5	998.5	1070.5	1069.5	1010.5	964.5	864.4	491.2	0.0	0.0
47.5°	922.4	929.4	942.4	970.5	985.5	956.5	862.4	722.3	268.1	0.0	0.0
50°	940.4	939.4	942.4	942.4	915.4	840.4	707.3	533.3	51.0	0.0	0.0
52.5°	675.3	700.3	727.3	739.3	704.3	625.3	516.2	313.1	0.0	0.0	0.0
55°	239.1	231.1	225.1	246.1	241.1	271.1	224.1	73.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.0	4.0	9.0	12.0	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	1.0	1.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	2.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	2.0



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**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	1.0	1.0	1.0	2.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	2.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	112.5°	135°	157.5°	180°
0°	633.3	633.3	633.3	633.3
2.5°	507.2	389.2	315.1	320.2
5°	356.2	180.1	111.1	90.0
7.5°	213.1	55.0	11.0	9.0
10°	100.0	9.0	10.0	12.0
12.5°	30.0	8.0	11.0	10.0
15°	8.0	9.0	5.0	3.0
17.5°	3.0	4.0	0.0	0.0
20°	2.0	0.0	0.0	0.0
21°	2.0	0.0	0.0	0.0
22°	1.0	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°	1.0	0.0	0.0	0.0
67.5°	1.0	0.0	0.0	0.0
70°	1.0	0.0	0.0	0.0
72.5°	1.0	0.0	0.0	0.0
75°	1.0	0.0	0.0	0.0
77.5°	1.0	0.0	0.0	0.0
80°	1.0	1.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	112.5°	135°	157.5°	180°
82.5°	1.0	1.0	0.0	0.0
85°	1.0	1.0	0.0	0.0
87.5°	1.0	1.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)