

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: P1307357

Luminaire Tested: LDSQA3D17R509024DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

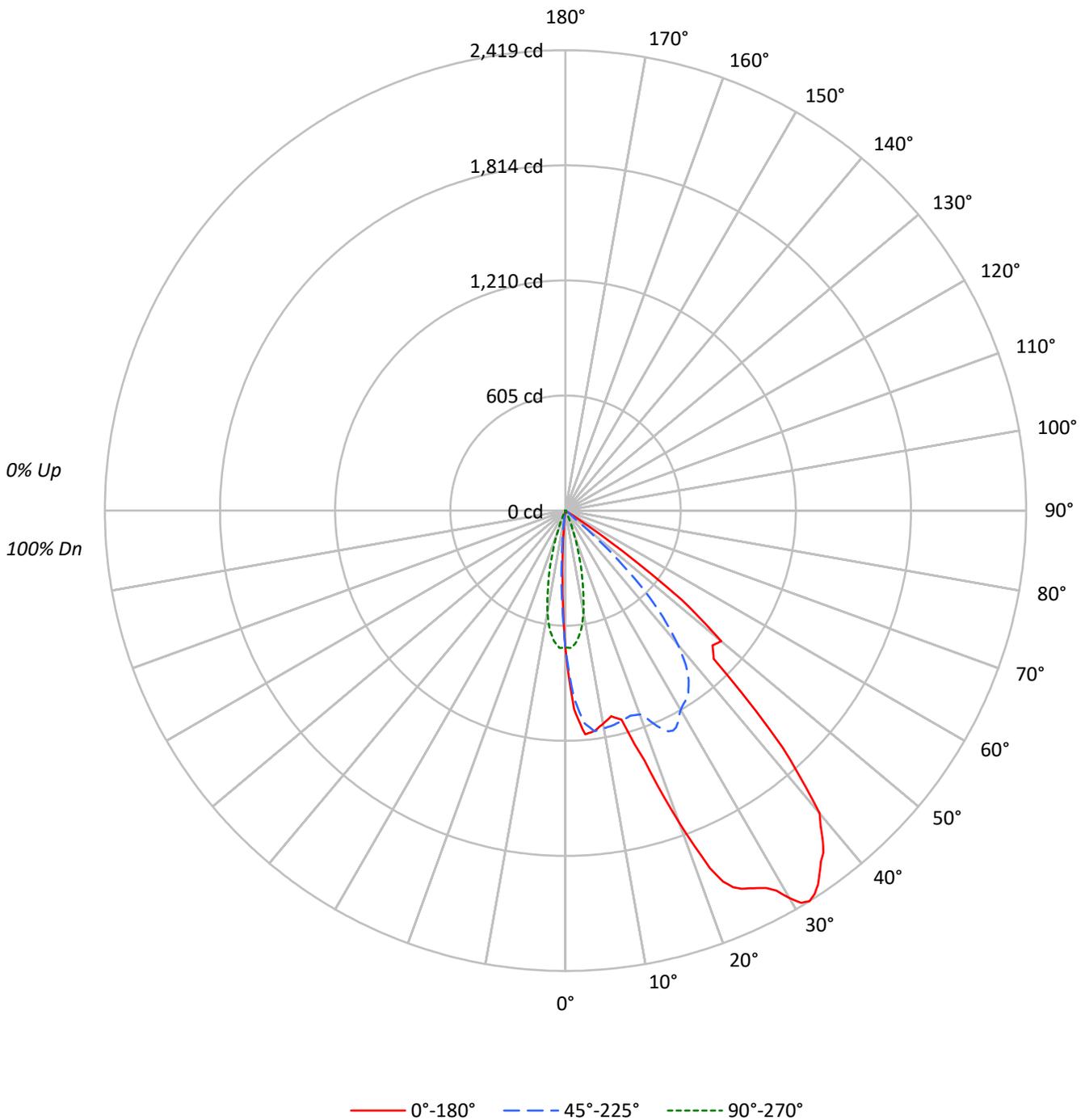
Test Method: LM-79-2019  
Report Number: P1307357  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R509024DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R50 optic, 2400K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1158.0 lumens  
Efficiency: N/A  
Efficacy: 54.6 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): 21.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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				
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	93	90	94	91	88	91	88	86	89	86	84	89	86	84	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	82	78	75	74
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	75	71	68	66
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	69	65	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	64	59	55	54
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	55	49	46	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	51	45	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°	123828	123828	123828	123828	123828
5°	204016	193609	118994	35337	17668
10°	198838	203210	95344	1784	2378
15°	202725	203937	57109	1819	606
20°	319541	208787	23514	0	0
25°	416576	243253	5606	0	0
30°	467573	240568	219	0	0
35°	489303	236883	0	0	0
40°	466795	205823	0	0	0
45°	268062	135833	0	0	0
50°	286070	15513	0	0	0
55°	81521	0	0	0	0
60°	0	0	379	0	0
65°	0	448	448	0	0
70°	0	554	554	0	0
75°	0	732	732	0	0
80°	0	1091	2281	1091	0
85°	0	2174	4545	2174	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 45°  
 Luminance: 295998 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.4	5.2
10°-20°	152.1	13.1
20°-30°	292.2	25.2
30°-40°	340.1	29.4
40°-50°	243.4	21.0
50°-60°	67.7	5.9
60°-70°	0.4	0.0
70°-80°	0.7	0.1
80°-90°	0.8	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°	504.7	43.6
0°-40°	844.8	73.0
0°-60°	1156.0	99.8
0°-90°	1158.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1158.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	719	719	719	719	719	
5°	1180	1120	688	204	102	108
15°	1137	1144	320	10	3	367
25°	2192	1280	30	0	0	997
35°	2327	1127	0	0	0	1440
45°	1101	558	0	0	0	1035
55°	272	0	0	0	0	342
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°	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0
2.5°	1045.0	1050.6	1051.8	1038.2	1040.4	1021.1	1022.2	1008.6	975.7	861.0	722.4
5°	1180.1	1176.7	1180.1	1175.6	1180.1	1168.8	1162.0	1156.3	1119.9	957.5	688.3
7.5°	1167.6	1163.1	1169.9	1172.2	1180.1	1176.7	1177.9	1181.3	1168.8	1009.8	630.4
10°	1137.0	1135.8	1139.2	1139.2	1148.3	1149.5	1154.0	1160.8	1162.0	1027.9	545.2
12.5°	1107.4	1104.0	1104.0	1102.9	1107.4	1106.3	1117.7	1133.6	1155.1	1016.6	428.2
15°	1137.0	1133.6	1129.0	1116.5	1107.4	1097.2	1098.3	1108.6	1143.8	987.0	320.3
17.5°	1375.5	1357.3	1334.6	1294.8	1252.8	1180.1	1137.0	1109.7	1130.2	941.6	213.5
20°	1743.5	1735.6	1699.2	1634.5	1566.3	1459.5	1326.7	1219.9	1139.2	884.8	128.3
21°	1883.2	1878.7	1840.0	1779.8	1702.6	1573.1	1436.8	1308.5	1157.4	861.0	101.1
22°	2026.3	2009.3	1978.6	1911.6	1831.0	1701.5	1549.3	1407.3	1193.8	830.3	77.2
23°	2118.3	2108.1	2075.2	2021.8	1944.5	1818.5	1662.9	1508.4	1229.0	796.2	57.9
24°	2166.0	2162.6	2136.5	2099.0	2033.1	1904.8	1757.1	1598.1	1258.5	756.5	42.0
25°	2192.2	2180.8	2164.9	2137.6	2087.7	1976.3	1844.6	1676.5	1280.1	716.7	29.5
26°	2208.1	2201.2	2176.3	2152.4	2104.7	2013.8	1901.4	1724.2	1285.8	667.9	20.4
27°	2226.2	2210.3	2186.5	2158.1	2104.7	2025.2	1923.0	1744.6	1278.9	617.9	13.6
28°	2245.5	2234.2	2201.2	2164.9	2101.3	2025.2	1915.0	1717.4	1258.5	570.2	8.0
29°	2283.0	2268.3	2227.4	2174.0	2102.4	2022.9	1884.3	1660.6	1231.2	516.8	4.5
30°	2351.2	2320.5	2270.5	2195.6	2110.4	2018.4	1833.2	1575.4	1209.7	456.6	1.1
31°	2404.6	2387.5	2329.6	2235.3	2133.1	2005.9	1773.0	1491.3	1194.9	404.4	0.0
32°	2419.3	2406.8	2364.8	2276.2	2171.7	1995.7	1704.9	1409.6	1183.5	346.4	0.0
33°	2402.3	2394.3	2350.0	2269.4	2181.9	1982.0	1626.5	1328.9	1171.0	294.2	0.0
34°	2370.5	2360.3	2321.6	2239.9	2155.8	1923.0	1551.5	1267.6	1152.9	245.3	0.0
35°	2327.3	2319.4	2279.6	2199.0	2108.1	1831.0	1476.6	1226.7	1126.7	196.5	0.0
36°	2280.7	2278.5	2227.4	2147.9	2046.8	1742.4	1385.7	1196.0	1100.6	155.6	0.0
37°	2250.1	2238.7	2183.1	2104.7	1974.1	1639.0	1313.0	1185.8	1064.3	120.4	0.0
38°	2194.4	2196.7	2133.1	2061.5	1900.2	1549.3	1254.0	1177.9	1023.4	87.5	0.0
39°	2128.5	2129.7	2063.8	2002.5	1812.8	1455.0	1205.1	1169.9	972.3	55.7	0.0
40°	2076.3	2075.2	2000.2	1934.3	1718.5	1366.4	1179.0	1158.5	915.5	31.8	0.0
42.5°	1687.8	1694.7	1703.7	1731.0	1497.0	1210.8	1154.0	1094.9	754.2	0.0	0.0
45°	1100.6	1126.7	1133.6	1215.3	1214.2	1147.2	1094.9	981.4	557.7	0.0	0.0
47.5°	1047.2	1055.2	1070.0	1101.8	1118.8	1085.9	979.1	820.1	304.4	0.0	0.0
50°	1067.7	1066.5	1070.0	1070.0	1039.3	954.1	803.0	605.4	57.9	0.0	0.0
52.5°	766.7	795.1	825.7	839.4	799.6	709.9	586.1	355.5	0.0	0.0	0.0
55°	271.5	262.4	255.6	279.4	273.7	307.8	254.4	82.9	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.1	4.5	10.2	13.6	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	1.1	1.1
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	2.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	2.3



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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	1.1	1.1	1.1	2.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	2.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	2.3
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°	719.0	719.0	719.0	719.0
2.5°	575.9	441.8	357.8	363.5
5°	404.4	204.4	126.1	102.2
7.5°	241.9	62.5	12.5	10.2
10°	113.6	10.2	11.4	13.6
12.5°	34.1	9.1	12.5	11.4
15°	9.1	10.2	5.7	3.4
17.5°	3.4	4.5	0.0	0.0
20°	2.3	0.0	0.0	0.0
21°	2.3	0.0	0.0	0.0
22°	1.1	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°	1.1	0.0	0.0	0.0
67.5°	1.1	0.0	0.0	0.0
70°	1.1	0.0	0.0	0.0
72.5°	1.1	0.0	0.0	0.0
75°	1.1	0.0	0.0	0.0
77.5°	1.1	0.0	0.0	0.0
80°	1.1	1.1	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	112.5°	135°	157.5°	180°
82.5°	1.1	1.1	0.0	0.0
85°	1.1	1.1	0.0	0.0
87.5°	1.1	1.1	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)