

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: P1313867

Luminaire Tested: LDSQA3D17R509727DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

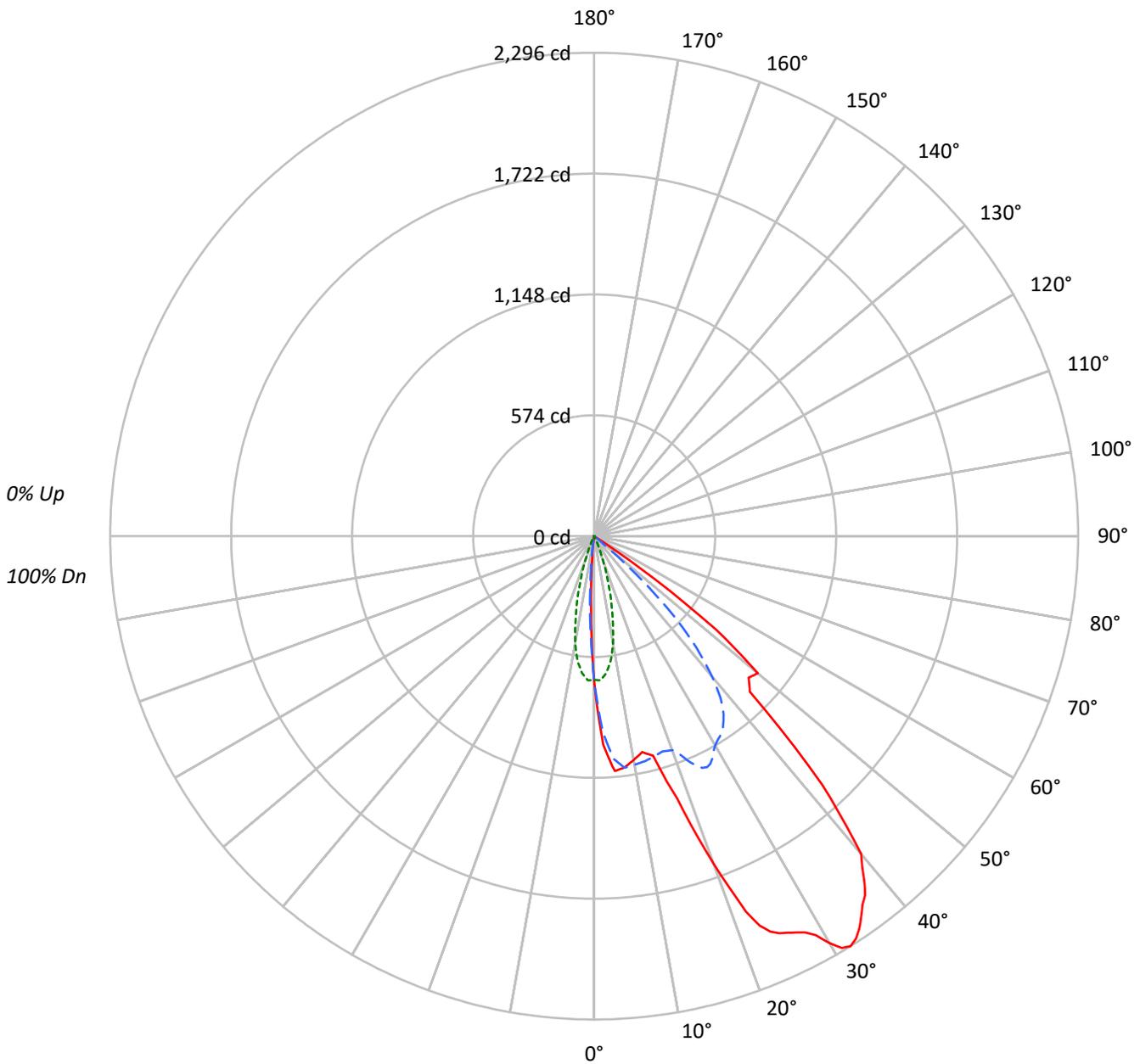
Test Method: LM-79-2019  
Report Number: P1313867  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R509727DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 97CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1099.0 lumens  
Efficiency: N/A  
Efficacy: 51.8 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



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



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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	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	99	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°	117508	117508	117508	117508	117508
5°	193626	183755	112926	33539	16769
10°	188695	192857	90483	1696	2256
15°	192384	193542	54203	1729	571
20°	303266	198157	22323	0	0
25°	395350	230863	5321	0	0
30°	443749	228298	219	0	0
35°	464368	224815	0	0	0
40°	443009	195324	0	0	0
45°	254398	128916	0	0	0
50°	271494	14736	0	0	0
55°	77347	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	2182	1091	0
85°	0	2174	4347	2174	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 45°  
 Luminance: 280922 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.3	5.2
10°-20°	144.4	13.1
20°-30°	277.3	25.2
30°-40°	322.8	29.4
40°-50°	231.0	21.0
50°-60°	64.3	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°	479.0	43.6
0°-40°	801.8	73.0
0°-60°	1097.1	99.8
0°-90°	1099.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1099.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	682	682	682	682	682	
5°	1120	1063	653	194	97	103
15°	1079	1086	304	10	3	348
25°	2080	1215	28	0	0	946
35°	2209	1069	0	0	0	1367
45°	1044	529	0	0	0	982
55°	258	0	0	0	0	324
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°	682.3	682.3	682.3	682.3	682.3	682.3	682.3	682.3	682.3	682.3	682.3
2.5°	991.7	997.1	998.2	985.3	987.4	969.1	970.2	957.2	926.0	817.1	685.6
5°	1120.0	1116.8	1120.0	1115.7	1120.0	1109.2	1102.8	1097.4	1062.9	908.7	653.2
7.5°	1108.1	1103.8	1110.3	1112.5	1120.0	1116.8	1117.8	1121.1	1109.2	958.3	598.3
10°	1079.0	1078.0	1081.2	1081.2	1089.8	1090.9	1095.2	1101.7	1102.8	975.6	517.4
12.5°	1051.0	1047.8	1047.8	1046.7	1051.0	1049.9	1060.7	1075.8	1096.3	964.8	406.4
15°	1079.0	1075.8	1071.5	1059.6	1051.0	1041.3	1042.4	1052.1	1085.5	936.7	304.0
17.5°	1305.4	1288.2	1266.6	1228.9	1189.0	1120.0	1079.0	1053.2	1072.6	893.6	202.7
20°	1654.7	1647.1	1612.6	1551.2	1486.5	1385.2	1259.1	1157.7	1081.2	839.7	121.8
21°	1787.3	1782.9	1746.3	1689.2	1615.9	1493.0	1363.6	1241.8	1098.4	817.1	95.9
22°	1923.1	1906.9	1877.8	1814.2	1737.7	1614.8	1470.3	1335.6	1132.9	788.0	73.3
23°	2010.4	2000.7	1969.4	1918.8	1845.5	1725.8	1578.1	1431.5	1166.4	755.7	55.0
24°	2055.7	2052.4	2027.6	1992.1	1929.6	1807.7	1667.6	1516.7	1194.4	717.9	39.9
25°	2080.5	2069.7	2054.6	2028.7	1981.3	1875.7	1750.6	1591.1	1214.9	680.2	28.0
26°	2095.6	2089.1	2065.4	2042.7	1997.5	1911.2	1804.5	1636.3	1220.3	633.8	19.4
27°	2112.8	2097.7	2075.1	2048.1	1997.5	1922.0	1825.0	1655.7	1213.8	586.4	12.9
28°	2131.1	2120.3	2089.1	2054.6	1994.2	1922.0	1817.4	1629.9	1194.4	541.1	7.5
29°	2166.7	2152.7	2113.9	2063.2	1995.3	1919.8	1788.3	1576.0	1168.5	490.5	4.3
30°	2231.4	2202.3	2154.8	2083.7	2002.9	1915.5	1739.8	1495.1	1148.0	433.3	1.1
31°	2282.0	2265.9	2210.9	2121.4	2024.4	1903.7	1682.7	1415.4	1134.0	383.8	0.0
32°	2296.1	2284.2	2244.3	2160.2	2061.1	1894.0	1618.0	1337.7	1123.2	328.8	0.0
33°	2279.9	2272.3	2230.3	2153.8	2070.8	1881.0	1543.6	1261.2	1111.4	279.2	0.0
34°	2249.7	2240.0	2203.4	2125.7	2046.0	1825.0	1472.5	1203.0	1094.1	232.8	0.0
35°	2208.7	2201.2	2163.5	2086.9	2000.7	1737.7	1401.3	1164.2	1069.3	186.5	0.0
36°	2164.5	2162.4	2113.9	2038.4	1942.5	1653.6	1315.1	1135.1	1044.5	147.7	0.0
37°	2135.4	2124.7	2071.8	1997.5	1873.5	1555.5	1246.1	1125.4	1010.0	114.3	0.0
38°	2082.6	2084.8	2024.4	1956.5	1803.4	1470.3	1190.1	1117.8	971.2	83.0	0.0
39°	2020.1	2021.2	1958.7	1900.4	1720.4	1380.9	1143.7	1110.3	922.7	52.8	0.0
40°	1970.5	1969.4	1898.3	1835.8	1631.0	1296.8	1118.9	1099.5	868.8	30.2	0.0
42.5°	1601.9	1608.3	1616.9	1642.8	1420.8	1149.1	1095.2	1039.2	715.8	0.0	0.0
45°	1044.5	1069.3	1075.8	1153.4	1152.3	1088.7	1039.2	931.4	529.3	0.0	0.0
47.5°	993.9	1001.4	1015.4	1045.6	1061.8	1030.5	929.2	778.3	288.9	0.0	0.0
50°	1013.3	1012.2	1015.4	1015.4	986.3	905.5	762.1	574.6	55.0	0.0	0.0
52.5°	727.6	754.6	783.7	796.6	758.9	673.7	556.2	337.4	0.0	0.0	0.0
55°	257.6	249.0	242.5	265.2	259.8	292.1	241.5	78.7	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.1	4.3	9.7	12.9	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	2.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	2.2



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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	2.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	2.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	2.2
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°	682.3	682.3	682.3	682.3
2.5°	546.5	419.3	339.6	344.9
5°	383.8	194.0	119.7	97.0
7.5°	229.6	59.3	11.9	9.7
10°	107.8	9.7	10.8	12.9
12.5°	32.3	8.6	11.9	10.8
15°	8.6	9.7	5.4	3.2
17.5°	3.2	4.3	0.0	0.0
20°	2.2	0.0	0.0	0.0
21°	2.2	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)