

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: P1309624

Luminaire Tested: LDSQA3D20R709030D010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

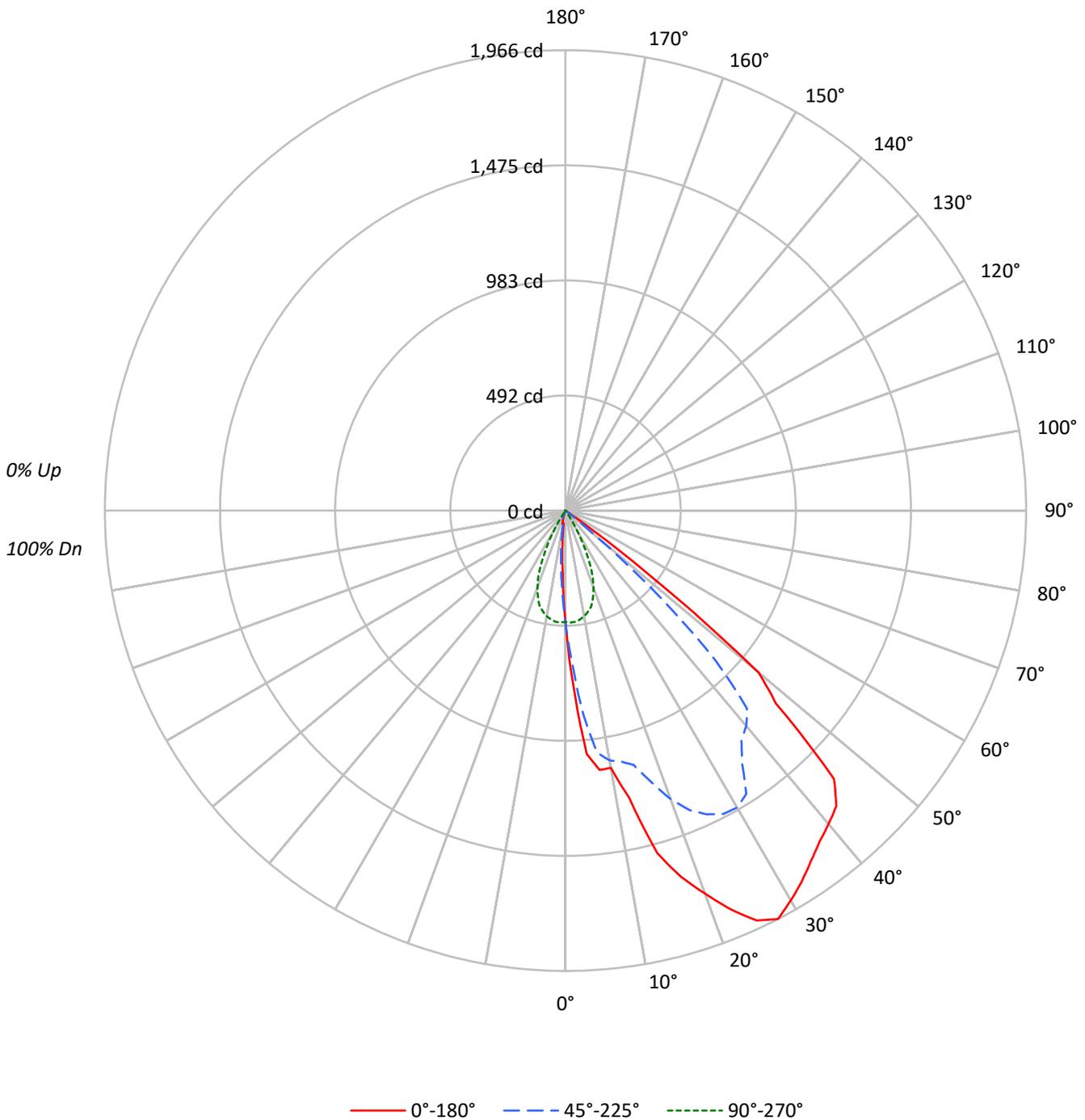
Test Method: LM-79-2019  
Report Number: P1309624  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-57)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R709030D010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1279.0 lumens  
Efficiency: N/A  
Efficacy: 44.4 lumens/watt  
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 28.8  
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				
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	103	110	107	104	102	103	101	99	99	97	96	96	94	93	96	94	93	91
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	88	86	84	82
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	81	78	75	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	75	71	67	66
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	69	64	61	59
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	63	58	55	53
7	74	63	56	50	73	62	55	50	61	55	50	59	54	50	58	53	49	58	53	49	48
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	50	45	41	39
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	46	41	37	36

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

	0°	45°	90°	135°	180°
0°	81754	81754	81754	81754	81754
5°	180349	151340	82378	37446	24653
10°	195061	189377	80165	10423	10738
15°	269997	200478	75616	10627	7720
20°	318881	240146	64165	6286	2309
25°	366979	271985	45264	1026	0
30°	382259	291099	20821	0	0
35°	384013	275862	1135	0	0
40°	392784	269830	0	0	0
45°	394761	221128	0	0	0
50°	288213	45950	0	0	0
55°	16244	0	0	0	0
60°	0	620	620	0	0
65°	0	0	734	0	0
70°	0	906	906	0	0
75°	0	1198	1198	0	0
80°	0	1785	1785	1785	0
85°	0	3557	3557	3557	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°  
 Vertical Angle: 45°  
 Luminance: 402239 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.9	4.1
10°-20°	173.4	13.6
20°-30°	311.7	24.4
30°-40°	378.9	29.6
40°-50°	292.6	22.9
50°-60°	68.1	5.3
60°-70°	0.4	0.0
70°-80°	1.0	0.1
80°-90°	1.0	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°	537.0	42.0
0°-40°	916.0	71.6
0°-60°	1276.6	99.8
0°-90°	1279.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1279.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	475	475	475	475	475	
5°	1043	875	476	217	143	98
15°	1514	1124	424	60	43	423
25°	1931	1431	238	5	0	879
35°	1826	1312	5	0	0	1147
45°	1621	908	0	0	0	1145
55°	54	0	0	0	0	223
65°	0	0	2	0	0	0
75°	0	2	2	0	0	0
85°	0	2	2	2	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	474.7	474.7	474.7	474.7	474.7	474.7	474.7	474.7	474.7	474.7	474.7
2.5°	740.0	740.0	743.6	741.8	725.6	718.3	694.9	682.2	678.6	649.8	638.9
5°	1043.2	1045.0	1036.0	1034.2	1016.1	1003.5	983.7	953.0	922.3	875.4	833.9
7.5°	1117.2	1115.4	1113.6	1113.6	1110.0	1102.8	1093.8	1084.7	1072.1	1043.2	1010.7
10°	1115.4	1115.4	1113.6	1113.6	1111.8	1113.6	1111.8	1106.4	1101.0	1082.9	1064.9
12.5°	1256.2	1245.4	1230.9	1209.3	1173.2	1146.1	1115.4	1106.4	1102.8	1097.4	1086.5
15°	1514.3	1505.3	1474.6	1436.7	1400.6	1339.2	1290.5	1223.7	1171.4	1124.4	1101.0
17.5°	1638.8	1644.2	1609.9	1586.5	1552.2	1503.5	1445.7	1377.1	1303.1	1214.7	1144.3
20°	1739.9	1745.3	1716.4	1693.0	1653.3	1602.7	1552.2	1478.2	1407.8	1310.3	1218.3
22.5°	1842.8	1846.4	1819.3	1785.0	1739.9	1687.6	1622.6	1546.8	1471.0	1384.3	1286.9
25°	1931.2	1927.6	1882.5	1833.8	1790.4	1734.5	1671.3	1597.3	1525.1	1431.3	1339.2
27.5°	1965.5	1963.7	1913.2	1866.2	1815.7	1739.9	1683.9	1619.0	1543.2	1460.1	1366.3
30°	1922.2	1951.1	1918.6	1884.3	1822.9	1747.1	1693.0	1615.4	1545.0	1463.8	1357.3
32.5°	1877.1	1913.2	1902.3	1886.1	1813.9	1754.3	1683.9	1611.8	1528.7	1434.9	1272.4
35°	1826.5	1864.4	1866.2	1848.2	1783.2	1723.7	1658.7	1582.9	1489.0	1312.1	1193.0
37.5°	1781.4	1817.5	1828.3	1790.4	1739.9	1660.5	1600.9	1521.5	1351.9	1232.7	1171.4
40°	1747.1	1774.2	1790.4	1730.9	1680.3	1602.7	1534.1	1395.2	1241.8	1200.2	1113.6
42.5°	1711.0	1736.3	1743.5	1678.5	1600.9	1526.9	1427.7	1252.6	1207.5	1146.1	913.3
45°	1620.8	1651.5	1633.4	1570.2	1512.5	1434.9	1286.9	1211.1	1162.3	907.9	561.3
47.5°	1216.5	1250.8	1299.5	1317.6	1337.4	1281.5	1200.2	1173.2	954.8	550.5	175.1
50°	1075.7	1070.3	1070.3	1079.3	1095.6	1113.6	1137.1	989.1	573.9	171.5	0.0
52.5°	438.6	460.2	566.7	662.4	772.5	882.6	916.9	606.4	223.8	3.6	0.0
55°	54.1	54.1	75.8	130.0	214.8	346.5	389.9	194.9	16.2	0.0	0.0
57.5°	0.0	0.0	0.0	1.8	14.4	39.7	27.1	7.2	1.8	1.8	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
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	1.8	1.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8
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):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	474.7	474.7	474.7	474.7	474.7	474.7	474.7	474.7
2.5°	620.9	599.2	568.5	478.3	400.7	332.1	292.4	272.5
5°	794.1	741.8	671.4	476.5	324.9	216.6	162.4	142.6
7.5°	960.2	900.6	781.5	469.3	249.1	126.3	70.4	56.0
10°	1032.4	989.1	882.6	458.4	180.5	59.6	59.6	61.4
12.5°	1061.3	1028.8	942.1	442.2	119.1	57.8	61.4	57.8
15°	1081.1	1050.4	971.0	424.1	68.6	59.6	48.7	43.3
17.5°	1091.9	1055.9	980.0	389.9	45.1	50.5	30.7	25.3
20°	1126.2	1068.5	987.3	350.1	43.3	34.3	16.2	12.6
22.5°	1184.0	1093.8	989.1	301.4	34.3	19.9	5.4	0.0
25°	1236.3	1128.0	994.5	238.2	10.8	5.4	0.0	0.0
27.5°	1261.6	1138.9	992.7	167.9	0.0	0.0	0.0	0.0
30°	1230.9	1111.8	976.4	104.7	0.0	0.0	0.0	0.0
32.5°	1158.7	1091.9	925.9	45.1	0.0	0.0	0.0	0.0
35°	1135.3	1048.6	810.4	5.4	0.0	0.0	0.0	0.0
37.5°	1082.9	924.1	595.6	0.0	0.0	0.0	0.0	0.0
40°	931.3	667.8	283.4	0.0	0.0	0.0	0.0	0.0
42.5°	615.5	285.2	16.2	0.0	0.0	0.0	0.0	0.0
45°	216.6	18.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.8	1.8	1.8	1.8	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
65°	0.0	0.0	1.8	1.8	0.0	0.0	0.0	0.0
67.5°	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0
70°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0
72.5°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0
75°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0
77.5°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0
80°	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0
85°	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0
87.5°	1.8	1.8	1.8	1.8	1.8	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)