

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: P1318712

Luminaire Tested: LDSQA3D20R609830D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1318712  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-67)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R609830D010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R60 optic, 3000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

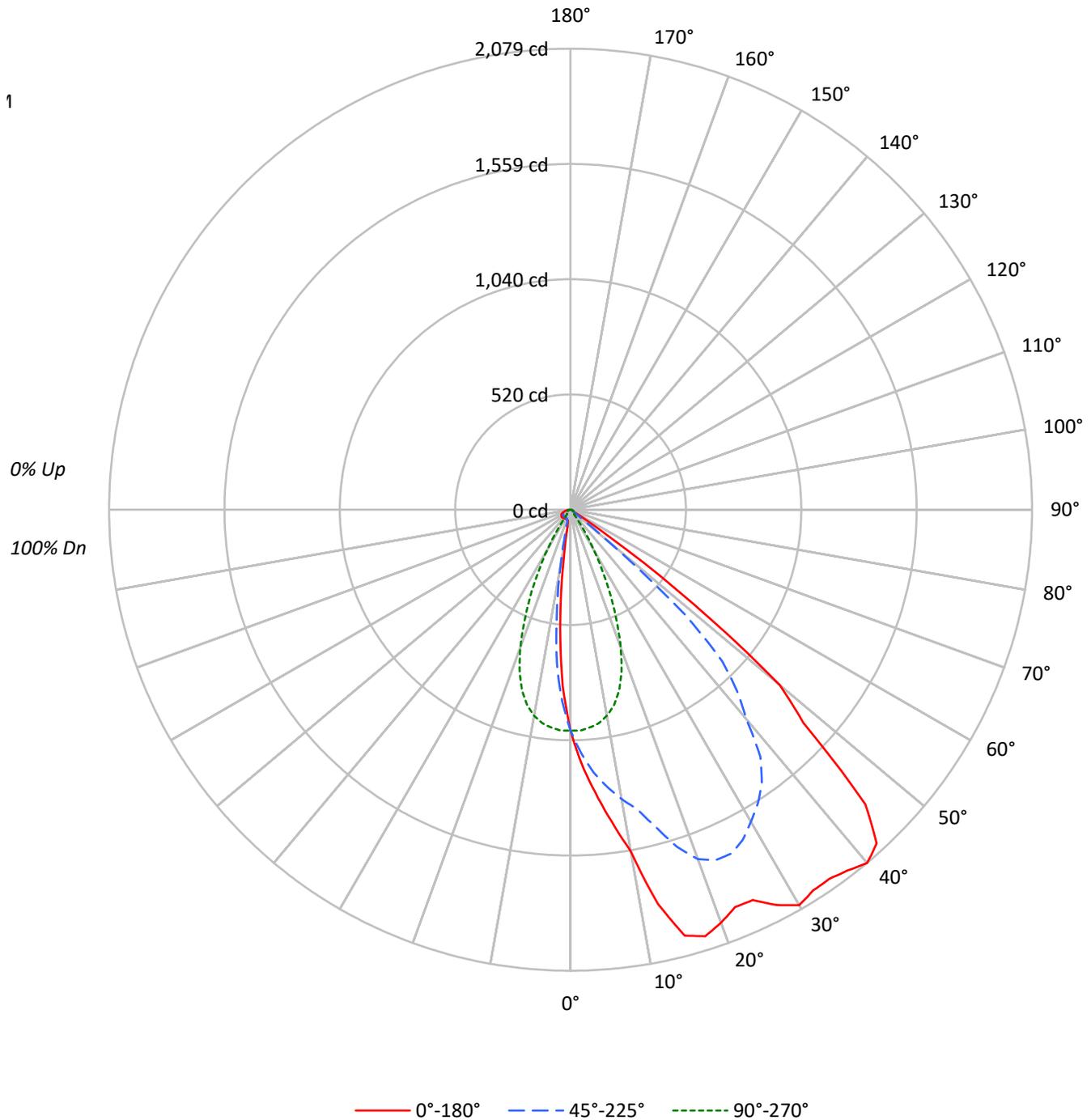
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1617.0 lumens  
Efficiency: N/A  
Efficacy: 59.0 lumens/watt  
Spacing Criteria (0/90/45): 1.62 / 0.77 / 1.26  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 27.4  
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	103	109	106	104	101	102	100	98	99	97	95	95	94	92	95	94	92	90
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	88	85	83	81
3	98	90	84	79	96	88	83	78	85	81	77	83	79	75	81	77	74	81	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	60	58
6	79	68	61	56	78	67	61	55	66	60	55	64	59	55	63	58	54	63	58	54	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	49	47
8	70	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43
9	65	54	46	42	64	53	46	42	52	46	41	51	45	41	50	45	41	50	45	41	39
10	61	50	43	38	60	49	43	38	48	42	38	47	42	38	47	41	38	47	41	38	36

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

	0°	45°	90°	135°	180°
0°	171430	171430	171430	171430	171430
5°	221443	205607	170495	121414	92647
10°	273651	231733	164999	45923	13623
15°	354403	263756	150519	10074	8986
20°	363179	307225	121145	8394	8669
25°	369013	325212	81236	8114	8703
30°	409544	323037	41901	8193	9108
35°	427218	315830	11563	8662	9945
40°	467470	276979	5486	9263	10994
45°	457356	235376	5578	10035	12275
50°	329689	58087	6136	11039	13504
55°	63265	3663	6426	11920	15133
60°	3169	3686	6303	12607	16292
65°	3097	3749	6235	13081	17401
70°	3072	3827	6143	13092	17674
75°	3061	4059	6122	13175	18299
80°	1488	4562	6050	13588	18150
85°	2964	2964	6126	12054	18180

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 457356 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.5	5.4
10°-20°	239.0	14.8
20°-30°	367.8	22.7
30°-40°	431.6	26.7
40°-50°	346.1	21.4
50°-60°	107.5	6.6
60°-70°	20.3	1.3
70°-80°	13.5	0.8
80°-90°	4.7	0.3
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°	693.4	42.9
0°-40°	1124.9	69.6
0°-60°	1578.5	97.6
0°-90°	1617.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1617.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	995	995	995	995	995	
5°	1281	1189	986	702	536	131
15°	1988	1479	844	56	50	544
25°	1942	1711	428	43	46	917
35°	2032	1502	55	41	47	1286
45°	1878	966	23	41	50	1344
55°	211	12	21	40	50	333
65°	8	9	15	32	43	7
75°	5	6	9	20	28	4
85°	2	2	3	6	9	1
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°	995.4	995.4	995.4	995.4	995.4	995.4	995.4	995.4	995.4	995.4	995.4
2.5°	1148.0	1135.8	1135.8	1131.2	1126.7	1128.2	1116.0	1120.6	1108.3	1099.2	1091.6
5°	1280.9	1265.6	1264.1	1256.4	1248.8	1242.7	1227.4	1218.3	1199.9	1189.3	1166.4
7.5°	1418.3	1406.0	1398.4	1389.3	1375.5	1360.2	1334.3	1317.5	1288.5	1259.5	1230.5
10°	1564.8	1554.1	1537.3	1526.6	1488.5	1464.1	1428.9	1406.0	1363.3	1325.1	1280.9
12.5°	1821.3	1815.2	1783.1	1761.8	1706.8	1657.9	1581.6	1520.5	1444.2	1381.6	1322.1
15°	1987.7	1980.1	1963.3	1943.4	1908.3	1853.4	1784.7	1699.2	1592.3	1479.3	1378.6
17.5°	2016.7	2018.2	2007.5	2003.0	1980.1	1945.0	1890.0	1825.9	1719.0	1593.8	1456.4
20°	1981.6	1993.8	1990.8	1999.9	2004.5	1990.8	1954.1	1891.5	1798.4	1676.3	1522.1
22.5°	1938.8	1949.5	1946.5	1963.3	1989.2	2003.0	1990.8	1940.4	1845.7	1709.8	1558.7
25°	1941.9	1949.5	1926.6	1937.3	1970.9	2004.5	2006.0	1961.7	1859.5	1711.4	1555.7
27.5°	2009.1	1986.2	1934.3	1929.7	1970.9	2013.7	2016.7	1961.7	1839.6	1679.3	1525.1
30°	2059.4	2042.7	1984.6	1977.0	2016.7	2045.7	2030.4	1945.0	1792.3	1624.4	1480.8
32.5°	2035.0	2038.1	2013.7	2038.1	2090.0	2102.2	2038.1	1905.3	1726.6	1570.9	1428.9
35°	2032.0	2044.2	2057.9	2096.1	2131.2	2102.2	1999.9	1830.5	1656.4	1502.2	1348.0
37.5°	2050.3	2070.1	2090.0	2123.6	2123.6	2048.8	1899.2	1735.8	1572.4	1404.5	1180.1
40°	2079.3	2091.5	2097.6	2094.6	2053.3	1943.4	1784.7	1621.3	1465.6	1232.0	1068.7
42.5°	2041.1	2039.6	2033.5	2007.5	1931.2	1787.7	1639.6	1506.8	1261.0	1111.4	925.1
45°	1877.8	1877.8	1861.0	1819.8	1749.5	1630.5	1499.2	1305.3	1149.6	966.4	687.0
47.5°	1421.3	1410.6	1428.9	1453.4	1453.4	1442.7	1323.6	1155.7	996.9	697.7	219.8
50°	1230.5	1213.7	1190.8	1195.4	1192.3	1204.5	1128.2	1001.5	737.4	216.8	15.3
52.5°	696.2	726.7	801.5	906.8	954.2	970.9	923.6	761.8	248.8	13.7	12.2
55°	210.7	216.8	245.8	302.3	410.7	525.2	532.8	247.3	16.8	12.2	12.2
57.5°	9.2	9.2	12.2	18.3	42.7	64.1	68.7	15.3	10.7	12.2	12.2
60°	9.2	9.2	9.2	9.2	9.2	9.2	10.7	10.7	10.7	10.7	12.2
62.5°	7.6	7.6	9.2	9.2	9.2	9.2	9.2	9.2	10.7	10.7	10.7
65°	7.6	7.6	7.6	7.6	7.6	7.6	9.2	9.2	9.2	9.2	10.7
67.5°	6.1	6.1	6.1	7.6	7.6	7.6	7.6	7.6	9.2	9.2	9.2
70°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	7.6	7.6	7.6	7.6
72.5°	4.6	4.6	4.6	4.6	4.6	6.1	6.1	6.1	6.1	6.1	7.6
75°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	6.1	6.1	6.1	6.1
77.5°	3.1	3.1	3.1	3.1	3.1	4.6	4.6	4.6	4.6	4.6	4.6
80°	1.5	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.6	4.6
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	3.1	3.1	3.1	3.1	3.1
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.1
87.5°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5
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°	995.4	995.4	995.4	995.4	995.4	995.4	995.4	995.4
2.5°	1080.9	1068.7	1054.9	996.9	940.4	864.1	812.2	796.9
5°	1146.5	1126.7	1096.1	986.2	853.4	702.3	580.1	535.9
7.5°	1201.5	1170.9	1128.2	970.9	749.6	476.3	306.9	259.5
10°	1241.2	1203.0	1148.0	943.5	612.2	262.6	103.8	77.9
12.5°	1274.8	1224.4	1158.7	902.2	445.8	106.9	53.4	53.4
15°	1297.7	1236.6	1163.3	844.2	288.5	56.5	50.4	50.4
17.5°	1329.7	1250.3	1163.3	763.3	157.2	48.9	48.9	48.9
20°	1381.6	1264.1	1146.5	661.0	87.0	45.8	47.3	47.3
22.5°	1409.1	1283.9	1125.1	542.0	55.0	44.3	45.8	45.8
25°	1415.2	1280.9	1079.3	427.5	44.3	42.7	44.3	45.8
27.5°	1393.8	1259.5	1018.3	311.4	39.7	41.2	44.3	45.8
30°	1355.7	1207.6	920.6	210.7	36.6	41.2	44.3	45.8
32.5°	1283.9	1082.4	806.1	126.7	35.1	41.2	44.3	47.3
35°	1123.6	951.1	674.8	55.0	33.6	41.2	45.8	47.3
37.5°	1007.6	819.8	522.1	27.5	33.6	41.2	45.8	48.9
40°	879.3	659.5	241.2	24.4	33.6	41.2	45.8	48.9
42.5°	670.2	305.3	29.0	24.4	32.1	41.2	47.3	48.9
45°	244.3	32.1	15.3	22.9	32.1	41.2	47.3	50.4
47.5°	18.3	12.2	13.7	22.9	32.1	41.2	47.3	50.4
50°	12.2	12.2	13.7	22.9	32.1	41.2	47.3	50.4
52.5°	12.2	13.7	13.7	21.4	30.5	41.2	47.3	50.4
55°	12.2	13.7	13.7	21.4	30.5	39.7	47.3	50.4
57.5°	12.2	12.2	13.7	19.8	29.0	38.2	47.3	48.9
60°	12.2	12.2	13.7	18.3	27.5	36.6	44.3	47.3
62.5°	12.2	12.2	12.2	16.8	26.0	35.1	42.7	45.8
65°	10.7	10.7	12.2	15.3	22.9	32.1	39.7	42.7
67.5°	9.2	10.7	10.7	13.7	21.4	29.0	36.6	39.7
70°	9.2	9.2	9.2	12.2	18.3	26.0	33.6	35.1
72.5°	7.6	7.6	9.2	10.7	16.8	22.9	30.5	32.1
75°	6.1	7.6	7.6	9.2	13.7	19.8	26.0	27.5
77.5°	6.1	6.1	6.1	7.6	12.2	16.8	21.4	22.9
80°	4.6	4.6	4.6	6.1	9.2	13.7	16.8	18.3
82.5°	3.1	4.6	4.6	4.6	7.6	9.2	12.2	13.7
85°	3.1	3.1	3.1	3.1	4.6	6.1	7.6	9.2
87.5°	1.5	1.5	3.1	3.1	3.1	3.1	3.1	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)