

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: P1317827

Luminaire Tested: LDSQA3D20R559827D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317827
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-66)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R559827D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

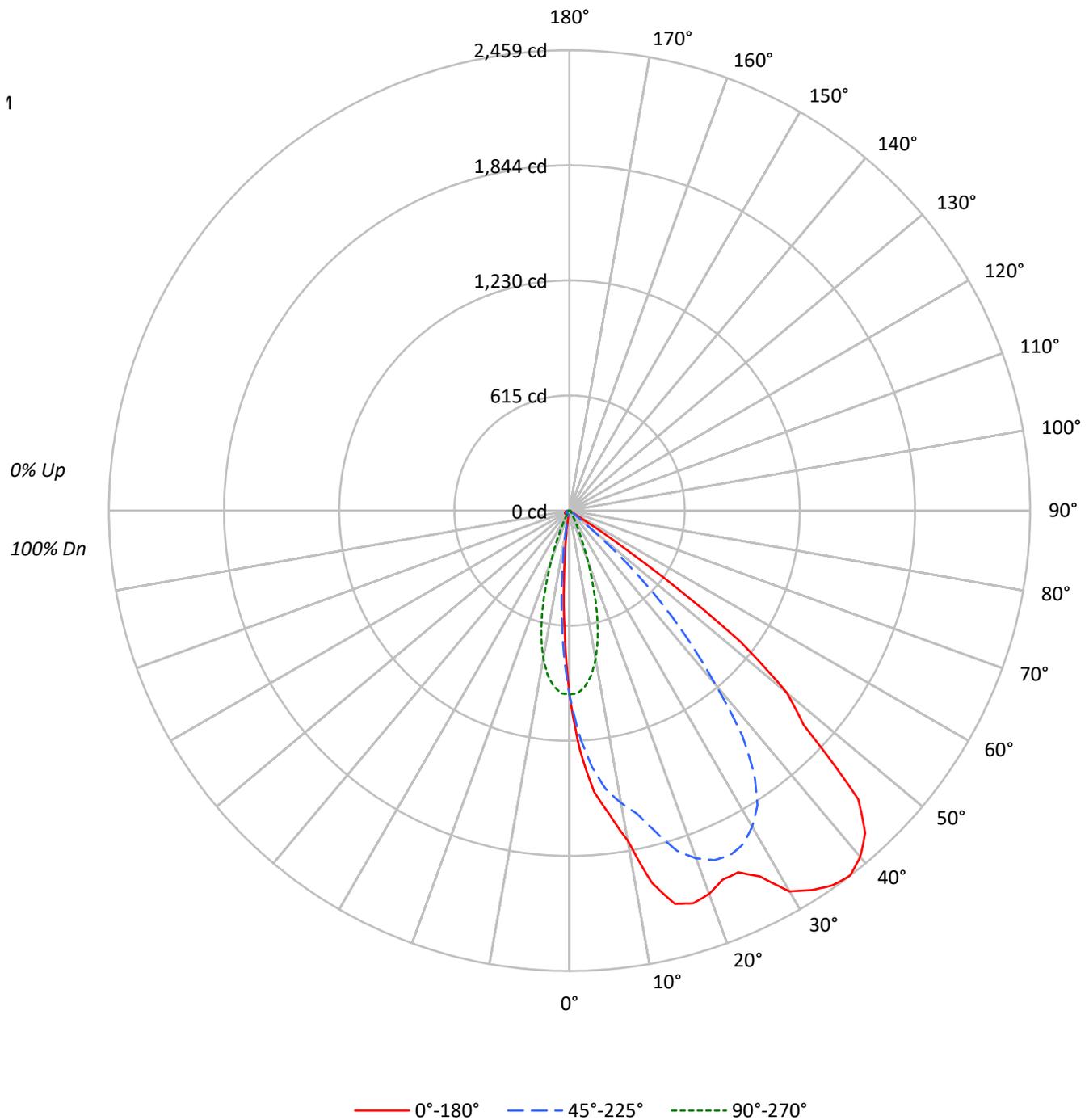
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1637.0 lumens
Efficiency: N/A
Efficacy: 59.7 lumens/watt
Spacing Criteria (0/90/45): 1.79 / 0.55 / 1.22
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_{in}): 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	100	98	99	97	95	95	94	93	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	88	86	83	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	81	78	75	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	75	71	67	65
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	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	59	54	50	48
8	70	58	51	46	68	58	51	46	57	50	46	55	50	46	54	49	45	54	49	45	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	50	45	41	40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	168985	168985	168985	168985	168985
5°	260583	237227	163234	83830	55062
10°	313087	277271	140498	21143	8447
15°	387656	316657	100400	5830	4564
20°	399266	362244	51867	3904	3904
25°	405042	385868	20808	3515	4048
30°	466877	387688	9048	3679	4236
35°	513923	361453	3890	3890	4794
40°	542830	272056	2248	4474	5126
45°	530936	166229	2070	4847	6235
50°	406130	35420	2277	5707	7234
55°	149020	1291	2552	6396	8107
60°	1481	1481	2928	7337	9300
65°	1752	1752	3464	7539	9862
70°	1410	2165	3575	8611	11481
75°	932	1863	3793	9449	13242
80°	1389	2777	4265	9918	14083
85°	0	2766	5533	11263	14030

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 530936 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	5.3
10°-20°	247.4	15.1
20°-30°	379.5	23.2
30°-40°	442.2	27.0
40°-50°	353.3	21.6
50°-60°	104.6	6.4
60°-70°	11.2	0.7
70°-80°	8.8	0.5
80°-90°	3.7	0.2
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°	713.2	43.6
0°-40°	1155.4	70.6
0°-60°	1613.3	98.6
0°-90°	1637.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1637.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	981	981	981	981	981	
5°	1507	1372	944	485	318	150
15°	2174	1776	563	33	26	600
25°	2132	2031	110	18	21	1012
35°	2444	1719	18	18	23	1522
45°	2180	682	8	20	26	1572
55°	496	4	8	21	27	526
65°	4	4	8	18	24	4
75°	1	3	6	14	20	2
85°	0	1	3	6	7	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°	981.2	981.2	981.2	981.2	981.2	981.2	981.2	981.2	981.2	981.2	981.2
2.5°	1279.8	1279.8	1275.5	1276.9	1274.1	1258.4	1255.6	1235.7	1218.6	1200.1	1184.5
5°	1507.3	1510.1	1505.9	1497.3	1486.0	1474.6	1450.4	1431.9	1407.8	1372.2	1339.5
7.5°	1636.7	1633.8	1626.7	1623.9	1616.8	1604.0	1586.9	1567.0	1538.6	1503.0	1464.6
10°	1790.3	1766.1	1759.0	1747.6	1724.9	1699.3	1669.4	1642.4	1618.2	1585.5	1544.3
12.5°	2037.7	2033.4	2005.0	1983.7	1952.4	1895.5	1844.3	1784.6	1713.5	1656.6	1602.6
15°	2174.2	2177.0	2164.2	2147.2	2127.3	2080.3	2029.2	1959.5	1875.6	1776.0	1687.9
17.5°	2198.4	2202.6	2195.5	2188.4	2182.7	2155.7	2124.4	2074.7	1997.9	1905.4	1774.6
20°	2178.5	2187.0	2188.4	2196.9	2208.3	2196.9	2171.4	2137.2	2073.2	1976.5	1851.4
22.5°	2134.4	2150.0	2161.4	2191.3	2221.1	2221.1	2205.5	2178.5	2115.9	2020.6	1892.6
25°	2131.5	2134.4	2138.6	2187.0	2233.9	2243.9	2229.7	2201.2	2133.0	2030.6	1891.2
27.5°	2202.6	2184.2	2155.7	2204.1	2259.5	2268.0	2248.1	2209.7	2128.7	2007.8	1842.9
30°	2347.7	2306.4	2246.7	2282.3	2320.7	2310.7	2270.9	2209.7	2100.3	1949.5	1751.9
32.5°	2403.1	2380.4	2359.1	2397.4	2404.6	2363.3	2292.2	2201.2	2054.8	1867.1	1602.6
35°	2444.4	2445.8	2437.3	2444.4	2410.2	2351.9	2273.7	2154.3	1969.4	1719.2	1404.9
37.5°	2458.6	2461.4	2442.9	2417.4	2366.2	2299.3	2205.5	2069.0	1827.2	1515.8	1106.3
40°	2414.5	2406.0	2376.1	2340.6	2285.1	2216.9	2114.5	1911.1	1615.4	1210.1	863.1
42.5°	2336.3	2322.1	2286.5	2243.9	2185.6	2098.8	1935.3	1689.3	1312.5	944.2	604.3
45°	2179.9	2169.9	2125.8	2094.6	2024.9	1912.6	1702.1	1392.1	1015.3	682.5	349.8
47.5°	1693.6	1695.0	1729.1	1744.8	1720.6	1631.0	1383.6	1057.9	740.8	406.7	118.0
50°	1515.8	1508.7	1474.6	1427.7	1349.5	1215.8	1015.3	748.0	438.0	132.2	17.1
52.5°	1150.4	1150.4	1133.3	1109.1	1026.7	897.3	686.8	413.8	153.6	22.8	4.3
55°	496.3	470.7	484.9	511.9	490.6	426.6	321.4	123.7	27.0	4.3	4.3
57.5°	7.1	17.1	25.6	41.2	55.5	66.8	35.5	12.8	4.3	4.3	4.3
60°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
62.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
65°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
67.5°	2.8	2.8	2.8	4.3	2.8	4.3	4.3	4.3	4.3	4.3	4.3
70°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.3	4.3
72.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
75°	1.4	1.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8	2.8	2.8
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8
85°	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4
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°	981.2	981.2	981.2	981.2	981.2	981.2	981.2	981.2
2.5°	1161.8	1137.6	1097.8	976.9	851.8	736.6	654.1	622.8
5°	1302.5	1258.4	1191.6	944.2	695.3	484.9	365.4	318.5
7.5°	1413.4	1356.6	1259.9	887.3	510.5	258.8	155.0	122.3
10°	1487.4	1424.8	1298.3	803.4	338.4	120.9	58.3	48.3
12.5°	1541.4	1463.2	1312.5	695.3	199.1	55.5	31.3	28.4
15°	1581.2	1480.3	1295.4	563.1	109.5	32.7	25.6	25.6
17.5°	1636.7	1488.8	1254.2	415.2	62.6	24.2	24.2	24.2
20°	1679.4	1488.8	1176.0	283.0	38.4	21.3	21.3	21.3
22.5°	1700.7	1466.1	1080.7	179.2	27.0	19.9	21.3	21.3
25°	1679.4	1410.6	958.4	109.5	21.3	18.5	19.9	21.3
27.5°	1601.1	1299.7	794.9	69.7	17.1	18.5	19.9	21.3
30°	1470.3	1139.0	610.0	45.5	15.6	18.5	19.9	21.3
32.5°	1285.5	900.1	395.3	29.9	14.2	18.5	19.9	21.3
35°	1003.9	637.0	238.9	18.5	14.2	18.5	21.3	22.8
37.5°	752.2	425.2	129.4	11.4	14.2	18.5	21.3	22.8
40°	521.9	247.4	55.5	10.0	14.2	19.9	22.8	22.8
42.5°	302.9	98.1	14.2	8.5	14.2	19.9	22.8	24.2
45°	110.9	19.9	4.3	8.5	15.6	19.9	22.8	25.6
47.5°	15.6	4.3	4.3	8.5	15.6	19.9	24.2	25.6
50°	4.3	4.3	4.3	8.5	15.6	21.3	25.6	27.0
52.5°	4.3	4.3	4.3	8.5	15.6	21.3	25.6	27.0
55°	4.3	4.3	4.3	8.5	15.6	21.3	25.6	27.0
57.5°	4.3	4.3	4.3	8.5	15.6	21.3	25.6	27.0
60°	4.3	4.3	4.3	8.5	14.2	21.3	25.6	27.0
62.5°	4.3	4.3	4.3	8.5	14.2	19.9	24.2	25.6
65°	4.3	4.3	4.3	8.5	12.8	18.5	24.2	24.2
67.5°	4.3	4.3	4.3	7.1	12.8	18.5	22.8	24.2
70°	4.3	4.3	4.3	7.1	11.4	17.1	21.3	22.8
72.5°	4.3	4.3	4.3	5.7	10.0	15.6	19.9	21.3
75°	2.8	4.3	4.3	5.7	10.0	14.2	18.5	19.9
77.5°	2.8	4.3	4.3	4.3	8.5	11.4	15.6	17.1
80°	2.8	2.8	4.3	4.3	7.1	10.0	12.8	14.2
82.5°	2.8	2.8	2.8	4.3	5.7	7.1	10.0	10.0
85°	2.8	2.8	2.8	2.8	4.3	5.7	7.1	7.1
87.5°	1.4	1.4	2.8	2.8	2.8	2.8	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)