

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: P1318703

Luminaire Tested: LDSQA3D20R559830D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318703
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: LDSQA3D20R559830D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R55 optic, 3000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

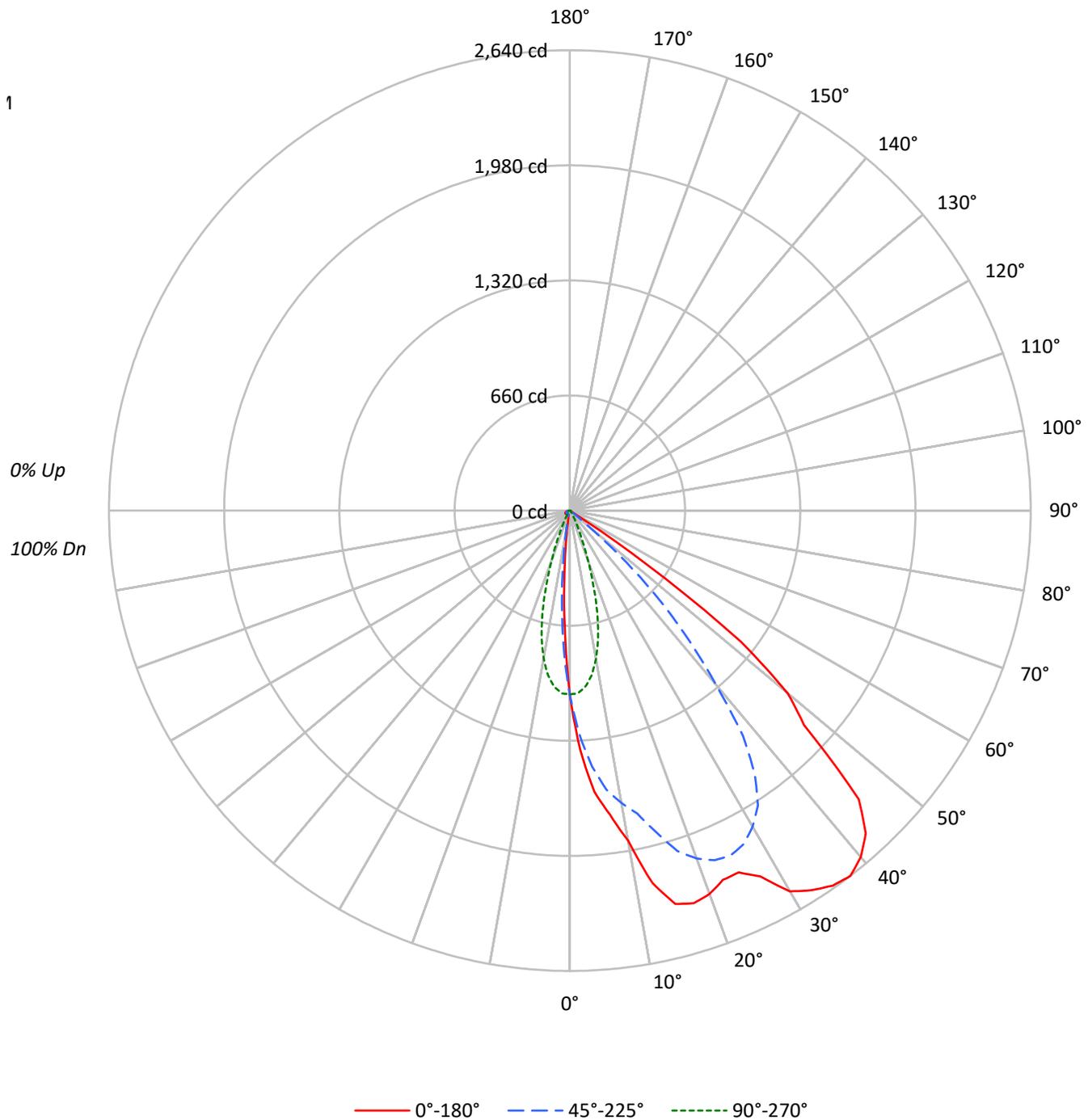
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1758.1 lumens
Efficiency: N/A
Efficacy: 64.2 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 (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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	58	51	46	68	58	51	46	57	50	46	55	50	46	54	49	45	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	181471	181471	181471	181471	181471
5°	279842	254757	175301	90019	59142
10°	336223	297767	150886	22699	9076
15°	416308	340068	107817	6258	4903
20°	428773	389021	55697	4197	4197
25°	434990	414391	22347	3782	4352
30°	501380	416345	9725	3957	4554
35°	551893	388154	4184	4184	5130
40°	582960	292154	2406	4811	5486
45°	570173	178529	2241	5212	6698
50°	436165	38046	2465	6136	7770
55°	160039	1381	2762	6876	8708
60°	1584	1584	3169	7888	9989
65°	1875	1875	3749	8110	10595
70°	1561	2316	3827	9215	12287
75°	998	2063	4059	10181	14240
80°	1488	3075	4562	10612	15174
85°	0	2964	6126	12054	15018

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 570173 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.8	5.3
10°-20°	265.6	15.1
20°-30°	407.5	23.2
30°-40°	474.8	27.0
40°-50°	379.5	21.6
50°-60°	112.3	6.4
60°-70°	12.1	0.7
70°-80°	9.4	0.5
80°-90°	4.0	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°	765.9	43.6
0°-40°	1240.8	70.6
0°-60°	1732.6	98.5
0°-90°	1758.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1758.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1054	1054	1054	1054	1054	
5°	1619	1474	1014	521	342	161
15°	2335	1907	605	35	28	644
25°	2289	2181	118	20	23	1087
35°	2625	1846	20	20	24	1635
45°	2341	733	9	21	28	1688
55°	533	5	9	23	29	565
65°	5	5	9	20	26	4
75°	2	3	6	15	21	2
85°	0	2	3	6	8	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°	1053.7	1053.7	1053.7	1053.7	1053.7	1053.7	1053.7	1053.7	1053.7	1053.7	1053.7
2.5°	1374.4	1374.4	1369.8	1371.3	1368.3	1351.5	1348.4	1327.0	1308.7	1288.9	1272.1
5°	1618.7	1621.8	1617.2	1608.0	1595.8	1583.6	1557.6	1537.8	1511.8	1473.6	1438.5
7.5°	1757.7	1754.6	1747.0	1743.9	1736.3	1722.5	1704.2	1682.8	1652.3	1614.1	1572.9
10°	1922.6	1896.6	1889.0	1876.8	1852.3	1824.9	1792.8	1763.8	1737.8	1702.7	1658.4
12.5°	2188.3	2183.7	2153.2	2130.3	2096.7	2035.6	1980.6	1916.5	1840.1	1779.0	1721.0
15°	2334.9	2338.0	2324.2	2305.9	2284.5	2234.1	2179.1	2104.3	2014.2	1907.3	1812.6
17.5°	2360.9	2365.4	2357.8	2350.2	2344.1	2315.1	2281.5	2228.0	2145.5	2046.3	1905.8
20°	2339.5	2348.6	2350.2	2359.3	2371.6	2359.3	2331.9	2295.2	2226.5	2122.6	1988.3
22.5°	2292.1	2308.9	2321.2	2353.2	2385.3	2385.3	2368.5	2339.5	2272.3	2170.0	2032.5
25°	2289.1	2292.1	2296.7	2348.6	2399.0	2409.7	2394.5	2363.9	2290.6	2180.7	2031.0
27.5°	2365.4	2345.6	2315.1	2367.0	2426.5	2435.7	2414.3	2373.1	2286.0	2156.2	1979.1
30°	2521.2	2476.9	2412.8	2451.0	2492.2	2481.5	2438.7	2373.1	2255.5	2093.6	1881.4
32.5°	2580.8	2556.3	2533.4	2574.7	2582.3	2538.0	2461.7	2363.9	2206.6	2005.1	1721.0
35°	2625.0	2626.6	2617.4	2625.0	2588.4	2525.8	2441.8	2313.5	2115.0	1846.2	1508.8
37.5°	2640.3	2643.4	2623.5	2596.0	2541.1	2469.3	2368.5	2221.9	1962.3	1627.9	1188.1
40°	2593.0	2583.8	2551.7	2513.6	2454.0	2380.7	2270.8	2052.4	1734.8	1299.5	926.9
42.5°	2509.0	2493.7	2455.5	2409.7	2347.1	2254.0	2078.4	1814.2	1409.5	1014.0	649.0
45°	2341.0	2330.3	2283.0	2249.4	2174.6	2053.9	1827.9	1495.0	1090.3	733.0	375.7
47.5°	1818.8	1820.3	1856.9	1873.7	1847.8	1751.6	1485.8	1136.1	795.6	436.7	126.7
50°	1627.9	1620.2	1583.6	1533.2	1449.2	1305.7	1090.3	803.2	470.3	142.0	18.3
52.5°	1235.4	1235.4	1217.1	1191.1	1102.6	963.6	737.6	444.4	164.9	24.4	4.6
55°	533.0	505.5	520.7	549.7	526.8	458.1	345.1	132.9	29.0	4.6	4.6
57.5°	7.6	18.3	27.5	44.3	59.6	71.8	38.2	13.7	4.6	4.6	4.6
60°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
62.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
65°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
67.5°	3.1	3.1	3.1	4.6	3.1	4.6	4.6	4.6	4.6	4.6	4.6
70°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.6	4.6
72.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
75°	1.5	1.5	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	3.1	3.1	3.1	3.1	3.1
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.1	3.1	3.1
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.1	3.1
85°	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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°	1053.7	1053.7	1053.7	1053.7	1053.7	1053.7	1053.7	1053.7
2.5°	1247.6	1221.7	1178.9	1049.1	914.7	791.0	702.5	668.9
5°	1398.8	1351.5	1279.7	1014.0	746.7	520.7	392.5	342.1
7.5°	1517.9	1456.8	1353.0	952.9	548.2	277.9	166.5	131.3
10°	1597.3	1530.1	1394.2	862.8	363.4	129.8	62.6	51.9
12.5°	1655.4	1571.4	1409.5	746.7	213.8	59.6	33.6	30.5
15°	1698.1	1589.7	1391.2	604.7	117.6	35.1	27.5	27.5
17.5°	1757.7	1598.9	1346.9	445.9	67.2	26.0	26.0	26.0
20°	1803.5	1598.9	1262.9	303.9	41.2	22.9	22.9	22.9
22.5°	1826.4	1574.4	1160.6	192.4	29.0	21.4	22.9	22.9
25°	1803.5	1514.9	1029.3	117.6	22.9	19.9	21.4	22.9
27.5°	1719.5	1395.8	853.6	74.8	18.3	19.9	21.4	22.9
30°	1579.0	1223.2	655.1	48.9	16.8	19.9	21.4	22.9
32.5°	1380.5	966.6	424.5	32.1	15.3	19.9	21.4	22.9
35°	1078.1	684.1	256.5	19.9	15.3	19.9	22.9	24.4
37.5°	807.8	456.6	139.0	12.2	15.3	19.9	22.9	24.4
40°	560.4	265.7	59.6	10.7	15.3	21.4	24.4	24.4
42.5°	325.3	105.4	15.3	9.2	15.3	21.4	24.4	26.0
45°	119.1	21.4	4.6	9.2	16.8	21.4	24.4	27.5
47.5°	16.8	4.6	4.6	9.2	16.8	21.4	26.0	27.5
50°	4.6	4.6	4.6	9.2	16.8	22.9	27.5	29.0
52.5°	4.6	4.6	4.6	9.2	16.8	22.9	27.5	29.0
55°	4.6	4.6	4.6	9.2	16.8	22.9	27.5	29.0
57.5°	4.6	4.6	4.6	9.2	16.8	22.9	27.5	29.0
60°	4.6	4.6	4.6	9.2	15.3	22.9	27.5	29.0
62.5°	4.6	4.6	4.6	9.2	15.3	21.4	26.0	27.5
65°	4.6	4.6	4.6	9.2	13.7	19.9	26.0	26.0
67.5°	4.6	4.6	4.6	7.6	13.7	19.9	24.4	26.0
70°	4.6	4.6	4.6	7.6	12.2	18.3	22.9	24.4
72.5°	4.6	4.6	4.6	6.1	10.7	16.8	21.4	22.9
75°	3.1	4.6	4.6	6.1	10.7	15.3	19.9	21.4
77.5°	3.1	4.6	4.6	4.6	9.2	12.2	16.8	18.3
80°	3.1	3.1	4.6	4.6	7.6	10.7	13.7	15.3
82.5°	3.1	3.1	3.1	4.6	6.1	7.6	10.7	10.7
85°	3.1	3.1	3.1	3.1	4.6	6.1	7.6	7.6
87.5°	1.5	1.5	3.1	3.1	3.1	3.1	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)