

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: P1317818

Luminaire Tested: LDSQA3D20R509827D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317818
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R509827D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

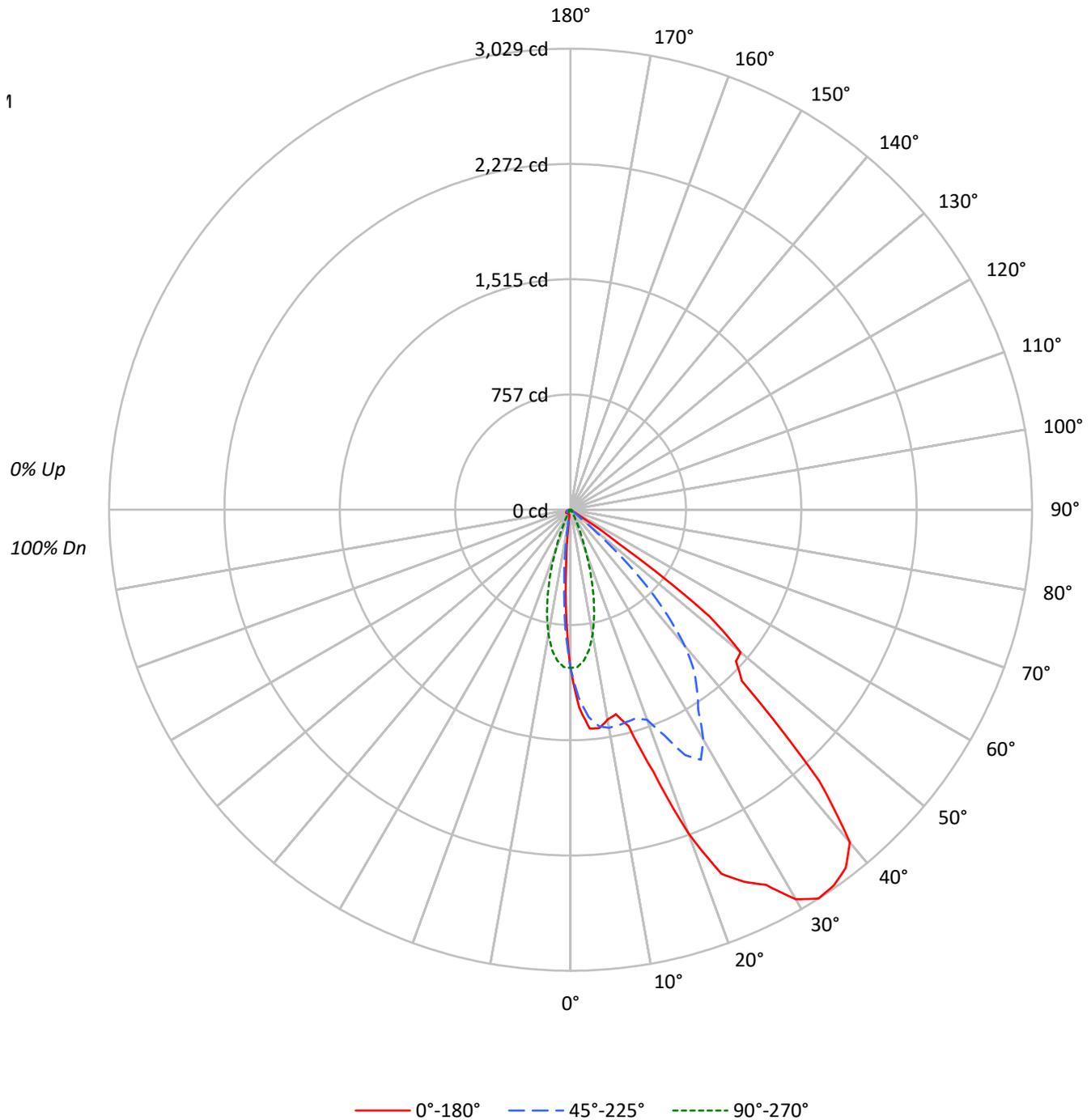
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1616.0 lumens
Efficiency: N/A
Efficacy: 59.0 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
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

TEST NUMBER: P1317818
CATALOG NUMBER: LDSQA3D20R509827D010 3LSQCA30R 1MW

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	101	102	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	85	83	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	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	68	61	55	66	60	55	64	59	55	63	58	54	63	58	54	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	49	47
8	69	58	51	45	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	46	41	51	45	41	50	45	41	50	45	41	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	37	46	41	37	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	178939	178939	178939	178939	178939
5°	249484	236691	171982	82671	53645
10°	244901	254362	145360	17418	7467
15°	262633	257052	102771	6098	5830
20°	414734	269195	54250	5223	5480
25°	512502	338057	21644	4865	5416
30°	587568	346702	8770	4813	5668
35°	633468	304309	3890	5088	6286
40°	641211	262051	2878	5755	7037
45°	387552	169858	2777	6235	7964
50°	390482	29365	3054	7234	9163
55°	115390	1711	3423	8107	10269
60°	1963	1963	3444	8818	11263
65°	1752	1752	3464	9291	12185
70°	2165	2165	3575	10021	13596
75°	1863	1863	3793	10447	14173
80°	1389	2777	4265	9918	15571
85°	2766	5533	5533	11263	14030

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 442670 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	5.2
10°-20°	208.6	12.9
20°-30°	390.8	24.2
30°-40°	467.2	28.9
40°-50°	334.8	20.7
50°-60°	103.2	6.4
60°-70°	13.5	0.8
70°-80°	9.8	0.6
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°	683.4	42.3
0°-40°	1150.7	71.2
0°-60°	1588.7	98.3
0°-90°	1616.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1616.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1039	1039	1039	1039	1039	
5°	1443	1369	995	478	310	134
15°	1473	1442	576	34	33	472
25°	2697	1779	114	26	28	1243
35°	3013	1447	18	24	30	1869
45°	1591	697	11	26	33	1461
55°	384	6	11	27	34	495
65°	4	4	8	23	30	5
75°	3	3	6	16	21	3
85°	1	3	3	6	7	1
90°	0	0	0	0	0	



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 CATALOG NUMBER: LDSQA3D20R509827D010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1039.0	1039.0	1039.0	1039.0	1039.0	1039.0	1039.0	1039.0	1039.0	1039.0	1039.0
2.5°	1299.4	1302.2	1306.5	1295.1	1288.0	1282.3	1272.4	1269.5	1245.3	1235.4	1225.4
5°	1443.1	1440.3	1443.1	1438.9	1436.0	1427.5	1419.0	1404.7	1389.1	1369.1	1346.4
7.5°	1447.4	1444.6	1450.3	1450.3	1456.0	1456.0	1456.0	1457.4	1448.8	1434.6	1414.7
10°	1400.4	1400.4	1406.1	1403.3	1413.3	1417.5	1427.5	1444.6	1453.1	1454.5	1448.8
12.5°	1376.3	1376.3	1377.7	1372.0	1374.8	1379.1	1390.5	1410.4	1430.3	1450.3	1461.6
15°	1473.0	1475.9	1456.0	1427.5	1406.1	1383.4	1376.3	1389.1	1410.4	1441.7	1467.3
17.5°	1801.8	1806.1	1784.7	1716.4	1650.9	1557.0	1473.0	1431.8	1409.0	1434.6	1468.8
20°	2262.9	2247.3	2210.3	2137.7	2042.3	1897.2	1766.2	1633.9	1507.2	1468.8	1480.1
22.5°	2588.8	2583.1	2553.3	2472.1	2389.6	2254.4	2087.9	1902.8	1719.2	1602.5	1541.3
25°	2697.0	2692.7	2665.7	2617.3	2571.8	2469.3	2319.8	2133.4	1941.3	1779.0	1625.3
27.5°	2778.1	2772.4	2729.7	2675.7	2628.7	2524.8	2388.2	2247.3	2070.8	1851.6	1615.4
30°	2954.6	2938.9	2879.2	2782.4	2692.7	2549.0	2398.1	2223.1	1984.0	1743.4	1512.9
32.5°	3028.6	3020.1	2968.8	2890.6	2792.4	2604.5	2375.4	2082.2	1767.6	1559.8	1391.9
35°	3013.0	3000.1	2947.5	2857.8	2738.3	2557.5	2251.5	1848.8	1592.6	1447.4	1258.1
37.5°	2966.0	2947.5	2884.9	2779.5	2634.4	2398.1	1998.2	1659.5	1494.4	1330.7	1076.0
40°	2852.1	2822.2	2749.7	2640.1	2494.9	2184.6	1767.6	1545.6	1391.9	1165.6	872.4
42.5°	2416.6	2401.0	2436.6	2418.1	2290.0	1924.2	1604.0	1441.7	1229.7	942.2	631.9
45°	1591.2	1618.2	1682.2	1791.8	1817.5	1655.2	1470.2	1270.9	1011.9	697.4	364.3
47.5°	1473.0	1467.3	1483.0	1504.3	1508.6	1440.3	1272.4	1050.3	751.5	398.5	101.0
50°	1457.4	1448.8	1436.0	1410.4	1356.3	1224.0	1033.3	765.7	434.1	109.6	7.1
52.5°	1151.4	1142.8	1142.8	1105.8	1036.1	908.0	713.0	421.3	121.0	7.1	5.7
55°	384.3	409.9	405.6	404.2	435.5	401.3	307.4	108.2	10.0	5.7	5.7
57.5°	7.1	7.1	7.1	12.8	19.9	28.5	17.1	8.5	5.7	5.7	5.7
60°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
62.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
65°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.7
67.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
70°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
72.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.3	4.3	4.3
75°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.3
77.5°	1.4	1.4	1.4	1.4	2.8	2.8	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	2.8	2.8	2.8	2.8
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8
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°	1039.0	1039.0	1039.0	1039.0	1039.0	1039.0	1039.0	1039.0
2.5°	1202.6	1182.7	1144.3	1034.7	913.7	775.7	681.7	670.3
5°	1310.8	1280.9	1218.3	994.8	718.7	478.2	355.8	310.3
7.5°	1381.9	1342.1	1265.2	929.4	523.7	251.9	135.2	108.2
10°	1424.6	1387.6	1289.4	831.2	333.0	99.6	45.5	42.7
12.5°	1447.4	1411.8	1298.0	713.0	187.9	45.5	35.6	35.6
15°	1463.1	1424.6	1285.2	576.4	93.9	34.2	32.7	32.7
17.5°	1470.2	1423.2	1248.2	434.1	49.8	31.3	31.3	31.3
20°	1474.5	1407.6	1179.8	296.0	34.2	28.5	29.9	29.9
22.5°	1478.7	1369.1	1090.2	187.9	27.0	27.0	28.5	28.5
25°	1470.2	1302.2	963.5	113.9	24.2	25.6	27.0	28.5
27.5°	1409.0	1201.2	809.8	69.7	21.3	24.2	27.0	28.5
30°	1303.7	1053.2	631.9	44.1	19.9	24.2	27.0	28.5
32.5°	1167.0	883.8	451.2	27.0	19.9	24.2	27.0	28.5
35°	983.4	676.0	293.2	18.5	19.9	24.2	28.5	29.9
37.5°	777.1	472.5	158.0	14.2	19.9	24.2	28.5	29.9
40°	559.3	283.2	56.9	12.8	18.5	25.6	29.9	31.3
42.5°	327.3	105.3	10.0	11.4	18.5	25.6	29.9	31.3
45°	93.9	11.4	5.7	11.4	18.5	25.6	31.3	32.7
47.5°	7.1	4.3	5.7	11.4	18.5	25.6	31.3	34.2
50°	4.3	4.3	4.3	11.4	18.5	27.0	32.7	34.2
52.5°	5.7	5.7	5.7	11.4	18.5	27.0	32.7	34.2
55°	5.7	5.7	5.7	11.4	18.5	27.0	32.7	34.2
57.5°	5.7	5.7	5.7	11.4	18.5	25.6	32.7	34.2
60°	5.7	5.7	5.7	10.0	17.1	25.6	31.3	32.7
62.5°	5.7	5.7	5.7	10.0	17.1	24.2	31.3	31.3
65°	5.7	5.7	5.7	8.5	15.7	22.8	28.5	29.9
67.5°	5.7	5.7	5.7	8.5	14.2	21.3	27.0	28.5
70°	4.3	5.7	5.7	7.1	12.8	19.9	25.6	27.0
72.5°	4.3	4.3	5.7	7.1	11.4	17.1	22.8	24.2
75°	4.3	4.3	4.3	5.7	10.0	15.7	19.9	21.3
77.5°	4.3	4.3	4.3	5.7	8.5	12.8	18.5	18.5
80°	2.8	4.3	4.3	4.3	7.1	10.0	14.2	15.7
82.5°	2.8	2.8	2.8	4.3	5.7	8.5	11.4	11.4
85°	2.8	2.8	2.8	2.8	4.3	5.7	7.1	7.1
87.5°	1.4	2.8	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)