

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: P1314998

Luminaire Tested: LDSQA3D20R509730D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314998
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: LDSQA3D20R509730D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

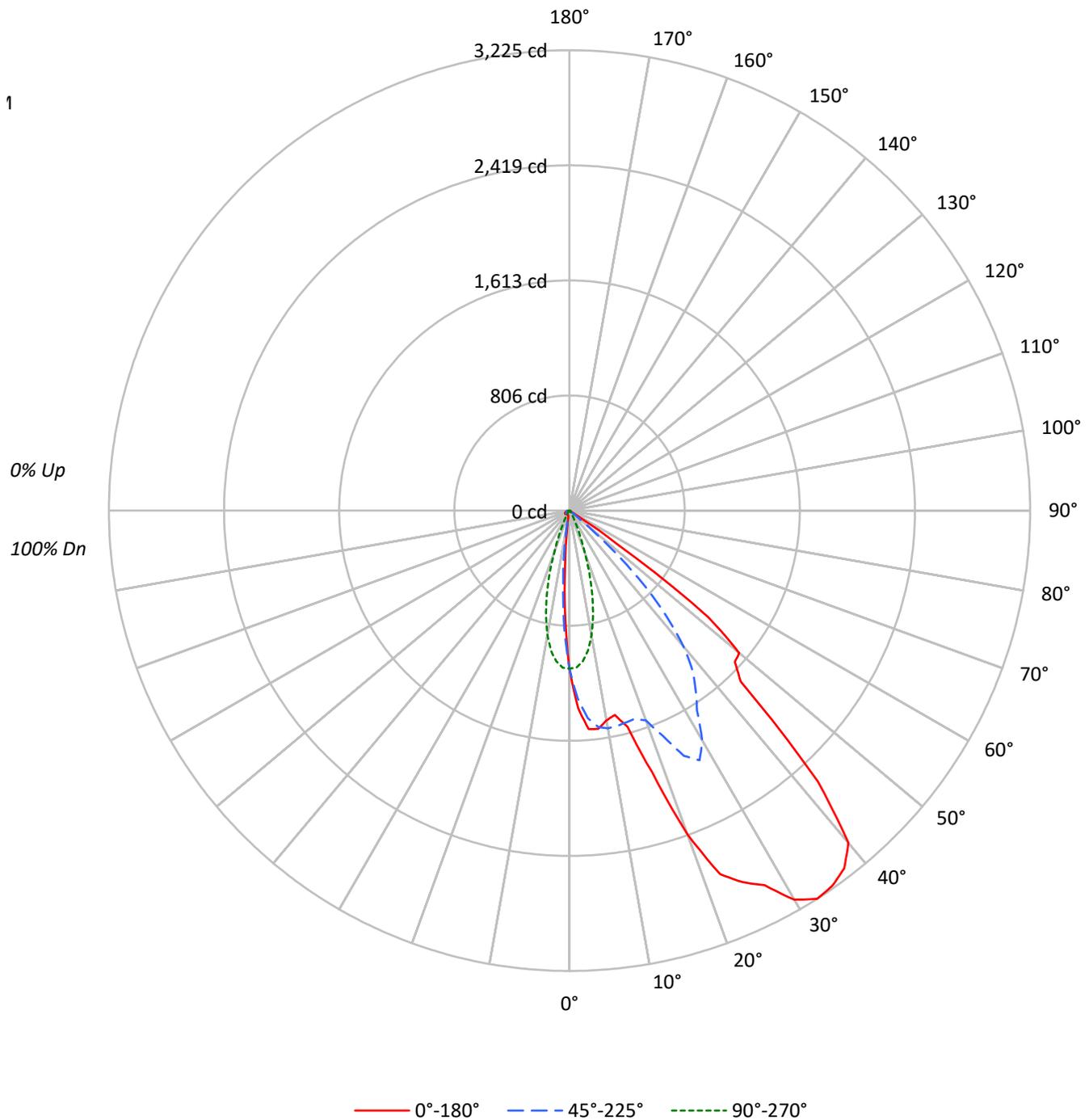
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1721.0 lumens
Efficiency: N/A
Efficacy: 59.8 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): 28.8
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	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°	190564	190564	190564	190564	190564
5°	265700	252077	183167	88048	57120
10°	260815	270888	154803	18555	7957
15°	279696	273759	109457	6490	6223
20°	441694	286680	57787	5553	5828
25°	545795	360025	23050	5188	5758
30°	625750	369234	9347	5131	6026
35°	674613	324093	4142	5424	6686
40°	682893	279092	3058	6138	7487
45°	412712	180892	2947	6649	8500
50°	415855	31268	3242	7716	9753
55°	122867	1832	3633	8648	10930
60°	2101	2101	3651	9403	12021
65°	1834	1834	3708	9903	12959
70°	2266	2266	3827	10675	14502
75°	1996	1996	4059	11112	15105
80°	1488	2975	4463	10513	16563
85°	2964	5928	5928	12054	15018

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 471410 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.5	5.2
10°-20°	222.2	12.9
20°-30°	416.2	24.2
30°-40°	497.6	28.9
40°-50°	356.6	20.7
50°-60°	109.9	6.4
60°-70°	14.4	0.8
70°-80°	10.4	0.6
80°-90°	4.2	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°	727.8	42.3
0°-40°	1225.4	71.2
0°-60°	1692.0	98.3
0°-90°	1721.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1721.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1106	1106	1106	1106	1106	
5°	1537	1458	1060	509	330	143
15°	1569	1535	614	36	35	502
25°	2872	1895	121	27	30	1323
35°	3209	1542	20	26	32	1991
45°	1694	743	12	27	35	1556
55°	409	6	12	29	36	527
65°	4	4	9	24	32	5
75°	3	3	6	17	23	3
85°	2	3	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°	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5
2.5°	1383.8	1386.9	1391.4	1379.3	1371.7	1365.6	1355.0	1352.0	1326.2	1315.6	1305.0
5°	1536.9	1533.9	1536.9	1532.4	1529.3	1520.2	1511.1	1496.0	1479.3	1458.1	1433.8
7.5°	1541.5	1538.4	1544.5	1544.5	1550.6	1550.6	1550.6	1552.1	1543.0	1527.8	1506.6
10°	1491.4	1491.4	1497.5	1494.5	1505.1	1509.6	1520.2	1538.4	1547.5	1549.0	1543.0
12.5°	1465.7	1465.7	1467.2	1461.1	1464.2	1468.7	1480.8	1502.1	1523.3	1544.5	1556.6
15°	1568.7	1571.8	1550.6	1520.2	1497.5	1473.3	1465.7	1479.3	1502.1	1535.4	1562.7
17.5°	1918.9	1923.4	1900.7	1827.9	1758.2	1658.2	1568.7	1524.8	1500.5	1527.8	1564.2
20°	2410.0	2393.3	2353.9	2276.6	2175.0	2020.4	1881.0	1740.0	1605.1	1564.2	1576.3
22.5°	2757.0	2751.0	2719.2	2632.8	2544.8	2400.9	2223.5	2026.5	1831.0	1706.7	1641.5
25°	2872.2	2867.7	2838.9	2787.4	2738.9	2629.7	2470.6	2272.0	2067.4	1894.6	1730.9
27.5°	2958.6	2952.6	2907.1	2849.5	2799.5	2688.8	2543.3	2393.3	2205.3	1971.9	1720.3
30°	3146.6	3129.9	3066.2	2963.2	2867.7	2714.6	2553.9	2367.5	2112.9	1856.7	1611.2
32.5°	3225.4	3216.3	3161.7	3078.4	2973.8	2773.7	2529.7	2217.5	1882.5	1661.2	1482.3
35°	3208.7	3195.1	3139.0	3043.5	2916.2	2723.7	2397.8	1968.9	1696.1	1541.5	1339.9
37.5°	3158.7	3139.0	3072.3	2960.1	2805.5	2553.9	2128.0	1767.3	1591.5	1417.2	1145.9
40°	3037.5	3005.6	2928.3	2811.6	2657.0	2326.6	1882.5	1646.0	1482.3	1241.4	929.1
42.5°	2573.6	2557.0	2594.9	2575.2	2438.8	2049.2	1708.2	1535.4	1309.6	1003.4	673.0
45°	1694.5	1723.3	1791.6	1908.3	1935.5	1762.8	1565.7	1353.5	1077.7	742.7	388.0
47.5°	1568.7	1562.7	1579.4	1602.1	1606.6	1533.9	1355.0	1118.6	800.3	424.4	107.6
50°	1552.1	1543.0	1529.3	1502.1	1444.5	1303.5	1100.4	815.4	462.3	116.7	7.6
52.5°	1226.2	1217.1	1217.1	1177.7	1103.4	967.0	759.4	448.6	128.8	7.6	6.1
55°	409.2	436.5	432.0	430.5	463.8	427.4	327.4	115.2	10.6	6.1	6.1
57.5°	7.6	7.6	7.6	13.6	21.2	30.3	18.2	9.1	6.1	6.1	6.1
60°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
62.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
65°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	6.1
67.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
70°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
72.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.5	4.5	4.5
75°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.5
77.5°	1.5	1.5	1.5	1.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0	3.0	3.0	3.0
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0	3.0	3.0
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0	3.0
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°	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5
2.5°	1280.8	1259.5	1218.6	1101.9	973.1	826.1	726.0	713.9
5°	1396.0	1364.1	1297.4	1059.5	765.4	509.3	378.9	330.4
7.5°	1471.7	1429.3	1347.5	989.7	557.8	268.3	144.0	115.2
10°	1517.2	1477.8	1373.2	885.2	354.7	106.1	48.5	45.5
12.5°	1541.5	1503.6	1382.3	759.4	200.1	48.5	37.9	37.9
15°	1558.1	1517.2	1368.7	613.9	100.0	36.4	34.9	34.9
17.5°	1565.7	1515.7	1329.3	462.3	53.0	33.3	33.3	33.3
20°	1570.3	1499.0	1256.5	315.3	36.4	30.3	31.8	31.8
22.5°	1574.8	1458.1	1161.0	200.1	28.8	28.8	30.3	30.3
25°	1565.7	1386.9	1026.1	121.3	25.8	27.3	28.8	30.3
27.5°	1500.5	1279.2	862.4	74.3	22.7	25.8	28.8	30.3
30°	1388.4	1121.6	673.0	47.0	21.2	25.8	28.8	30.3
32.5°	1242.9	941.2	480.5	28.8	21.2	25.8	28.8	30.3
35°	1047.3	720.0	312.2	19.7	21.2	25.8	30.3	31.8
37.5°	827.6	503.2	168.2	15.2	21.2	25.8	30.3	31.8
40°	595.7	301.6	60.6	13.6	19.7	27.3	31.8	33.3
42.5°	348.6	112.2	10.6	12.1	19.7	27.3	31.8	33.3
45°	100.0	12.1	6.1	12.1	19.7	27.3	33.3	34.9
47.5°	7.6	4.5	6.1	12.1	19.7	27.3	33.3	36.4
50°	4.5	4.5	4.5	12.1	19.7	28.8	34.9	36.4
52.5°	6.1	6.1	6.1	12.1	19.7	28.8	34.9	36.4
55°	6.1	6.1	6.1	12.1	19.7	28.8	34.9	36.4
57.5°	6.1	6.1	6.1	12.1	19.7	27.3	34.9	36.4
60°	6.1	6.1	6.1	10.6	18.2	27.3	33.3	34.9
62.5°	6.1	6.1	6.1	10.6	18.2	25.8	33.3	33.3
65°	6.1	6.1	6.1	9.1	16.7	24.3	30.3	31.8
67.5°	6.1	6.1	6.1	9.1	15.2	22.7	28.8	30.3
70°	4.5	6.1	6.1	7.6	13.6	21.2	27.3	28.8
72.5°	4.5	4.5	6.1	7.6	12.1	18.2	24.3	25.8
75°	4.5	4.5	4.5	6.1	10.6	16.7	21.2	22.7
77.5°	4.5	4.5	4.5	6.1	9.1	13.6	19.7	19.7
80°	3.0	4.5	4.5	4.5	7.6	10.6	15.2	16.7
82.5°	3.0	3.0	3.0	4.5	6.1	9.1	12.1	12.1
85°	3.0	3.0	3.0	3.0	4.5	6.1	7.6	7.6
87.5°	1.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)