

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: P1308477

Luminaire Tested: LDSQA3D20R509027D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

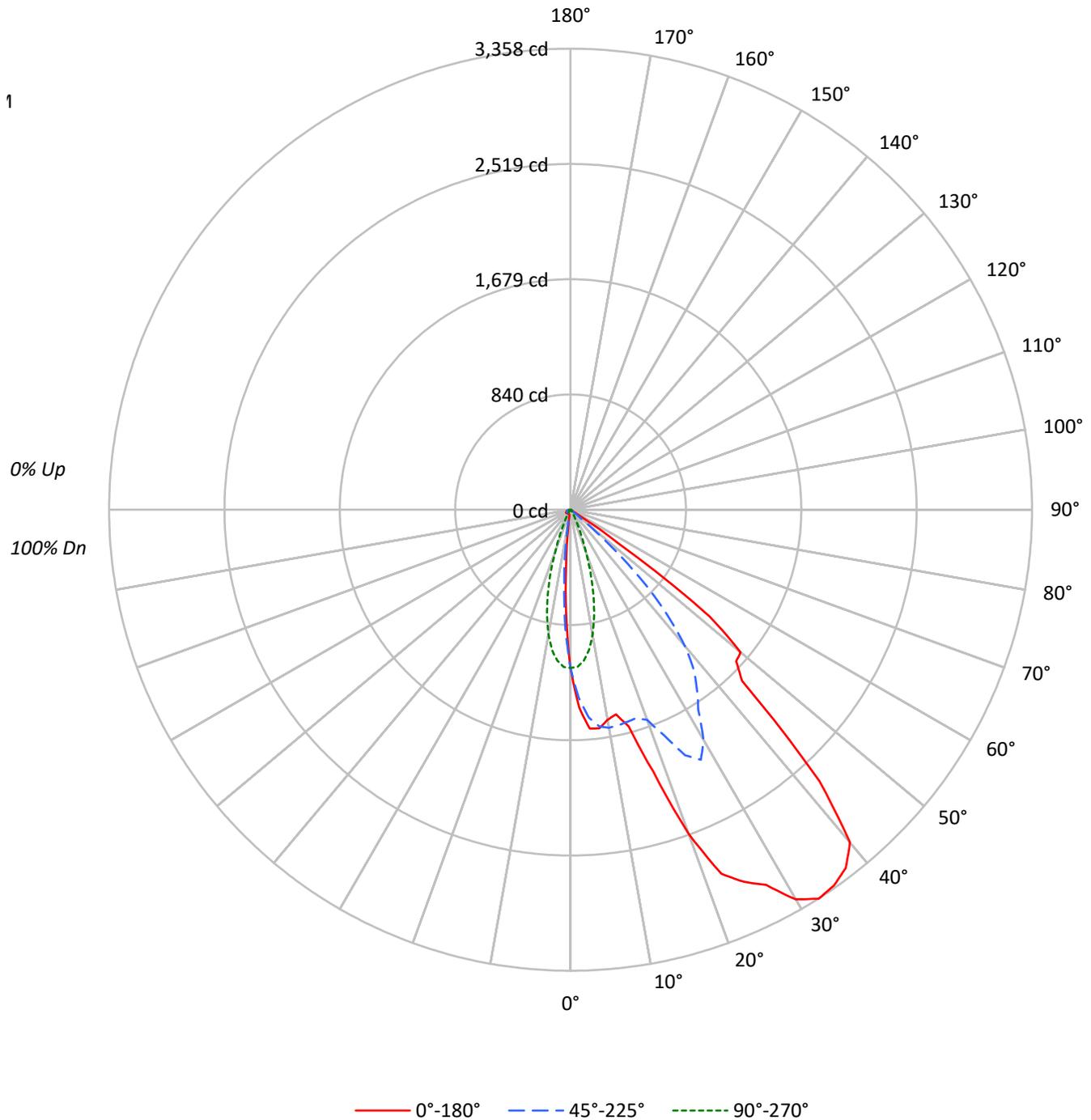
Test Method: LM-79-2019  
Report Number: P1308477  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R509027D010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1792.0 lumens  
Efficiency: N/A  
Efficacy: 62.2 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 (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	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°	198418	198418	198418	198418	198418
5°	276661	262484	190722	91679	59488
10°	271588	282063	161186	19324	8272
15°	291250	285045	113968	6757	6472
20°	459912	298501	60169	5792	6066
25°	568313	374885	24000	5397	6005
30°	651563	384467	9725	5330	6284
35°	702450	337464	4310	5635	6959
40°	711063	290603	3192	6385	7801
45°	429761	188345	3069	6917	8841
50°	433003	32554	3376	8038	10155
55°	127941	1892	3783	9008	11380
60°	2170	2170	3789	9782	12503
65°	1915	1915	3871	10310	13489
70°	2367	2367	3978	11128	15106
75°	2129	2129	4192	11578	15770
80°	1587	3174	4661	10910	17257
85°	3162	6323	6323	12449	15611

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 490870 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.2	5.2
10°-20°	231.3	12.9
20°-30°	433.4	24.2
30°-40°	518.1	28.9
40°-50°	371.3	20.7
50°-60°	114.4	6.4
60°-70°	14.9	0.8
70°-80°	10.9	0.6
80°-90°	4.5	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°	757.9	42.3
0°-40°	1276.0	71.2
0°-60°	1761.7	98.3
0°-90°	1792.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1792.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1152	1152	1152	1152	1152	
5°	1600	1518	1103	530	344	149
15°	1634	1599	639	38	36	523
25°	2991	1973	126	28	32	1378
35°	3341	1605	20	27	33	2073
45°	1764	773	13	28	36	1621
55°	426	6	13	30	38	549
65°	5	5	10	25	33	5
75°	3	3	6	17	24	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°	1152.1	1152.1	1152.1	1152.1	1152.1	1152.1	1152.1	1152.1	1152.1	1152.1	1152.1
2.5°	1440.9	1444.1	1448.8	1436.2	1428.3	1422.0	1410.9	1407.8	1380.9	1369.9	1358.9
5°	1600.3	1597.2	1600.3	1595.6	1592.4	1583.0	1573.5	1557.7	1540.3	1518.3	1493.0
7.5°	1605.1	1601.9	1608.2	1608.2	1614.5	1614.5	1614.5	1616.1	1606.6	1590.8	1568.8
10°	1553.0	1553.0	1559.3	1556.1	1567.2	1571.9	1583.0	1601.9	1611.4	1612.9	1606.6
12.5°	1526.1	1526.1	1527.7	1521.4	1524.6	1529.3	1541.9	1564.0	1586.1	1608.2	1620.8
15°	1633.5	1636.6	1614.5	1583.0	1559.3	1534.0	1526.1	1540.3	1564.0	1598.7	1627.1
17.5°	1998.0	2002.8	1979.1	1903.3	1830.7	1726.6	1633.5	1587.7	1562.4	1590.8	1628.7
20°	2509.4	2492.0	2451.0	2370.5	2264.8	2103.8	1958.6	1811.8	1671.3	1628.7	1641.4
22.5°	2870.8	2864.5	2831.3	2741.4	2649.8	2499.9	2315.3	2110.1	1906.5	1777.1	1709.2
25°	2990.7	2986.0	2956.0	2902.4	2851.9	2738.2	2572.5	2365.8	2152.7	1972.8	1802.3
27.5°	3080.7	3074.4	3027.0	2967.1	2915.0	2799.8	2648.3	2492.0	2296.3	2053.3	1791.3
30°	3276.4	3259.0	3192.7	3085.4	2986.0	2826.6	2659.3	2465.2	2200.0	1933.3	1677.7
32.5°	3358.5	3349.0	3292.2	3205.4	3096.5	2888.1	2634.1	2308.9	1960.2	1729.7	1543.5
35°	3341.1	3326.9	3268.5	3169.1	3036.5	2836.1	2496.8	2050.1	1766.0	1605.1	1395.1
37.5°	3289.0	3268.5	3199.1	3082.3	2921.3	2659.3	2215.8	1840.2	1657.1	1475.6	1193.1
40°	3162.8	3129.6	3049.1	2927.6	2766.6	2422.6	1960.2	1714.0	1543.5	1292.6	967.5
42.5°	2679.8	2662.5	2701.9	2681.4	2539.4	2133.8	1778.7	1598.7	1363.6	1044.8	700.7
45°	1764.5	1794.4	1865.5	1987.0	2015.4	1835.5	1630.3	1409.4	1122.1	773.3	404.0
47.5°	1633.5	1627.1	1644.5	1668.2	1672.9	1597.2	1410.9	1164.7	833.3	441.9	112.1
50°	1616.1	1606.6	1592.4	1564.0	1504.0	1357.3	1145.8	849.1	481.4	121.5	7.9
52.5°	1276.8	1267.3	1267.3	1226.3	1148.9	1006.9	790.7	467.2	134.1	7.9	6.3
55°	426.1	454.5	449.8	448.2	482.9	445.1	340.9	119.9	11.0	6.3	6.3
57.5°	7.9	7.9	7.9	14.2	22.1	31.6	18.9	9.5	6.3	6.3	6.3
60°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
62.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
65°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	6.3
67.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
70°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
72.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.7	4.7	4.7
75°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.7
77.5°	1.6	1.6	1.6	1.6	3.2	3.2	3.2	3.2	3.2	3.2	3.2
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	3.2	3.2
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	3.2
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6
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°	1152.1	1152.1	1152.1	1152.1	1152.1	1152.1	1152.1	1152.1
2.5°	1333.6	1311.5	1268.9	1147.4	1013.2	860.1	756.0	743.3
5°	1453.5	1420.4	1351.0	1103.2	797.0	530.3	394.6	344.1
7.5°	1532.5	1488.3	1403.0	1030.6	580.8	279.3	149.9	119.9
10°	1579.8	1538.8	1429.9	921.7	369.3	110.5	50.5	47.3
12.5°	1605.1	1565.6	1439.3	790.7	208.3	50.5	39.5	39.5
15°	1622.4	1579.8	1425.1	639.2	104.2	37.9	36.3	36.3
17.5°	1630.3	1578.2	1384.1	481.4	55.2	34.7	34.7	34.7
20°	1635.0	1560.9	1308.3	328.3	37.9	31.6	33.1	33.1
22.5°	1639.8	1518.3	1208.9	208.3	30.0	30.0	31.6	31.6
25°	1630.3	1444.1	1068.5	126.3	26.8	28.4	30.0	31.6
27.5°	1562.4	1332.0	898.0	77.3	23.7	26.8	30.0	31.6
30°	1445.7	1167.9	700.7	48.9	22.1	26.8	30.0	31.6
32.5°	1294.1	980.1	500.3	30.0	22.1	26.8	30.0	31.6
35°	1090.6	749.7	325.1	20.5	22.1	26.8	31.6	33.1
37.5°	861.7	524.0	175.2	15.8	22.1	26.8	31.6	33.1
40°	620.2	314.1	63.1	14.2	20.5	28.4	33.1	34.7
42.5°	363.0	116.8	11.0	12.6	20.5	28.4	33.1	34.7
45°	104.2	12.6	6.3	12.6	20.5	28.4	34.7	36.3
47.5°	7.9	4.7	6.3	12.6	20.5	28.4	34.7	37.9
50°	4.7	4.7	4.7	12.6	20.5	30.0	36.3	37.9
52.5°	6.3	6.3	6.3	12.6	20.5	30.0	36.3	37.9
55°	6.3	6.3	6.3	12.6	20.5	30.0	36.3	37.9
57.5°	6.3	6.3	6.3	12.6	20.5	28.4	36.3	37.9
60°	6.3	6.3	6.3	11.0	18.9	28.4	34.7	36.3
62.5°	6.3	6.3	6.3	11.0	18.9	26.8	34.7	34.7
65°	6.3	6.3	6.3	9.5	17.4	25.3	31.6	33.1
67.5°	6.3	6.3	6.3	9.5	15.8	23.7	30.0	31.6
70°	4.7	6.3	6.3	7.9	14.2	22.1	28.4	30.0
72.5°	4.7	4.7	6.3	7.9	12.6	18.9	25.3	26.8
75°	4.7	4.7	4.7	6.3	11.0	17.4	22.1	23.7
77.5°	4.7	4.7	4.7	6.3	9.5	14.2	20.5	20.5
80°	3.2	4.7	4.7	4.7	7.9	11.0	15.8	17.4
82.5°	3.2	3.2	3.2	4.7	6.3	9.5	12.6	12.6
85°	3.2	3.2	3.2	3.2	4.7	6.3	7.9	7.9
87.5°	1.6	3.2	3.2	3.2	3.2	3.2	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)