

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: P1319570

Luminaire Tested: LDSQA3D20R509835D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

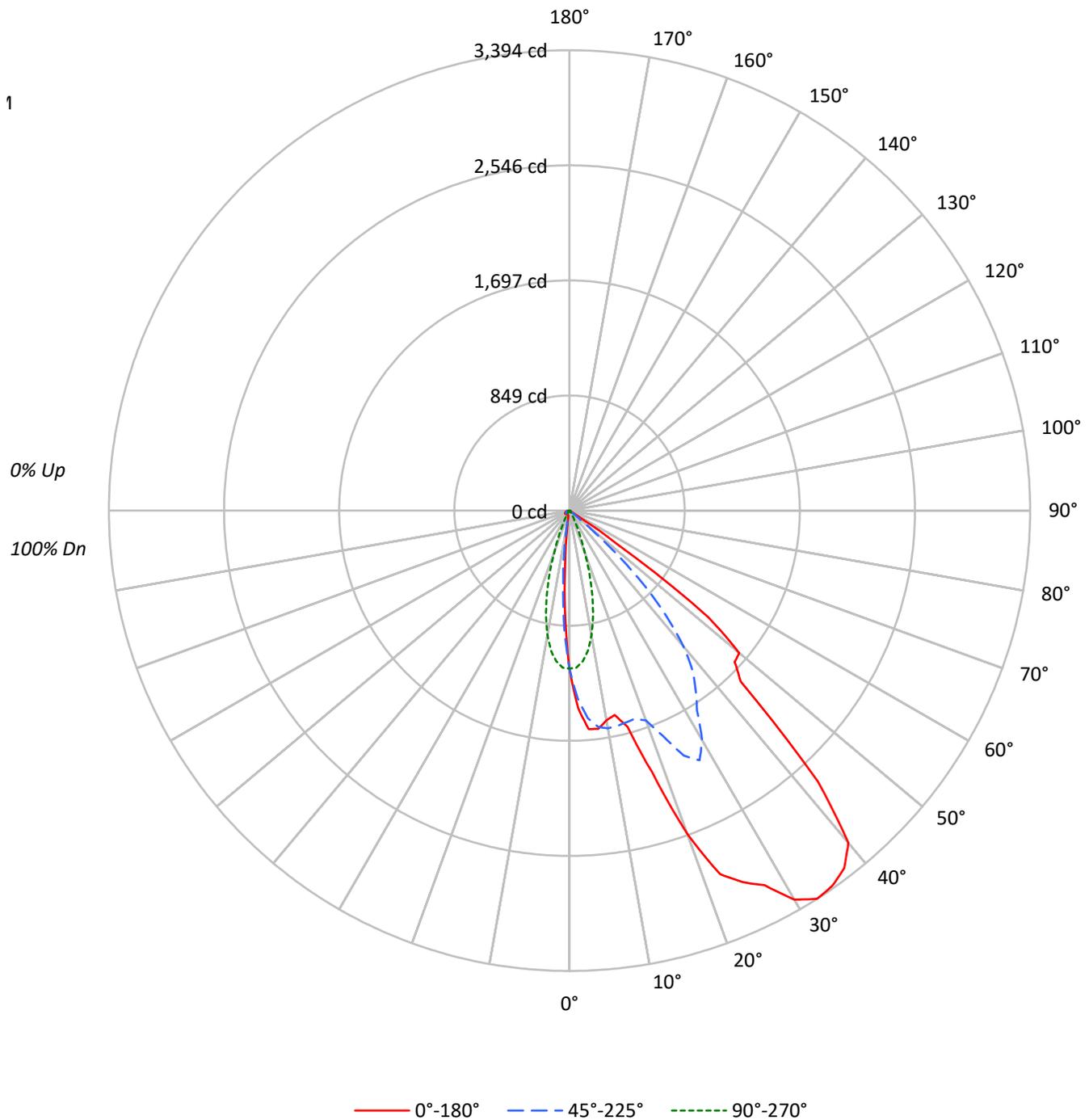
Test Method: LM-79-2019  
Report Number: P1319570  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R509835D010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1811.0 lumens  
Efficiency: N/A  
Efficacy: 66.1 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

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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	93	93	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	83	83	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	74	74	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	67	67	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	60	60	60	58
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	54	54	54	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	49	49	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	49	45	45	45	45	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	41	41	41	39
10	61	50	42	38	60	49	42	38	48	42	38	47	42	37	46	41	37	37	37	37	36

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	200519	200519	200519	200519	200519
5°	279600	265251	192744	92647	60111
10°	274456	285054	162900	19517	8359
15°	294334	288076	115181	6829	6544
20°	464787	301671	60811	5846	6140
25°	574337	378856	24247	5454	6062
30°	658464	388544	9824	5389	6344
35°	709892	341038	4352	5698	7043
40°	718594	293683	3237	6452	7891
45°	434315	190342	3118	6990	8939
50°	437585	32902	3430	8118	10262
55°	129292	1922	3843	9098	11500
60°	2204	2204	3858	9886	12641
65°	1956	1956	3912	10392	13652
70°	2417	2417	4028	11229	15257
75°	2129	2129	4259	11645	15903
80°	1587	3174	4761	11108	17356
85°	3162	6323	6323	12647	15808

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 496082 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.2	5.2
10°-20°	233.8	12.9
20°-30°	438.0	24.2
30°-40°	523.6	28.9
40°-50°	375.3	20.7
50°-60°	115.7	6.4
60°-70°	15.1	0.8
70°-80°	11.0	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°	765.9	42.3
0°-40°	1289.5	71.2
0°-60°	1780.4	98.3
0°-90°	1811.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1811.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1164	1164	1164	1164	1164	
5°	1617	1534	1115	536	348	150
15°	1651	1616	646	38	37	529
25°	3022	1994	128	29	32	1393
35°	3376	1622	21	27	34	2095
45°	1783	782	13	29	37	1638
55°	431	6	13	30	38	554
65°	5	5	10	26	34	5
75°	3	3	6	18	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°	1164.3	1164.3	1164.3	1164.3	1164.3	1164.3	1164.3	1164.3	1164.3	1164.3	1164.3
2.5°	1456.2	1459.4	1464.2	1451.4	1443.4	1437.1	1425.9	1422.7	1395.6	1384.4	1373.3
5°	1617.3	1614.1	1617.3	1612.5	1609.3	1599.7	1590.2	1574.2	1556.7	1534.3	1508.8
7.5°	1622.1	1618.9	1625.3	1625.3	1631.6	1631.6	1631.6	1633.2	1623.7	1607.7	1585.4
10°	1569.4	1569.4	1575.8	1572.6	1583.8	1588.6	1599.7	1618.9	1628.5	1630.0	1623.7
12.5°	1542.3	1542.3	1543.9	1537.5	1540.7	1545.5	1558.3	1580.6	1602.9	1625.3	1638.0
15°	1650.8	1654.0	1631.6	1599.7	1575.8	1550.3	1542.3	1556.7	1580.6	1615.7	1644.4
17.5°	2019.2	2024.0	2000.1	1923.5	1850.2	1744.9	1650.8	1604.5	1579.0	1607.7	1646.0
20°	2536.0	2518.4	2477.0	2395.6	2288.8	2126.1	1979.3	1831.0	1689.1	1646.0	1658.8
22.5°	2901.2	2894.8	2861.4	2770.4	2677.9	2526.4	2339.8	2132.5	1926.7	1795.9	1727.3
25°	3022.4	3017.7	2987.4	2933.1	2882.1	2767.3	2599.8	2390.8	2175.5	1993.7	1821.4
27.5°	3113.4	3107.0	3059.1	2998.5	2945.9	2829.5	2676.3	2518.4	2320.7	2075.0	1810.3
30°	3311.1	3293.6	3226.6	3118.1	3017.7	2856.6	2687.5	2491.3	2223.4	1953.8	1695.4
32.5°	3394.1	3384.5	3327.1	3239.4	3129.3	2918.8	2662.0	2333.4	1980.9	1748.1	1559.9
35°	3376.5	3362.2	3303.2	3202.7	3068.7	2866.1	2523.2	2071.8	1784.8	1622.1	1409.9
37.5°	3323.9	3303.2	3233.0	3115.0	2952.3	2687.5	2239.3	1859.7	1674.7	1491.3	1205.8
40°	3196.3	3162.8	3081.5	2958.6	2796.0	2448.3	1980.9	1732.1	1559.9	1306.3	977.7
42.5°	2708.2	2690.7	2730.6	2709.8	2566.3	2156.4	1797.5	1615.7	1378.0	1055.9	708.2
45°	1783.2	1813.5	1885.2	2008.1	2036.8	1854.9	1647.6	1424.3	1134.0	781.5	408.3
47.5°	1650.8	1644.4	1661.9	1685.9	1690.7	1614.1	1425.9	1177.1	842.1	446.6	113.2
50°	1633.2	1623.7	1609.3	1580.6	1520.0	1371.7	1157.9	858.1	486.5	122.8	8.0
52.5°	1290.3	1280.8	1280.8	1239.3	1161.1	1017.6	799.1	472.1	135.6	8.0	6.4
55°	430.6	459.3	454.6	453.0	488.1	449.8	344.5	121.2	11.2	6.4	6.4
57.5°	8.0	8.0	8.0	14.4	22.3	31.9	19.1	9.6	6.4	6.4	6.4
60°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
62.5°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
65°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	6.4
67.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
70°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
72.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.8	4.8	4.8
75°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.8
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°	1164.3	1164.3	1164.3	1164.3	1164.3	1164.3	1164.3	1164.3
2.5°	1347.7	1325.4	1282.3	1159.5	1024.0	869.3	764.0	751.2
5°	1469.0	1435.5	1365.3	1114.9	805.5	535.9	398.7	347.7
7.5°	1548.7	1504.0	1417.9	1041.5	586.9	282.3	151.5	121.2
10°	1596.6	1555.1	1445.0	931.5	373.2	111.6	51.0	47.8
12.5°	1622.1	1582.2	1454.6	799.1	210.5	51.0	39.9	39.9
15°	1639.6	1596.6	1440.2	646.0	105.3	38.3	36.7	36.7
17.5°	1647.6	1595.0	1398.8	486.5	55.8	35.1	35.1	35.1
20°	1652.4	1577.4	1322.2	331.8	38.3	31.9	33.5	33.5
22.5°	1657.2	1534.3	1221.7	210.5	30.3	30.3	31.9	31.9
25°	1647.6	1459.4	1079.8	127.6	27.1	28.7	30.3	31.9
27.5°	1579.0	1346.1	907.5	78.2	23.9	27.1	30.3	31.9
30°	1461.0	1180.3	708.2	49.4	22.3	27.1	30.3	31.9
32.5°	1307.9	990.5	505.6	30.3	22.3	27.1	30.3	31.9
35°	1102.1	757.6	328.6	20.7	22.3	27.1	31.9	33.5
37.5°	870.8	529.5	177.0	15.9	22.3	27.1	31.9	33.5
40°	626.8	317.4	63.8	14.4	20.7	28.7	33.5	35.1
42.5°	366.8	118.0	11.2	12.8	20.7	28.7	33.5	35.1
45°	105.3	12.8	6.4	12.8	20.7	28.7	35.1	36.7
47.5°	8.0	4.8	6.4	12.8	20.7	28.7	35.1	38.3
50°	4.8	4.8	4.8	12.8	20.7	30.3	36.7	38.3
52.5°	6.4	6.4	6.4	12.8	20.7	30.3	36.7	38.3
55°	6.4	6.4	6.4	12.8	20.7	30.3	36.7	38.3
57.5°	6.4	6.4	6.4	12.8	20.7	28.7	36.7	38.3
60°	6.4	6.4	6.4	11.2	19.1	28.7	35.1	36.7
62.5°	6.4	6.4	6.4	11.2	19.1	27.1	35.1	35.1
65°	6.4	6.4	6.4	9.6	17.5	25.5	31.9	33.5
67.5°	6.4	6.4	6.4	9.6	15.9	23.9	30.3	31.9
70°	4.8	6.4	6.4	8.0	14.4	22.3	28.7	30.3
72.5°	4.8	4.8	6.4	8.0	12.8	19.1	25.5	27.1
75°	4.8	4.8	4.8	6.4	11.2	17.5	22.3	23.9
77.5°	4.8	4.8	4.8	6.4	9.6	14.4	20.7	20.7
80°	3.2	4.8	4.8	4.8	8.0	11.2	15.9	17.5
82.5°	3.2	3.2	3.2	4.8	6.4	9.6	12.8	12.8
85°	3.2	3.2	3.2	3.2	4.8	6.4	8.0	8.0
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)