

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: P1309593

Luminaire Tested: LDSQA3D20R509030D010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

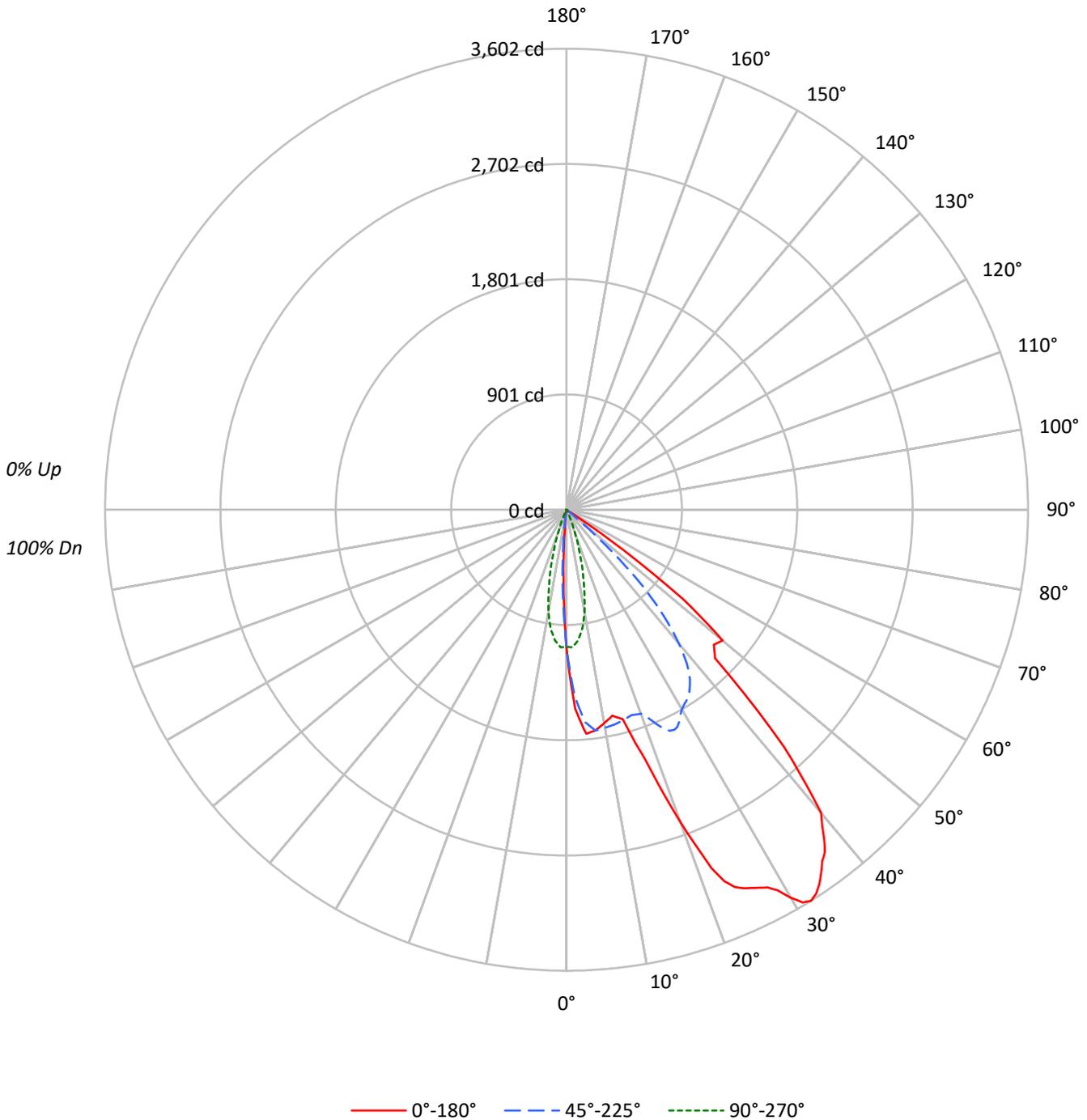
Test Method: LM-79-2019  
Report Number: P1309593  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R509030D010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1724.0 lumens  
Efficiency: N/A  
Efficacy: 59.9 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24  
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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	96	94	93	91
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82	86	84	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74	78	75	74
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66	71	68	66
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59	61	59	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54	55	55	54
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48	50	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44	46	46	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40	42	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37	38	38	37

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

	0°	45°	90°	135°	180°
0°	184347	184347	184347	184347	184347
5°	303734	288244	177151	52625	26312
10°	296018	302524	141950	2658	3550
15°	301805	303606	85030	2710	909
20°	475728	310854	35024	0	0
25°	620171	362153	8361	0	0
30°	696109	358137	338	0	0
35°	728478	352686	0	0	0
40°	694943	306408	0	0	0
45°	399097	202228	0	0	0
50°	425876	23096	0	0	0
55°	121335	0	0	0	0
60°	0	0	586	0	0
65°	0	693	693	0	0
70°	0	856	856	0	0
75°	0	1131	1131	0	0
80°	0	1686	3372	1686	0
85°	0	3359	6719	3359	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 45°  
 Luminance: 440697 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.9	5.2
10°-20°	226.5	13.1
20°-30°	435.1	25.2
30°-40°	506.4	29.4
40°-50°	362.4	21.0
50°-60°	100.9	5.9
60°-70°	0.7	0.0
70°-80°	1.0	0.1
80°-90°	1.2	0.1
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°	751.4	43.6
0°-40°	1257.8	73.0
0°-60°	1721.0	99.8
0°-90°	1724.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1724.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1070	1070	1070	1070	1070	
5°	1757	1667	1025	304	152	161
15°	1693	1703	477	15	5	546
25°	3264	1906	44	0	0	1484
35°	3465	1678	0	0	0	2144
45°	1639	830	0	0	0	1541
55°	404	0	0	0	0	509
65°	0	2	2	0	0	0
75°	0	2	2	0	0	0
85°	0	2	3	2	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	1070.4	1070.4	1070.4	1070.4	1070.4	1070.4	1070.4	1070.4	1070.4	1070.4	1070.4
2.5°	1555.7	1564.2	1565.9	1545.6	1549.0	1520.2	1521.9	1501.6	1452.6	1281.8	1075.5
5°	1756.9	1751.9	1756.9	1750.2	1756.9	1740.0	1729.9	1721.4	1667.3	1425.5	1024.7
7.5°	1738.3	1731.6	1741.7	1745.1	1756.9	1751.9	1753.6	1758.6	1740.0	1503.3	938.5
10°	1692.7	1691.0	1696.1	1696.1	1709.6	1711.3	1718.1	1728.2	1729.9	1530.4	811.7
12.5°	1648.7	1643.6	1643.6	1642.0	1648.7	1647.0	1663.9	1687.6	1719.7	1513.4	637.5
15°	1692.7	1687.6	1680.9	1662.2	1648.7	1633.5	1635.2	1650.4	1702.8	1469.5	476.9
17.5°	2047.8	2020.7	1986.9	1927.7	1865.2	1756.9	1692.7	1652.1	1682.5	1401.8	317.9
20°	2595.7	2583.8	2529.7	2433.3	2331.9	2172.9	1975.1	1816.1	1696.1	1317.3	191.1
21°	2803.7	2796.9	2739.4	2649.8	2534.8	2342.0	2139.1	1948.0	1723.1	1281.8	150.5
22°	3016.7	2991.4	2945.7	2845.9	2725.9	2533.1	2306.5	2095.1	1777.2	1236.1	115.0
23°	3153.7	3138.5	3089.5	3010.0	2895.0	2707.3	2475.6	2245.6	1829.7	1185.4	86.2
24°	3224.7	3219.7	3180.8	3125.0	3026.9	2835.8	2616.0	2379.2	1873.6	1126.2	62.6
25°	3263.6	3246.7	3223.0	3182.5	3108.1	2942.3	2746.2	2495.9	1905.8	1067.0	44.0
26°	3287.3	3277.2	3239.9	3204.4	3133.4	2998.1	2830.7	2566.9	1914.2	994.3	30.4
27°	3314.4	3290.7	3255.2	3212.9	3133.4	3015.0	2862.9	2597.4	1904.1	919.9	20.3
28°	3343.1	3326.2	3277.2	3223.0	3128.3	3015.0	2851.0	2556.8	1873.6	848.9	11.8
29°	3398.9	3376.9	3316.0	3236.6	3130.0	3011.7	2805.4	2472.2	1833.0	769.4	6.8
30°	3500.4	3454.7	3380.3	3268.7	3141.9	3004.9	2729.3	2345.4	1800.9	679.8	1.7
31°	3579.8	3554.5	3468.2	3327.9	3175.7	2986.3	2639.6	2220.3	1778.9	602.0	0.0
32°	3601.8	3583.2	3520.7	3388.8	3233.2	2971.1	2538.2	2098.5	1762.0	515.8	0.0
33°	3576.5	3564.6	3498.7	3378.6	3248.4	2950.8	2421.5	1978.5	1743.4	438.0	0.0
34°	3529.1	3513.9	3456.4	3334.6	3209.5	2862.9	2309.9	1887.2	1716.4	365.3	0.0
35°	3464.9	3453.0	3393.8	3273.8	3138.5	2725.9	2198.3	1826.3	1677.5	292.5	0.0
36°	3395.5	3392.1	3316.0	3197.7	3047.2	2594.0	2063.0	1780.6	1638.6	231.7	0.0
37°	3349.9	3333.0	3250.1	3133.4	2939.0	2440.1	1954.8	1765.4	1584.5	179.2	0.0
38°	3267.0	3270.4	3175.7	3069.2	2829.0	2306.5	1866.9	1753.6	1523.6	130.2	0.0
39°	3168.9	3170.6	3072.5	2981.2	2698.8	2166.2	1794.1	1741.7	1447.5	82.9	0.0
40°	3091.1	3089.5	2977.8	2879.8	2558.5	2034.3	1755.3	1724.8	1362.9	47.3	0.0
42.5°	2512.8	2523.0	2536.5	2577.1	2228.7	1802.6	1718.1	1630.1	1122.8	0.0	0.0
45°	1638.6	1677.5	1687.6	1809.4	1807.7	1707.9	1630.1	1461.0	830.3	0.0	0.0
47.5°	1559.1	1570.9	1592.9	1640.3	1665.6	1616.6	1457.6	1220.9	453.2	0.0	0.0
50°	1589.5	1587.8	1592.9	1592.9	1547.3	1420.4	1195.5	901.3	86.2	0.0	0.0
52.5°	1141.4	1183.7	1229.4	1249.6	1190.5	1056.9	872.6	529.3	0.0	0.0	0.0
55°	404.1	390.6	380.5	416.0	407.5	458.3	378.8	123.4	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.7	6.8	15.2	20.3	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	3.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	3.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	3.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	3.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	3.4
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):**

	112.5°	135°	157.5°	180°
0°	1070.4	1070.4	1070.4	1070.4
2.5°	857.3	657.8	532.7	541.1
5°	602.0	304.4	187.7	152.2
7.5°	360.2	93.0	18.6	15.2
10°	169.1	15.2	16.9	20.3
12.5°	50.7	13.5	18.6	16.9
15°	13.5	15.2	8.5	5.1
17.5°	5.1	6.8	0.0	0.0
20°	3.4	0.0	0.0	0.0
21°	3.4	0.0	0.0	0.0
22°	1.7	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	1.7	0.0	0.0	0.0
67.5°	1.7	0.0	0.0	0.0
70°	1.7	0.0	0.0	0.0
72.5°	1.7	0.0	0.0	0.0
75°	1.7	0.0	0.0	0.0
77.5°	1.7	0.0	0.0	0.0
80°	1.7	1.7	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	112.5°	135°	157.5°	180°
82.5°	1.7	1.7	0.0	0.0
85°	1.7	1.7	0.0	0.0
87.5°	1.7	1.7	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)