

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: P1307503

Luminaire Tested: LDSQA3D20R509024D010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

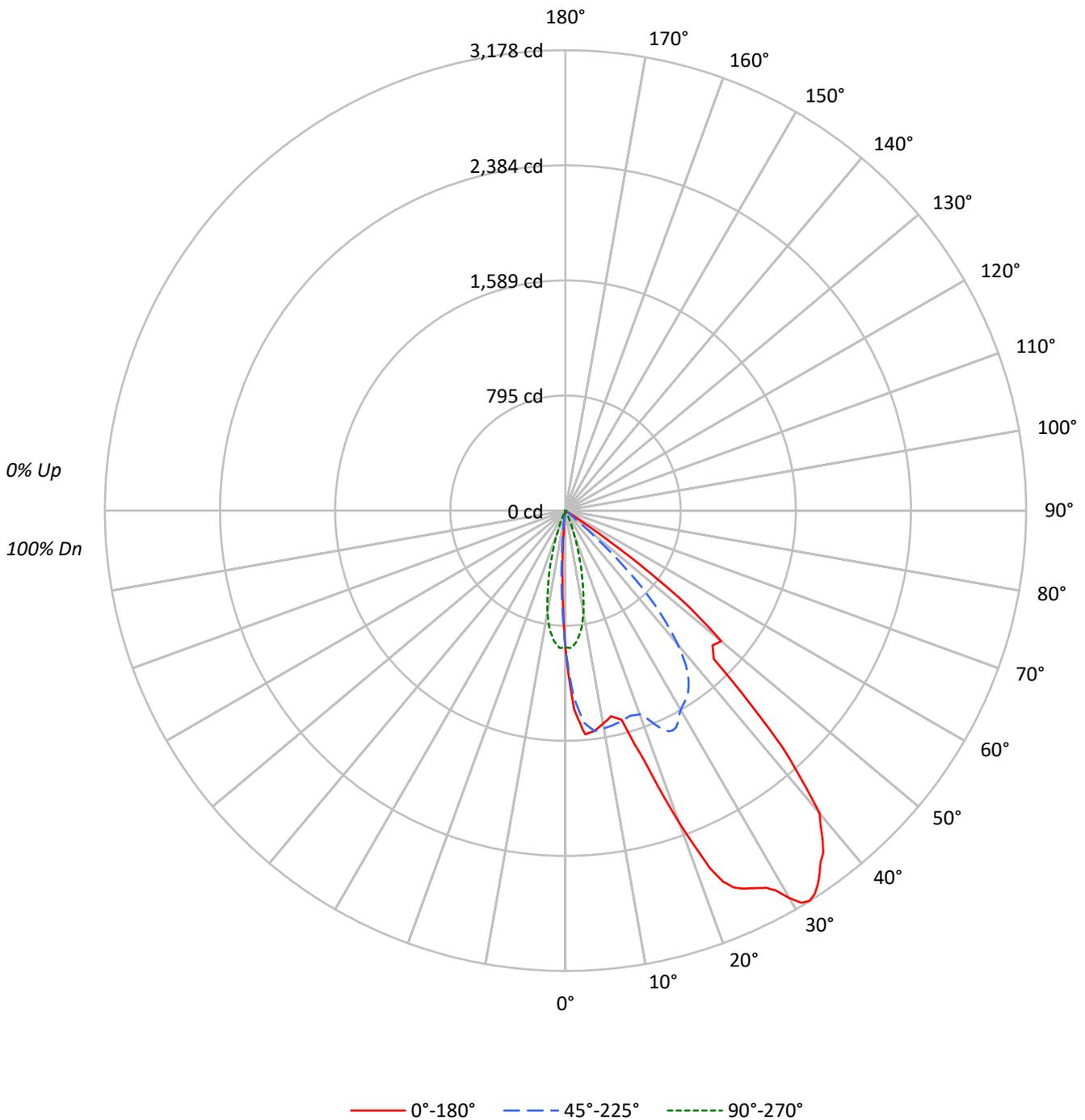
Test Method: LM-79-2019  
Report Number: P1307503  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R509024D010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R50 optic, 2400K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1521.0 lumens  
Efficiency: N/A  
Efficacy: 52.8 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	72	69	66
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59	66	62	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54	60	56	54
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48	55	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44	51	46	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40	49	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37	44	38	37

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

	0°	45°	90°	135°	180°
0°	162647	162647	162647	162647	162647
5°	267982	254307	156301	46418	23218
10°	261165	266901	125231	2343	3130
15°	266270	267857	75010	2389	802
20°	419701	274253	30900	0	0
25°	547144	319511	7373	0	0
30°	614137	315978	298	0	0
35°	642698	311142	0	0	0
40°	613131	270347	0	0	0
45°	352090	178407	0	0	0
50°	375746	20390	0	0	0
55°	107073	0	0	0	0
60°	0	0	517	0	0
65°	0	611	611	0	0
70°	0	755	755	0	0
75°	0	998	998	0	0
80°	0	1488	2975	1488	0
85°	0	2964	5928	2964	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 45°  
 Luminance: 388794 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.3	5.2
10°-20°	199.8	13.1
20°-30°	383.8	25.2
30°-40°	446.7	29.4
40°-50°	319.7	21.0
50°-60°	89.0	5.9
60°-70°	0.6	0.0
70°-80°	0.9	0.1
80°-90°	1.1	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°	662.9	43.6
0°-40°	1109.7	73.0
0°-60°	1518.4	99.8
0°-90°	1521.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1521.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	944	944	944	944	944	
5°	1550	1471	904	268	134	142
15°	1493	1502	421	13	4	482
25°	2879	1681	39	0	0	1310
35°	3057	1480	0	0	0	1891
45°	1446	732	0	0	0	1360
55°	357	0	0	0	0	449
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°	944.4	944.4	944.4	944.4	944.4	944.4	944.4	944.4	944.4	944.4	944.4
2.5°	1372.5	1380.0	1381.5	1363.6	1366.6	1341.2	1342.7	1324.8	1281.5	1130.8	948.8
5°	1550.1	1545.6	1550.1	1544.1	1550.1	1535.1	1526.2	1518.7	1471.0	1257.7	904.1
7.5°	1533.7	1527.7	1536.6	1539.6	1550.1	1545.6	1547.1	1551.6	1535.1	1326.3	828.0
10°	1493.4	1491.9	1496.4	1496.4	1508.3	1509.8	1515.8	1524.7	1526.2	1350.2	716.1
12.5°	1454.6	1450.1	1450.1	1448.6	1454.6	1453.1	1468.0	1488.9	1517.2	1335.2	562.4
15°	1493.4	1488.9	1482.9	1466.5	1454.6	1441.2	1442.7	1456.1	1502.3	1296.4	420.7
17.5°	1806.7	1782.8	1753.0	1700.7	1645.5	1550.1	1493.4	1457.6	1484.4	1236.8	280.5
20°	2290.0	2279.6	2231.9	2146.8	2057.3	1917.1	1742.5	1602.3	1496.4	1162.2	168.6
21°	2473.5	2467.6	2416.8	2337.8	2236.3	2066.3	1887.2	1718.6	1520.2	1130.8	132.8
22°	2661.5	2639.1	2598.9	2510.8	2404.9	2234.8	2034.9	1848.4	1568.0	1090.6	101.4
23°	2782.4	2768.9	2725.7	2655.6	2554.1	2388.5	2184.1	1981.2	1614.2	1045.8	76.1
24°	2845.0	2840.5	2806.2	2757.0	2670.5	2501.9	2307.9	2099.1	1653.0	993.6	55.2
25°	2879.3	2864.4	2843.5	2807.7	2742.1	2595.9	2422.8	2202.0	1681.4	941.4	38.8
26°	2900.2	2891.3	2858.4	2827.1	2764.5	2645.1	2497.4	2264.7	1688.8	877.2	26.9
27°	2924.1	2903.2	2871.9	2834.6	2764.5	2660.0	2525.8	2291.5	1679.9	811.6	17.9
28°	2949.5	2934.5	2891.3	2843.5	2760.0	2660.0	2515.3	2255.7	1653.0	748.9	10.4
29°	2998.7	2979.3	2925.6	2855.5	2761.5	2657.0	2475.0	2181.1	1617.2	678.8	6.0
30°	3088.2	3047.9	2982.3	2883.8	2771.9	2651.1	2407.9	2069.2	1588.9	599.7	1.5
31°	3158.3	3135.9	3059.9	2936.0	2801.8	2634.7	2328.8	1958.8	1569.5	531.1	0.0
32°	3177.7	3161.3	3106.1	2989.7	2852.5	2621.2	2239.3	1851.4	1554.5	455.0	0.0
33°	3155.3	3144.9	3086.7	2980.8	2865.9	2603.3	2136.4	1745.5	1538.1	386.4	0.0
34°	3113.6	3100.1	3049.4	2942.0	2831.6	2525.8	2037.9	1664.9	1514.3	322.2	0.0
35°	3056.9	3046.4	2994.2	2888.3	2768.9	2404.9	1939.4	1611.2	1479.9	258.1	0.0
36°	2995.7	2992.7	2925.6	2821.1	2688.4	2288.5	1820.1	1571.0	1445.6	204.4	0.0
37°	2955.4	2940.5	2867.4	2764.5	2592.9	2152.8	1724.6	1557.5	1397.9	158.1	0.0
38°	2882.3	2885.3	2801.8	2707.8	2495.9	2034.9	1647.0	1547.1	1344.2	114.9	0.0
39°	2795.8	2797.3	2710.8	2630.2	2381.0	1911.1	1582.9	1536.6	1277.1	73.1	0.0
40°	2727.2	2725.7	2627.2	2540.7	2257.2	1794.7	1548.6	1521.7	1202.5	41.8	0.0
42.5°	2216.9	2225.9	2237.8	2273.6	1966.3	1590.3	1515.8	1438.2	990.6	0.0	0.0
45°	1445.6	1479.9	1488.9	1596.3	1594.8	1506.8	1438.2	1289.0	732.5	0.0	0.0
47.5°	1375.5	1386.0	1405.4	1447.1	1469.5	1426.2	1286.0	1077.1	399.8	0.0	0.0
50°	1402.4	1400.9	1405.4	1405.4	1365.1	1253.2	1054.8	795.2	76.1	0.0	0.0
52.5°	1007.0	1044.3	1084.6	1102.5	1050.3	932.4	769.8	467.0	0.0	0.0	0.0
55°	356.6	344.6	335.7	367.0	359.5	404.3	334.2	108.9	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.5	6.0	13.4	17.9	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	1.5	1.5
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	3.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	3.0



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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	1.5	1.5	1.5	3.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	3.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	3.0
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°	944.4	944.4	944.4	944.4
2.5°	756.4	580.3	469.9	477.4
5°	531.1	268.5	165.6	134.3
7.5°	317.8	82.1	16.4	13.4
10°	149.2	13.4	14.9	17.9
12.5°	44.8	11.9	16.4	14.9
15°	11.9	13.4	7.5	4.5
17.5°	4.5	6.0	0.0	0.0
20°	3.0	0.0	0.0	0.0
21°	3.0	0.0	0.0	0.0
22°	1.5	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°	1.5	0.0	0.0	0.0
67.5°	1.5	0.0	0.0	0.0
70°	1.5	0.0	0.0	0.0
72.5°	1.5	0.0	0.0	0.0
75°	1.5	0.0	0.0	0.0
77.5°	1.5	0.0	0.0	0.0
80°	1.5	1.5	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	112.5°	135°	157.5°	180°
82.5°	1.5	1.5	0.0	0.0
85°	1.5	1.5	0.0	0.0
87.5°	1.5	1.5	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)