

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: P1311829

Luminaire Tested: LDSQA3D20R509040D010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

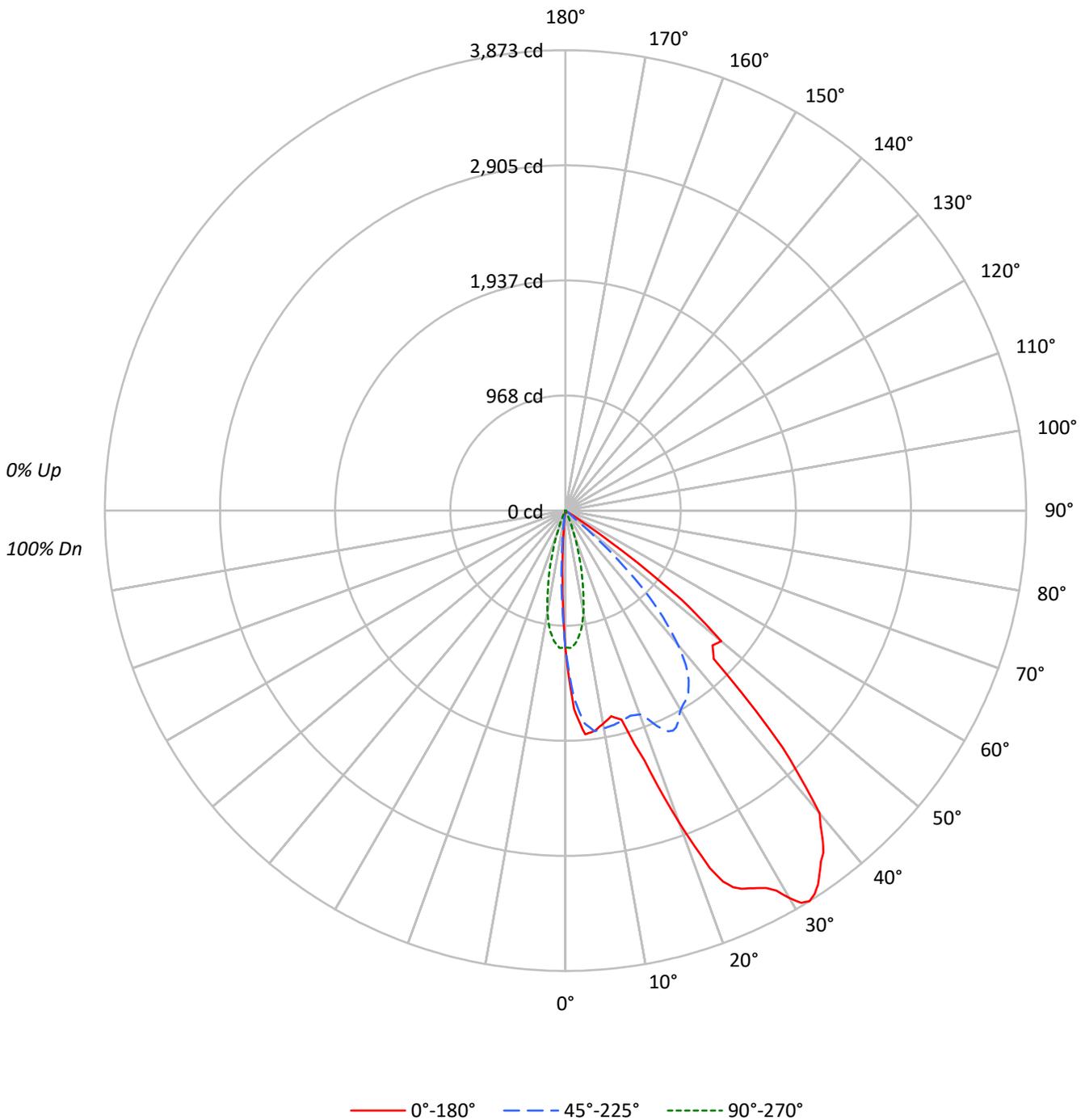
Test Method: LM-79-2019  
Report Number: P1311829  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R509040D010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1854.0 lumens  
Efficiency: N/A  
Efficacy: 64.4 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 (A<sub>in</sub>): 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	77	78	75	74
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	72	71	68	66
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	66	65	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	60	59	55	54
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	55	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	50	49	46	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	46	45	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	42	42	38	37

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

	0°	45°	90°	135°	180°
0°	198245	198245	198245	198245	198245
5°	326640	309975	190514	56584	28301
10°	318333	325328	152652	2868	3812
15°	324556	326499	91431	2924	981
20°	511595	334295	37663	0	0
25°	666937	389460	8988	0	0
30°	748590	385143	358	0	0
35°	783394	379282	0	0	0
40°	747349	329520	0	0	0
45°	429176	217474	0	0	0
50°	458001	24837	0	0	0
55°	130493	0	0	0	0
60°	0	0	620	0	0
65°	0	734	734	0	0
70°	0	906	906	0	0
75°	0	1198	1198	0	0
80°	0	1785	3570	1785	0
85°	0	3557	7114	3557	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 45°  
 Luminance: 473918 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.7	5.2
10°-20°	243.5	13.1
20°-30°	467.9	25.2
30°-40°	544.5	29.4
40°-50°	389.7	21.0
50°-60°	108.5	5.9
60°-70°	0.7	0.0
70°-80°	1.1	0.1
80°-90°	1.3	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°	808.1	43.6
0°-40°	1352.6	73.0
0°-60°	1850.8	99.8
0°-90°	1854.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1854.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1151	1151	1151	1151	1151	
5°	1889	1793	1102	327	164	173
15°	1820	1831	513	16	6	587
25°	3510	2050	47	0	0	1596
35°	3726	1804	0	0	0	2305
45°	1762	893	0	0	0	1657
55°	435	0	0	0	0	547
65°	0	2	2	0	0	0
75°	0	2	2	0	0	0
85°	0	2	4	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°	1151.1	1151.1	1151.1	1151.1	1151.1	1151.1	1151.1	1151.1	1151.1	1151.1	1151.1
2.5°	1673.0	1682.1	1683.9	1662.1	1665.8	1634.8	1636.7	1614.8	1562.1	1378.4	1156.6
5°	1889.4	1884.0	1889.4	1882.2	1889.4	1871.2	1860.3	1851.2	1793.0	1533.0	1102.0
7.5°	1869.4	1862.2	1873.1	1876.7	1889.4	1884.0	1885.8	1891.2	1871.2	1616.7	1009.3
10°	1820.3	1818.5	1824.0	1824.0	1838.5	1840.3	1847.6	1858.5	1860.3	1645.7	872.9
12.5°	1773.0	1767.6	1767.6	1765.8	1773.0	1771.2	1789.4	1814.9	1849.4	1627.6	685.6
15°	1820.3	1814.9	1807.6	1787.6	1773.0	1756.7	1758.5	1774.9	1831.2	1580.3	512.8
17.5°	2202.2	2173.1	2136.7	2073.1	2005.8	1889.4	1820.3	1776.7	1809.4	1507.5	341.9
20°	2791.4	2778.7	2720.5	2616.8	2507.7	2336.8	2124.0	1953.1	1824.0	1416.6	205.5
21°	3015.1	3007.8	2946.0	2849.6	2725.9	2518.6	2300.4	2094.9	1853.1	1378.4	161.8
22°	3244.2	3216.9	3167.8	3060.5	2931.4	2724.1	2480.4	2253.1	1911.3	1329.3	123.7
23°	3391.5	3375.2	3322.4	3236.9	3113.3	2911.4	2662.3	2415.0	1967.6	1274.8	92.7
24°	3467.9	3462.4	3420.6	3360.6	3255.1	3049.6	2813.2	2558.6	2014.9	1211.1	67.3
25°	3509.7	3491.5	3466.1	3422.4	3342.4	3164.2	2953.3	2684.1	2049.5	1147.5	47.3
26°	3535.2	3524.3	3484.3	3446.1	3369.7	3224.2	3044.2	2760.5	2058.6	1069.3	32.7
27°	3564.3	3538.8	3500.6	3455.2	3369.7	3242.4	3078.7	2793.2	2047.6	989.3	21.8
28°	3595.2	3577.0	3524.3	3466.1	3364.2	3242.4	3066.0	2749.6	2014.9	912.9	12.7
29°	3655.2	3631.6	3566.1	3480.6	3366.1	3238.8	3016.9	2658.7	1971.3	827.4	7.3
30°	3764.3	3715.2	3635.2	3515.2	3378.8	3231.5	2935.1	2522.3	1936.7	731.0	1.8
31°	3849.8	3822.5	3729.8	3578.8	3415.2	3211.5	2838.7	2387.7	1913.1	647.4	0.0
32°	3873.4	3853.4	3786.1	3644.3	3477.0	3195.1	2729.6	2256.8	1894.9	554.6	0.0
33°	3846.1	3833.4	3762.5	3633.4	3493.4	3173.3	2604.1	2127.7	1874.9	471.0	0.0
34°	3795.2	3778.9	3717.0	3586.1	3451.5	3078.7	2484.1	2029.5	1845.8	392.8	0.0
35°	3726.1	3713.4	3649.7	3520.6	3375.2	2931.4	2364.1	1964.0	1804.0	314.6	0.0
36°	3651.6	3647.9	3566.1	3438.8	3277.0	2789.6	2218.6	1914.9	1762.1	249.1	0.0
37°	3602.5	3584.3	3495.2	3369.7	3160.6	2624.1	2102.2	1898.5	1703.9	192.8	0.0
38°	3513.4	3517.0	3415.2	3300.6	3042.4	2480.4	2007.6	1885.8	1638.5	140.0	0.0
39°	3407.9	3409.7	3304.2	3206.0	2902.3	2329.5	1929.4	1873.1	1556.6	89.1	0.0
40°	3324.2	3322.4	3202.4	3096.9	2751.4	2187.7	1887.6	1854.9	1465.7	50.9	0.0
42.5°	2702.3	2713.2	2727.8	2771.4	2396.8	1938.5	1847.6	1753.0	1207.5	0.0	0.0
45°	1762.1	1804.0	1814.9	1945.8	1944.0	1836.7	1753.0	1571.2	892.9	0.0	0.0
47.5°	1676.7	1689.4	1713.0	1764.0	1791.2	1738.5	1567.6	1313.0	487.4	0.0	0.0
50°	1709.4	1707.6	1713.0	1713.0	1663.9	1527.5	1285.7	969.3	92.7	0.0	0.0
52.5°	1227.5	1273.0	1322.1	1343.9	1280.2	1136.6	938.3	569.2	0.0	0.0	0.0
55°	434.6	420.1	409.2	447.4	438.3	492.8	407.3	132.8	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.8	7.3	16.4	21.8	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	1.8	1.8
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	3.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	3.6



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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	1.8	1.8	1.8	3.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	3.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	3.6
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):**

	112.5°	135°	157.5°	180°
0°	1151.1	1151.1	1151.1	1151.1
2.5°	922.0	707.4	572.8	581.9
5°	647.4	327.3	201.9	163.7
7.5°	387.3	100.0	20.0	16.4
10°	181.9	16.4	18.2	21.8
12.5°	54.6	14.5	20.0	18.2
15°	14.5	16.4	9.1	5.5
17.5°	5.5	7.3	0.0	0.0
20°	3.6	0.0	0.0	0.0
21°	3.6	0.0	0.0	0.0
22°	1.8	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°	1.8	0.0	0.0	0.0
67.5°	1.8	0.0	0.0	0.0
70°	1.8	0.0	0.0	0.0
72.5°	1.8	0.0	0.0	0.0
75°	1.8	0.0	0.0	0.0
77.5°	1.8	0.0	0.0	0.0
80°	1.8	1.8	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	112.5°	135°	157.5°	180°
82.5°	1.8	1.8	0.0	0.0
85°	1.8	1.8	0.0	0.0
87.5°	1.8	1.8	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)