

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: P1310712

Luminaire Tested: LDSQA3D20R509035D010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310712
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: LDSQA3D20R509035D010 3LSQCA30R 1MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MMS TRII
Light Source: -
Ballast/Driver: -

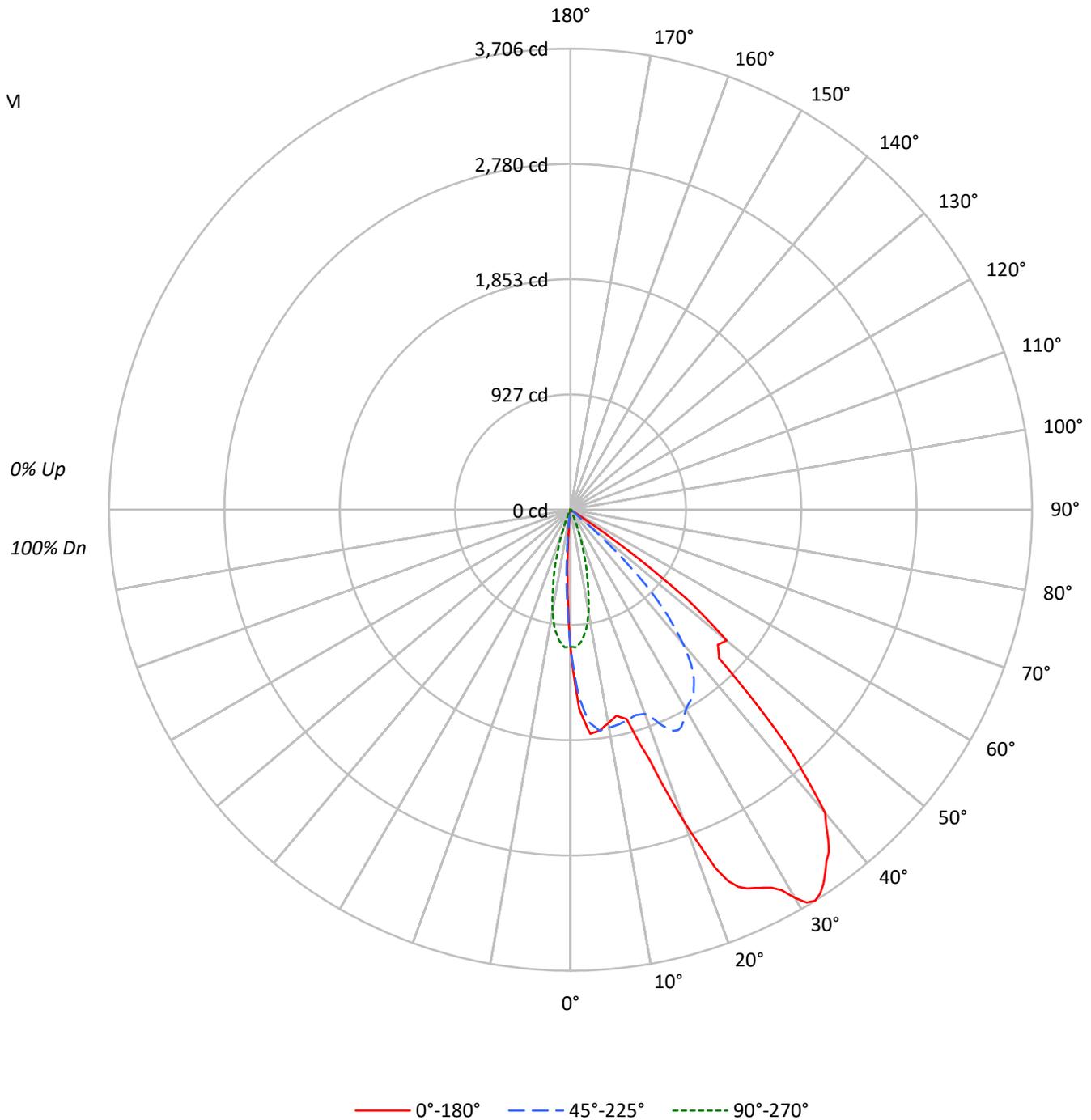
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1773.9 lumens
Efficiency: N/A
Efficacy: 61.6 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_{in}): 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	89	86	84	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	82	78	75	74
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	75	71	68	66
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	69	65	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	64	59	55	54
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	55	49	46	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	189686	189686	189686	189686	189686
5°	312551	296611	182302	54146	27073
10°	304605	311303	146059	2746	3655
15°	310559	312414	87491	2799	927
20°	489529	319871	36032	0	0
25°	638167	372642	8589	0	0
30°	716294	368518	338	0	0
35°	749587	362904	0	0	0
40°	715110	315311	0	0	0
45°	410666	208097	0	0	0
50°	438228	23765	0	0	0
55°	124879	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	3471	1686	0
85°	0	3359	6916	3359	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 453459 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.5	5.2
10°-20°	233.0	13.1
20°-30°	447.7	25.2
30°-40°	521.1	29.4
40°-50°	372.9	21.0
50°-60°	103.8	5.9
60°-70°	0.7	0.0
70°-80°	1.0	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°	773.2	43.6
0°-40°	1294.3	73.0
0°-60°	1771.0	99.8
0°-90°	1773.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1773.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1101	1101	1101	1101	1101	
5°	1808	1716	1054	313	157	166
15°	1742	1752	491	16	5	562
25°	3358	1961	45	0	0	1528
35°	3565	1726	0	0	0	2206
45°	1686	854	0	0	0	1586
55°	416	0	0	0	0	524
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°	1101.4	1101.4	1101.4	1101.4	1101.4	1101.4	1101.4	1101.4	1101.4	1101.4	1101.4
2.5°	1600.8	1609.5	1611.3	1590.4	1593.9	1564.3	1566.0	1545.2	1494.7	1318.9	1106.7
5°	1807.9	1802.7	1807.9	1800.9	1807.9	1790.5	1780.1	1771.4	1715.7	1466.9	1054.5
7.5°	1788.8	1781.8	1792.2	1795.7	1807.9	1802.7	1804.4	1809.6	1790.5	1546.9	965.7
10°	1741.8	1740.0	1745.3	1745.3	1759.2	1760.9	1767.9	1778.3	1780.1	1574.7	835.2
12.5°	1696.5	1691.3	1691.3	1689.6	1696.5	1694.8	1712.2	1736.6	1769.6	1557.3	656.0
15°	1741.8	1736.6	1729.6	1710.5	1696.5	1680.9	1682.6	1698.3	1752.2	1512.1	490.7
17.5°	2107.2	2079.3	2044.5	1983.6	1919.3	1807.9	1741.8	1700.0	1731.3	1442.5	327.1
20°	2671.0	2658.8	2603.1	2503.9	2399.5	2236.0	2032.4	1868.8	1745.3	1355.5	196.6
21°	2885.0	2878.0	2818.9	2726.6	2608.3	2410.0	2201.1	2004.5	1773.1	1318.9	154.9
22°	3104.2	3078.1	3031.1	2928.5	2804.9	2606.6	2373.4	2155.9	1828.8	1272.0	118.3
23°	3245.2	3229.5	3179.1	3097.3	2978.9	2785.8	2547.4	2310.8	1882.7	1219.8	88.7
24°	3318.3	3313.0	3273.0	3215.6	3114.7	2918.0	2691.8	2448.2	1928.0	1158.9	64.4
25°	3358.3	3340.9	3316.5	3274.8	3198.2	3027.7	2825.8	2568.3	1961.0	1098.0	45.2
26°	3382.6	3372.2	3333.9	3297.4	3224.3	3085.1	2912.8	2641.4	1969.7	1023.1	31.3
27°	3410.5	3386.1	3349.6	3306.1	3224.3	3102.5	2945.9	2672.7	1959.3	946.6	20.9
28°	3440.1	3422.7	3372.2	3316.5	3219.1	3102.5	2933.7	2630.9	1928.0	873.5	12.2
29°	3497.5	3474.9	3412.2	3330.4	3220.8	3099.0	2886.7	2543.9	1886.2	791.7	7.0
30°	3601.9	3554.9	3478.3	3363.5	3233.0	3092.0	2808.4	2413.4	1853.1	699.5	1.7
31°	3683.7	3657.6	3568.8	3424.4	3267.8	3072.9	2716.2	2284.7	1830.5	619.5	0.0
32°	3706.3	3687.1	3622.8	3487.0	3327.0	3057.2	2611.8	2159.4	1813.1	530.7	0.0
33°	3680.2	3668.0	3600.1	3476.6	3342.6	3036.4	2491.7	2035.8	1794.0	450.7	0.0
34°	3631.5	3615.8	3556.6	3431.4	3302.6	2945.9	2376.9	1941.9	1766.1	375.8	0.0
35°	3565.3	3553.2	3492.3	3368.7	3229.5	2804.9	2262.1	1879.2	1726.1	301.0	0.0
36°	3494.0	3490.5	3412.2	3290.4	3135.6	2669.2	2122.8	1832.3	1686.1	238.4	0.0
37°	3447.0	3429.6	3344.4	3224.3	3024.2	2510.9	2011.5	1816.6	1630.4	184.4	0.0
38°	3361.8	3365.2	3267.8	3158.2	2911.1	2373.4	1921.0	1804.4	1567.8	134.0	0.0
39°	3260.8	3262.6	3161.7	3067.7	2777.1	2229.0	1846.2	1792.2	1489.5	85.3	0.0
40°	3180.8	3179.1	3064.2	2963.3	2632.7	2093.3	1806.2	1774.8	1402.5	48.7	0.0
42.5°	2585.7	2596.1	2610.1	2651.8	2293.4	1854.9	1767.9	1677.4	1155.4	0.0	0.0
45°	1686.1	1726.1	1736.6	1861.8	1860.1	1757.4	1677.4	1503.4	854.4	0.0	0.0
47.5°	1604.3	1616.5	1639.1	1687.8	1713.9	1663.5	1499.9	1256.3	466.3	0.0	0.0
50°	1635.6	1633.9	1639.1	1639.1	1592.1	1461.6	1230.2	927.4	88.7	0.0	0.0
52.5°	1174.5	1218.0	1265.0	1285.9	1225.0	1087.5	897.9	544.6	0.0	0.0	0.0
55°	415.9	401.9	391.5	428.0	419.3	471.6	389.8	127.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.7	7.0	15.7	20.9	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	1.7	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	3.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	3.5



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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	3.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	3.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	3.5
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°	1101.4	1101.4	1101.4	1101.4
2.5°	882.2	676.9	548.1	556.8
5°	619.5	313.2	193.1	156.6
7.5°	370.6	95.7	19.1	15.7
10°	174.0	15.7	17.4	20.9
12.5°	52.2	13.9	19.1	17.4
15°	13.9	15.7	8.7	5.2
17.5°	5.2	7.0	0.0	0.0
20°	3.5	0.0	0.0	0.0
21°	3.5	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)