

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: P1318172

Luminaire Tested: LDSQA3D09R209830DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1318172  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R209830DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

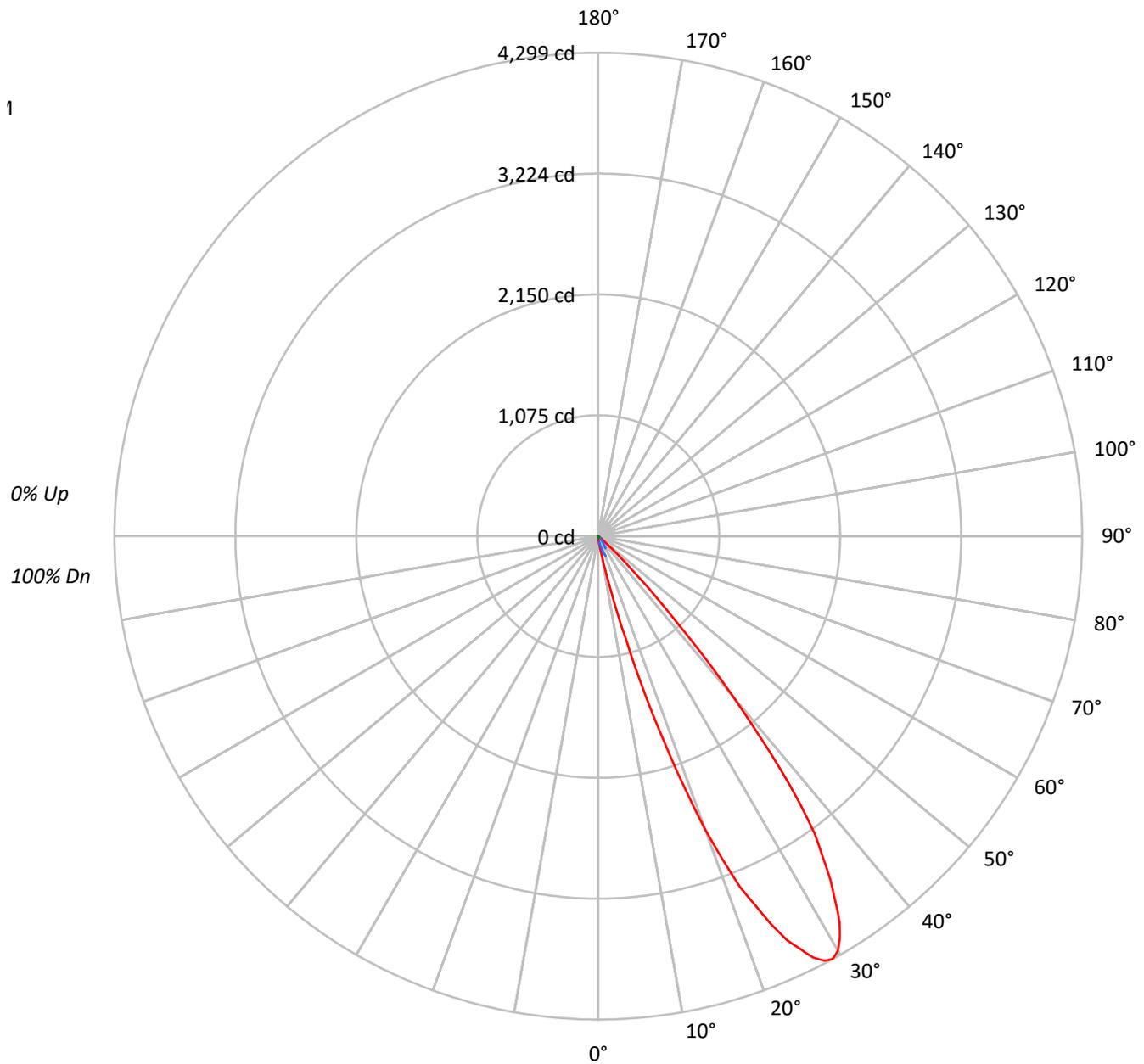
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 602.9 lumens  
Efficiency: N/A  
Efficacy: 54.8 lumens/watt  
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11  
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



— 0°-180°    - - - 45°-225°    ····· 90°-270°



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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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	96	95	93	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	83	80	77	75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	71	67	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	60	55	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	56	51	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	51	46	43	41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	48	42	39	37

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

	0°	45°	90°	135°	180°
0°	3582	3582	3582	3582	3582
5°	8229	6155	3406	2075	1798
10°	25935	10720	2781	1154	857
15°	167957	19809	2050	392	89
20°	506940	33888	1411	0	0
25°	752848	34205	836	0	0
30°	846630	25992	318	0	0
35°	730475	15537	231	0	0
40°	420640	5283	0	0	0
45°	102587	2143	122	0	122
50°	12325	589	134	134	429
55°	1651	0	330	330	661
60°	172	0	551	551	930
65°	204	204	897	897	1345
70°	252	252	1108	1108	1360
75°	0	333	1464	1065	1464
80°	0	496	1587	1091	1587
85°	0	988	3162	988	988

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2.5°  
 Vertical Angle: 45°  
 Luminance: 103269 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.8	0.5
10°-20°	55.9	9.3
20°-30°	243.6	40.4
30°-40°	245.3	40.7
40°-50°	49.2	8.2
50°-60°	2.5	0.4
60°-70°	1.6	0.3
70°-80°	1.4	0.2
80°-90°	0.7	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°	302.2	50.1
0°-40°	547.5	90.8
0°-60°	599.2	99.4
0°-90°	602.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	602.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	21	21	21	21	21	
5°	48	36	20	12	10	7
15°	942	111	12	2	0	369
25°	3962	180	4	0	0	1786
35°	3474	74	1	0	0	2067
45°	421	9	0	0	0	459
55°	6	0	1	1	2	10
65°	0	0	2	2	3	0
75°	0	0	2	2	2	0
85°	0	0	2	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8
2.5°	31.2	31.2	30.6	30.6	30.1	30.6	29.5	30.1	30.1	29.5	26.8
5°	47.6	48.7	48.1	48.1	47.6	48.1	47.0	46.0	44.9	44.9	35.6
7.5°	78.2	77.7	76.6	77.1	75.5	74.4	73.3	72.8	69.5	67.8	46.5
10°	148.3	151.5	148.8	148.3	138.4	137.9	131.3	122.0	113.8	109.4	61.3
12.5°	408.1	425.6	398.3	385.1	377.5	347.9	335.4	303.1	271.9	248.4	77.7
15°	942.0	985.3	930.0	933.8	887.9	803.6	729.8	666.3	591.4	515.9	111.1
17.5°	1845.8	1810.8	1780.7	1729.8	1636.3	1512.6	1353.4	1192.1	1052.6	906.5	154.8
20°	2766.0	2734.8	2666.4	2555.3	2436.1	2252.8	2063.5	1821.2	1586.5	1366.6	184.9
21°	3082.7	3072.3	2960.2	2891.8	2708.0	2532.9	2314.6	2055.3	1791.1	1530.7	189.8
22°	3365.5	3303.2	3243.0	3141.8	2959.1	2768.7	2525.8	2252.8	1966.1	1676.8	190.4
23°	3561.4	3532.9	3476.0	3361.7	3180.1	2956.3	2700.3	2414.7	2112.8	1780.1	188.7
24°	3778.0	3741.9	3658.8	3525.3	3342.0	3121.0	2828.9	2545.5	2217.3	1867.1	184.4
25°	3961.8	3905.5	3807.0	3663.1	3462.9	3234.8	2941.0	2629.7	2290.0	1925.7	180.0
26°	4081.1	4050.5	3924.1	3767.6	3553.2	3317.9	3018.2	2694.3	2337.1	1952.5	172.9
27°	4205.3	4148.9	4024.7	3844.8	3612.3	3372.1	3061.9	2725.5	2353.5	1953.6	164.1
28°	4276.4	4215.1	4074.5	3885.2	3650.6	3402.2	3087.1	2735.3	2350.2	1936.6	153.7
29°	4298.8	4221.7	4084.4	3891.8	3659.9	3404.4	3083.3	2721.1	2321.2	1895.0	141.7
30°	4257.3	4178.5	4048.3	3860.6	3630.3	3377.0	3047.7	2674.0	2269.8	1835.4	130.7
31°	4166.4	4099.7	3973.9	3785.7	3564.7	3313.0	2967.3	2596.9	2182.2	1755.5	118.2
32°	4046.6	3981.0	3857.3	3687.2	3462.4	3208.5	2857.3	2476.6	2079.4	1636.3	105.6
33°	3866.6	3828.9	3717.8	3555.4	3330.5	3059.2	2709.6	2332.7	1932.8	1503.9	94.6
34°	3684.5	3636.9	3559.2	3381.4	3139.6	2868.8	2517.0	2134.1	1753.9	1355.6	84.2
35°	3474.4	3446.0	3324.0	3181.7	2938.8	2662.0	2312.4	1941.0	1545.5	1190.4	73.9
36°	3270.9	3227.1	3088.2	2937.7	2701.9	2402.7	2057.5	1708.5	1365.5	1035.6	62.9
37°	2975.5	2908.7	2809.7	2651.1	2375.4	2120.4	1805.3	1481.4	1143.9	868.2	50.9
38°	2628.1	2596.9	2459.6	2299.9	2071.7	1829.9	1518.1	1243.5	943.7	724.9	38.8
39°	2218.3	2217.8	2086.5	1971.1	1747.9	1530.1	1248.9	1009.3	779.0	583.7	30.1
40°	1871.0	1806.4	1725.4	1580.5	1409.2	1224.3	978.2	790.0	604.5	470.5	23.5
42.5°	980.9	975.4	927.8	819.0	723.2	614.4	488.5	407.0	318.4	259.3	14.8
45°	421.2	424.0	391.2	374.7	337.5	292.1	246.7	205.7	176.2	142.8	8.8
47.5°	106.7	102.3	101.2	105.0	105.0	101.8	91.4	85.9	79.3	72.8	4.9
50°	46.0	44.9	43.8	43.8	41.0	39.4	36.7	33.4	30.6	27.4	2.2
52.5°	17.0	17.5	18.1	17.5	17.5	17.0	17.0	16.4	14.8	13.1	1.1
55°	5.5	5.5	5.5	6.0	6.0	6.6	6.6	6.6	6.6	6.0	0.0
57.5°	1.1	1.1	1.6	1.6	1.6	1.6	1.6	1.6	2.2	2.2	0.0
60°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0
62.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.0	0.5	0.0	0.5	0.5	0.0	0.5	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5



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**CANDELA DISTRIBUTION (continued):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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):**

	67.5°	90°	112.5°	135°	157.5°	180°
0°	20.8	20.8	20.8	20.8	20.8	20.8
2.5°	24.1	21.3	18.1	15.3	14.8	14.2
5°	26.8	19.7	14.8	12.0	10.9	10.4
7.5°	29.0	18.1	12.0	8.8	7.7	7.1
10°	30.1	15.9	9.8	6.6	4.9	4.9
12.5°	30.6	13.7	7.1	4.4	2.7	2.7
15°	30.1	11.5	5.5	2.2	0.5	0.5
17.5°	27.4	9.3	3.3	0.5	0.0	0.0
20°	23.5	7.7	2.2	0.0	0.0	0.0
21°	22.4	6.6	1.6	0.0	0.0	0.0
22°	20.8	6.0	1.1	0.0	0.0	0.0
23°	19.1	5.5	1.1	0.0	0.0	0.0
24°	17.5	4.9	0.5	0.0	0.0	0.0
25°	16.4	4.4	0.5	0.0	0.0	0.0
26°	15.3	3.8	0.5	0.0	0.0	0.0
27°	13.7	3.3	0.0	0.0	0.0	0.0
28°	12.6	2.7	0.0	0.0	0.0	0.0
29°	10.9	2.2	0.0	0.0	0.0	0.0
30°	9.3	1.6	0.0	0.0	0.0	0.0
31°	7.7	1.6	0.0	0.0	0.0	0.0
32°	6.6	1.1	0.0	0.0	0.0	0.0
33°	5.5	1.1	0.0	0.0	0.0	0.0
34°	4.9	1.1	0.0	0.0	0.0	0.0
35°	4.4	1.1	0.0	0.0	0.0	0.0
36°	3.3	0.5	0.0	0.0	0.0	0.0
37°	2.7	0.5	0.0	0.0	0.0	0.0
38°	2.2	0.5	0.0	0.0	0.0	0.0
39°	1.6	0.0	0.0	0.0	0.0	0.0
40°	1.6	0.0	0.0	0.0	0.0	0.0
42.5°	0.5	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.5	0.0	0.0	0.5	0.5
47.5°	0.0	0.5	0.0	0.0	0.5	1.1
50°	0.0	0.5	0.5	0.5	1.1	1.6
52.5°	0.0	1.1	0.5	0.5	1.6	1.6
55°	0.5	1.1	0.5	1.1	2.2	2.2
57.5°	0.5	1.1	1.1	1.6	2.2	2.7
60°	1.1	1.6	1.6	1.6	2.7	2.7
62.5°	1.1	1.6	2.2	2.2	2.7	3.3
65°	1.1	2.2	2.2	2.2	2.7	3.3
67.5°	1.6	2.2	2.2	2.2	2.7	3.3
70°	1.6	2.2	2.2	2.2	2.7	2.7
72.5°	1.6	2.2	1.6	2.2	2.2	2.7
75°	1.6	2.2	1.6	1.6	2.2	2.2
77.5°	1.1	1.6	1.6	1.1	1.6	1.6
80°	1.1	1.6	1.1	1.1	1.6	1.6



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**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.1	1.6	1.1	0.5	1.1	1.1
85°	1.1	1.6	1.1	0.5	0.5	0.5
87.5°	1.1	1.6	1.1	0.5	0.0	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)