

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: P1318593

Luminaire Tested: LDSQA3D20R159830D010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

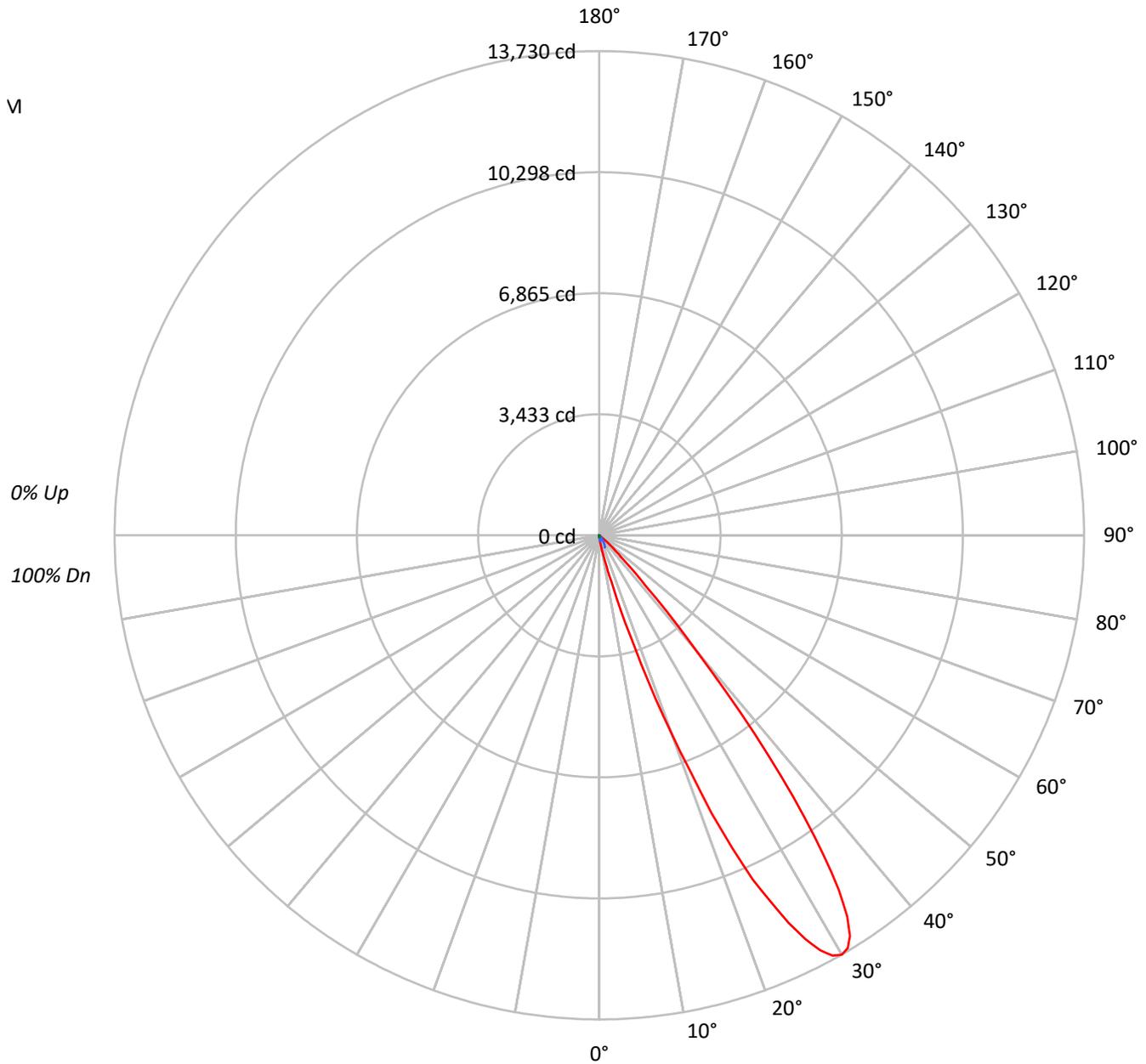
Test Method: LM-79-2019  
Report Number: P1318593  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R159830D010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 98CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1452.0 lumens  
Efficiency: N/A  
Efficacy: 53.0 lumens/watt  
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 27.4  
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



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



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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	94	96	95	94	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	75	71	79	74	70	77	73	70	77	73	70	68
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	71	66	63	61
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	65	60	57	55
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	60	55	51	50
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	55	50	46	45
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	51	46	42	41
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°	8938	8938	8938	8938	8938
5°	25863	19535	7659	3164	2109
10°	67294	29100	5072	0	0
15°	268963	47641	2728	0	0
20°	1098920	70231	843	0	0
25°	2172309	69626	0	0	0
30°	2730325	54966	0	0	0
35°	2329599	33702	0	0	0
40°	959085	10634	0	0	0
45°	207513	4457	0	0	0
50°	26579	0	0	0	0
55°	2282	0	450	0	0
60°	0	0	1068	0	0
65°	0	0	1263	0	0
70°	0	755	2316	0	0
75°	0	998	3061	0	0
80°	0	1488	4562	0	0
85°	0	2964	9090	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2°  
 Vertical Angle: 45°  
 Luminance: 217182 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7.0	0.5
10°-20°	101.8	7.0
20°-30°	593.1	40.8
30°-40°	635.9	43.8
40°-50°	107.3	7.4
50°-60°	3.2	0.2
60°-70°	1.0	0.1
70°-80°	1.4	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°	701.8	48.3
0°-40°	1337.8	92.1
0°-60°	1448.4	99.7
0°-90°	1452.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1452.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	52	52	52	52	52	
5°	150	113	44	18	12	21
15°	1508	267	15	0	0	698
25°	11432	366	0	0	0	5172
35°	11080	160	0	0	0	6368
45°	852	18	0	0	0	1006
55°	8	0	2	0	0	19
65°	0	0	3	0	0	0
75°	0	2	5	0	0	0
85°	0	2	5	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
2.5°	94.7	96.2	97.7	97.7	97.7	97.7	96.2	96.2	96.2	96.2	94.7
5°	149.6	149.6	149.6	149.6	149.6	149.6	148.1	148.1	148.1	148.1	148.1
7.5°	213.8	210.7	212.2	207.7	210.7	209.2	207.7	210.7	210.7	203.1	203.1
10°	384.8	383.2	368.0	371.0	374.1	372.6	372.6	363.4	361.9	355.8	349.7
12.5°	742.1	758.8	771.1	771.1	742.1	752.7	732.9	737.5	740.5	731.4	699.3
15°	1508.5	1536.0	1507.0	1534.5	1523.8	1484.1	1439.8	1380.3	1403.2	1362.0	1348.2
17.5°	3304.1	3366.7	3340.8	3214.0	3255.3	3157.5	3096.5	3073.6	3009.4	2818.6	2739.2
20°	5996.0	6072.3	6000.5	5852.4	5899.8	5715.0	5667.7	5623.4	5339.4	5235.6	4902.7
21°	7128.9	7191.5	7219.0	7064.8	6970.1	6823.5	6701.4	6661.7	6489.1	6289.1	5947.1
22°	8497.0	8423.7	8258.8	8280.1	8139.7	8019.1	7849.6	7689.2	7496.9	7217.5	6935.0
23°	9629.9	9544.4	9466.5	9371.8	9220.7	9135.2	8892.4	8716.8	8466.4	8167.2	7895.4
24°	10684.9	10553.6	10504.8	10336.8	10294.1	10101.7	9904.7	9675.7	9373.4	9054.3	8753.5
25°	11431.6	11451.4	11408.7	11388.8	11170.5	10973.5	10778.1	10425.4	10167.3	9884.9	9422.2
26°	12231.6	12240.8	12219.4	12072.9	11875.9	11683.5	11431.6	11124.7	10750.6	10437.6	10019.2
27°	12843.9	12807.3	12776.7	12602.7	12440.8	12198.1	11969.0	11605.6	11240.7	10868.2	10382.6
28°	13332.5	13263.8	13225.6	13076.0	12886.7	12588.9	12308.0	11969.0	11604.1	11204.1	10678.8
29°	13627.2	13553.9	13511.2	13346.3	13127.9	12866.8	12582.8	12210.3	11817.9	11372.0	10843.7
30°	13729.5	13686.7	13619.6	13448.6	13222.6	12950.8	12659.2	12254.6	11843.8	11387.3	10828.5
31°	13662.3	13607.3	13543.2	13358.5	13114.2	12854.6	12515.6	12091.2	11659.1	11223.9	10631.5
32°	13395.1	13361.5	13283.7	13036.3	12837.8	12501.9	12167.5	11770.5	11298.7	10831.5	10295.6
33°	12894.3	12839.3	12772.2	12546.2	12292.7	11970.6	11637.7	11231.6	10762.8	10269.6	9680.3
34°	12130.9	12060.6	11976.7	11825.5	11501.8	11222.4	10837.6	10362.8	9975.0	9501.6	8968.8
35°	11080.4	10978.1	10877.3	10762.8	10399.4	10141.4	9881.8	9468.0	9094.0	8648.1	8045.0
36°	9901.7	9862.0	9779.5	9477.2	9359.6	9008.5	8799.3	8324.4	8022.1	7585.4	7087.7
37°	8568.7	8335.1	8454.2	8284.7	7930.5	7820.6	7571.7	7164.0	6837.3	6376.2	6015.8
38°	7139.6	6986.9	7070.9	6899.9	6715.1	6461.7	6272.3	5974.6	5608.1	5246.3	4904.3
39°	5658.5	5534.9	5626.5	5510.4	5229.5	5124.1	4956.2	4728.7	4434.0	4151.5	3827.8
40°	4266.0	4107.2	4229.4	4064.5	3936.2	3763.7	3678.2	3469.0	3285.8	3116.3	2910.2
42.5°	1948.3	1931.5	1904.0	1844.4	1830.7	1832.2	1726.9	1658.2	1565.0	1456.6	1391.0
45°	852.0	873.4	891.7	858.1	856.6	838.2	832.1	786.3	768.0	732.9	690.1
47.5°	419.9	427.5	422.9	432.1	424.5	412.3	409.2	403.1	384.8	383.2	363.4
50°	99.2	97.7	97.7	99.2	97.7	97.7	96.2	93.1	91.6	93.1	88.6
52.5°	32.1	33.6	32.1	30.5	32.1	33.6	32.1	32.1	32.1	32.1	32.1
55°	7.6	7.6	7.6	7.6	7.6	7.6	6.1	6.1	7.6	7.6	7.6
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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):**

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):**

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
2.5°	93.1	79.4	65.7	51.9	38.2	30.5	29.0	27.5
5°	140.5	113.0	74.8	44.3	26.0	18.3	13.7	12.2
7.5°	189.3	140.5	82.5	36.6	18.3	7.6	3.1	1.5
10°	271.8	166.4	85.5	29.0	9.2	0.0	0.0	0.0
12.5°	532.9	190.9	84.0	22.9	1.5	0.0	0.0	0.0
15°	885.6	267.2	77.9	15.3	0.0	0.0	0.0	0.0
17.5°	1450.5	345.1	67.2	10.7	0.0	0.0	0.0	0.0
20°	2249.1	383.2	51.9	4.6	0.0	0.0	0.0	0.0
21°	2636.9	386.3	45.8	3.1	0.0	0.0	0.0	0.0
22°	2972.8	386.3	39.7	1.5	0.0	0.0	0.0	0.0
23°	3284.3	381.7	35.1	0.0	0.0	0.0	0.0	0.0
24°	3540.8	375.6	32.1	0.0	0.0	0.0	0.0	0.0
25°	3733.2	366.4	29.0	0.0	0.0	0.0	0.0	0.0
26°	3821.7	354.2	24.4	0.0	0.0	0.0	0.0	0.0
27°	3866.0	337.4	21.4	0.0	0.0	0.0	0.0	0.0
28°	3835.5	319.1	18.3	0.0	0.0	0.0	0.0	0.0
29°	3759.1	299.3	13.7	0.0	0.0	0.0	0.0	0.0
30°	3659.9	276.4	10.7	0.0	0.0	0.0	0.0	0.0
31°	3514.8	253.5	7.6	0.0	0.0	0.0	0.0	0.0
32°	3316.3	230.6	6.1	0.0	0.0	0.0	0.0	0.0
33°	3050.7	206.1	3.1	0.0	0.0	0.0	0.0	0.0
34°	2722.4	181.7	1.5	0.0	0.0	0.0	0.0	0.0
35°	2354.4	160.3	0.0	0.0	0.0	0.0	0.0	0.0
36°	2038.4	137.4	0.0	0.0	0.0	0.0	0.0	0.0
37°	1720.8	109.9	0.0	0.0	0.0	0.0	0.0	0.0
38°	1441.4	87.0	0.0	0.0	0.0	0.0	0.0	0.0
39°	1192.5	70.2	0.0	0.0	0.0	0.0	0.0	0.0
40°	987.9	47.3	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	546.6	32.1	0.0	0.0	0.0	0.0	0.0	0.0
45°	331.3	18.3	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	192.4	6.1	0.0	0.0	0.0	0.0	0.0	0.0
50°	73.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	24.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6.1	0.0	0.0	1.5	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.5	3.1	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.5	3.1	1.5	0.0	0.0	0.0
65°	0.0	0.0	3.1	3.1	1.5	0.0	0.0	0.0
67.5°	0.0	0.0	3.1	4.6	1.5	0.0	0.0	0.0
70°	0.0	1.5	3.1	4.6	1.5	0.0	0.0	0.0
72.5°	0.0	1.5	3.1	4.6	1.5	0.0	0.0	0.0
75°	0.0	1.5	3.1	4.6	1.5	0.0	0.0	0.0
77.5°	0.0	1.5	3.1	4.6	1.5	0.0	0.0	0.0
80°	0.0	1.5	3.1	4.6	1.5	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	1.5	3.1	4.6	1.5	0.0	0.0	0.0
85°	0.0	1.5	3.1	4.6	1.5	0.0	0.0	0.0
87.5°	0.0	1.5	3.1	4.6	1.5	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)