

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: P1324011

Luminaire Tested: LDSQA3D17R209030D2WDE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

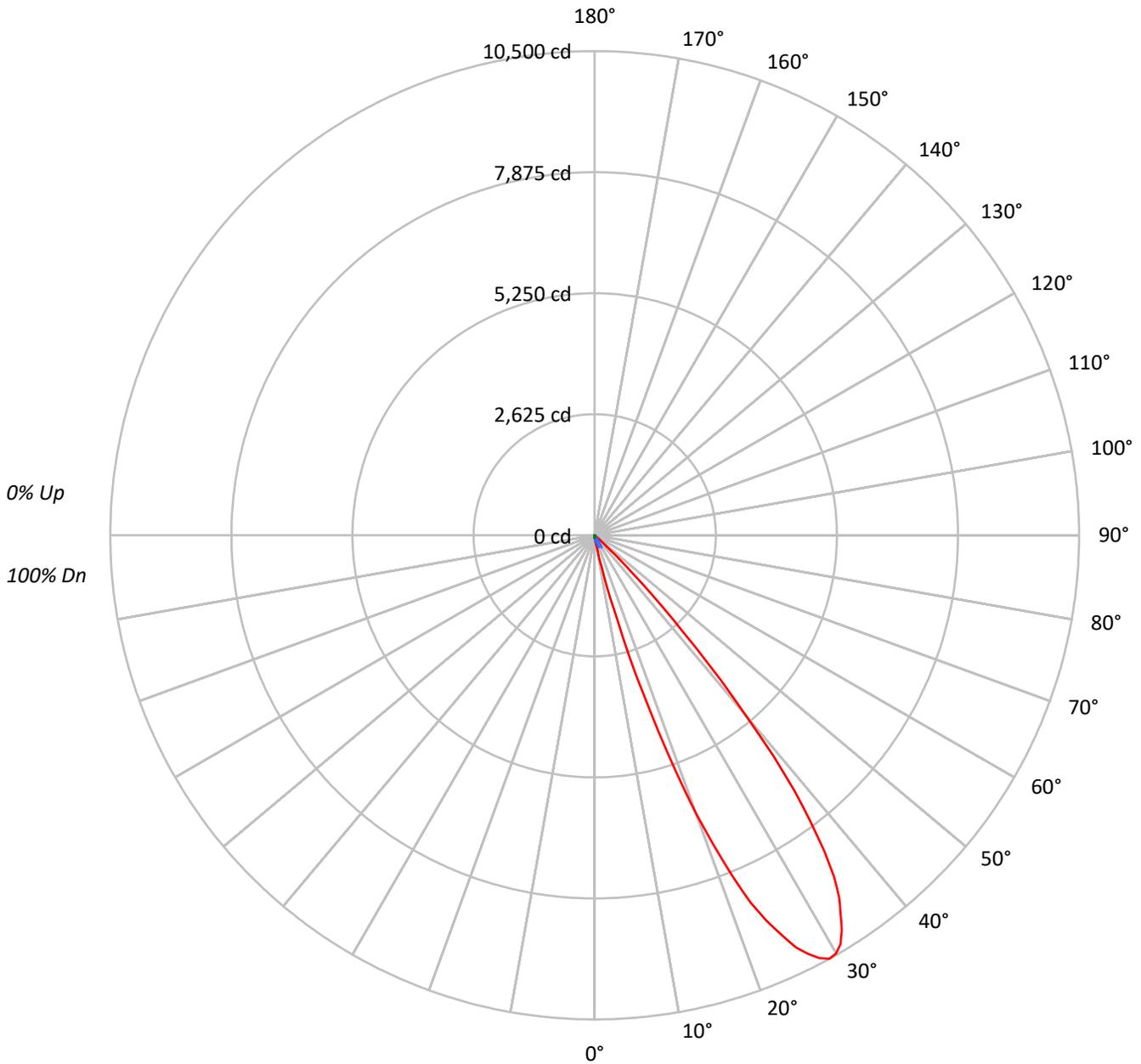
Test Method: LM-79-2019  
Report Number: P1324011  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R209030D2WDE010 3LSQCA30R 1MMS  
Description: 3in Adjustable Dim to Warm LED luminaire with, R20 optic, 3000K CCT AND, 90CRI ,  
3LSQCA30R 1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1449.0 lumens  
Efficiency: N/A  
Efficacy: 53.1 lumens/watt  
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 27.3  
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	
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	50
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	45
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36

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

	0°	45°	90°	135°	180°
0°	8938	8938	8938	8938	8938
5°	19432	13709	8229	3734	2749
10°	48389	24186	5789	752	0
15°	340442	33146	3334	0	0
20°	1176629	55734	1320	0	0
25°	1813671	71203	551	0	0
30°	2081725	55026	0	0	0
35°	1901204	20898	0	0	0
40°	1139773	9712	0	0	0
45°	280094	4555	0	0	0
50°	30892	1152	0	0	0
55°	4324	0	420	0	0
60°	0	0	999	0	0
65°	0	0	1182	0	0
70°	0	705	2165	0	0
75°	0	932	2861	0	0
80°	0	1389	4265	0	0
85°	0	2766	8497	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 1°  
 Vertical Angle: 45°  
 Luminance: 298701 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.9	0.4
10°-20°	113.2	7.8
20°-30°	572.4	39.5
30°-40°	619.3	42.7
40°-50°	130.8	9.0
50°-60°	3.9	0.3
60°-70°	0.9	0.1
70°-80°	1.3	0.1
80°-90°	1.2	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°	691.5	47.7
0°-40°	1310.8	90.5
0°-60°	1445.5	99.8
0°-90°	1449.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1449.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	52	52	52	52	52	
5°	112	79	48	22	16	16
15°	1909	186	19	0	0	796
25°	9544	375	3	0	0	4314
35°	9043	99	0	0	0	5332
45°	1150	19	0	0	0	1265
55°	14	0	1	0	0	26
65°	0	0	3	0	0	0
75°	0	1	4	0	0	0
85°	0	1	4	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°	70.6	69.2	70.6	69.2	70.6	70.6	70.6	69.2	69.2	69.2	69.2
5°	112.4	112.4	111.0	112.4	112.4	112.4	112.4	111.0	111.0	109.5	109.5
7.5°	177.3	177.3	175.8	175.8	177.3	178.7	172.9	175.8	175.8	175.8	174.4
10°	276.7	282.5	276.7	283.9	278.1	273.8	281.0	273.8	273.8	272.4	268.0
12.5°	697.5	681.6	671.5	647.0	671.5	652.8	657.1	652.8	638.4	619.7	608.1
15°	1909.4	1909.4	1853.2	1928.2	1873.4	1893.6	1789.8	1791.3	1737.9	1680.3	1648.6
17.5°	3991.8	4027.8	3990.4	3967.3	3918.3	3847.7	3818.9	3745.4	3648.8	3536.4	3523.4
20°	6420.0	6268.7	6339.3	6274.5	6234.1	6147.7	6051.1	5990.6	5905.6	5762.9	5552.5
21°	7183.8	7178.0	7176.6	7175.1	7116.1	6974.8	6886.9	6765.9	6646.3	6499.3	6323.5
22°	7953.3	7980.7	7992.2	7908.7	7787.6	7724.2	7663.7	7497.9	7309.2	7232.8	7023.8
23°	8659.5	8633.5	8558.6	8519.7	8426.0	8407.3	8227.1	8121.9	7937.5	7853.9	7606.0
24°	9140.8	9127.8	9093.2	9035.6	8960.6	8845.4	8737.3	8571.6	8420.2	8283.3	8052.8
25°	9544.3	9555.8	9492.4	9453.5	9372.8	9243.1	9110.5	8928.9	8787.7	8627.8	8361.2
26°	9943.5	9862.8	9812.3	9754.7	9666.8	9518.3	9390.1	9227.2	9055.8	8877.1	8616.2
27°	10189.9	10117.8	10041.5	9985.3	9884.4	9743.2	9606.2	9426.1	9234.4	9054.3	8786.3
28°	10384.4	10305.2	10230.2	10162.5	10047.2	9895.9	9731.6	9548.6	9349.7	9163.8	8890.0
29°	10499.7	10406.0	10325.3	10249.0	10143.8	9979.5	9813.8	9617.8	9426.1	9231.6	8952.0
30°	10468.0	10387.3	10309.5	10231.7	10125.0	9970.8	9806.6	9619.2	9426.1	9234.4	8950.6
31°	10344.1	10244.6	10188.4	10110.6	10018.4	9861.3	9720.1	9515.5	9341.1	9133.6	8849.7
32°	10106.3	10042.9	9968.0	9907.4	9818.1	9650.9	9512.6	9345.4	9139.3	8969.3	8671.0
33°	9783.5	9724.4	9686.9	9616.3	9529.9	9414.6	9248.9	9096.1	8864.1	8689.7	8391.4
34°	9475.1	9400.2	9306.5	9286.3	9211.4	9063.0	8913.1	8757.5	8549.9	8328.0	8026.8
35°	9042.8	8965.0	8878.5	8885.7	8796.4	8623.4	8470.7	8296.3	8098.9	7838.0	7552.7
36°	8464.9	8413.0	8400.1	8365.5	8263.2	8057.1	7911.5	7692.5	7526.8	7208.3	6963.3
37°	7760.2	7779.0	7685.3	7640.6	7521.0	7376.9	7294.8	7013.7	6820.6	6581.4	6250.0
38°	7048.3	7020.9	6910.0	6937.4	6773.1	6623.2	6391.2	6224.0	6007.9	5785.9	5520.8
39°	6159.2	6091.5	5958.9	5964.6	5840.7	5672.1	5447.3	5249.9	5120.2	4906.9	4653.3
40°	5069.7	5040.9	4994.8	4918.4	4755.6	4682.1	4481.8	4268.5	4159.0	3863.5	3739.6
42.5°	2813.0	2774.1	2696.3	2668.9	2582.4	2496.0	2379.2	2236.6	2167.4	2079.5	1883.5
45°	1150.0	1226.4	1207.6	1186.0	1119.7	1124.0	1040.5	1050.5	974.2	922.3	886.3
47.5°	253.6	275.2	276.7	266.6	276.7	268.0	263.7	256.5	258.0	262.3	252.2
50°	115.3	113.8	116.7	115.3	113.8	112.4	111.0	106.6	109.5	106.6	103.8
52.5°	44.7	46.1	46.1	43.2	44.7	44.7	44.7	43.2	43.2	43.2	43.2
55°	14.4	14.4	14.4	13.0	13.0	14.4	14.4	14.4	14.4	14.4	13.0
57.5°	1.4	2.9	1.4	2.9	1.4	1.4	1.4	1.4	1.4	2.9	2.9
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°	66.3	60.5	56.2	51.9	43.2	36.0	33.1	33.1
5°	102.3	79.3	59.1	47.6	33.1	21.6	17.3	15.9
7.5°	154.2	106.6	62.0	40.4	21.6	11.5	7.2	5.8
10°	223.4	138.3	64.8	33.1	13.0	4.3	0.0	0.0
12.5°	390.5	165.7	64.8	25.9	5.8	0.0	0.0	0.0
15°	894.9	185.9	62.0	18.7	1.4	0.0	0.0	0.0
17.5°	1859.0	233.5	54.8	13.0	0.0	0.0	0.0	0.0
20°	2968.6	304.1	43.2	7.2	0.0	0.0	0.0	0.0
21°	3425.5	328.6	38.9	5.8	0.0	0.0	0.0	0.0
22°	3754.0	351.6	34.6	4.3	0.0	0.0	0.0	0.0
23°	4115.7	366.0	30.3	2.9	0.0	0.0	0.0	0.0
24°	4382.3	374.7	25.9	2.9	0.0	0.0	0.0	0.0
25°	4548.1	374.7	23.1	2.9	0.0	0.0	0.0	0.0
26°	4646.0	366.0	20.2	1.4	0.0	0.0	0.0	0.0
27°	4669.1	351.6	17.3	1.4	0.0	0.0	0.0	0.0
28°	4640.3	332.9	14.4	0.0	0.0	0.0	0.0	0.0
29°	4549.5	305.5	13.0	0.0	0.0	0.0	0.0	0.0
30°	4451.5	276.7	10.1	0.0	0.0	0.0	0.0	0.0
31°	4284.3	237.8	8.6	0.0	0.0	0.0	0.0	0.0
32°	4091.2	197.4	7.2	0.0	0.0	0.0	0.0	0.0
33°	3833.3	155.6	5.8	0.0	0.0	0.0	0.0	0.0
34°	3452.8	122.5	5.8	0.0	0.0	0.0	0.0	0.0
35°	3111.3	99.4	4.3	0.0	0.0	0.0	0.0	0.0
36°	2664.6	79.3	4.3	0.0	0.0	0.0	0.0	0.0
37°	2282.7	66.3	4.3	0.0	0.0	0.0	0.0	0.0
38°	1910.9	56.2	2.9	0.0	0.0	0.0	0.0	0.0
39°	1550.6	49.0	2.9	0.0	0.0	0.0	0.0	0.0
40°	1236.4	43.2	2.9	0.0	0.0	0.0	0.0	0.0
42.5°	667.2	28.8	0.0	0.0	0.0	0.0	0.0	0.0
45°	368.9	18.7	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	162.8	10.1	0.0	0.0	0.0	0.0	0.0	0.0
50°	54.8	4.3	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	27.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	13.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0
57.5°	2.9	0.0	0.0	1.4	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.4	2.9	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.4	2.9	1.4	0.0	0.0	0.0
65°	0.0	0.0	2.9	2.9	1.4	0.0	0.0	0.0
67.5°	0.0	1.4	2.9	4.3	1.4	0.0	0.0	0.0
70°	0.0	1.4	2.9	4.3	1.4	0.0	0.0	0.0
72.5°	0.0	1.4	2.9	4.3	1.4	0.0	0.0	0.0
75°	0.0	1.4	2.9	4.3	1.4	0.0	0.0	0.0
77.5°	0.0	1.4	2.9	4.3	1.4	0.0	0.0	0.0
80°	0.0	1.4	2.9	4.3	1.4	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	1.4	2.9	4.3	1.4	0.0	0.0	0.0
85°	0.0	1.4	2.9	4.3	1.4	0.0	0.0	0.0
87.5°	0.0	1.4	2.9	4.3	1.4	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)