

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: P1318610

Luminaire Tested: LDSQA3D20R209830D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

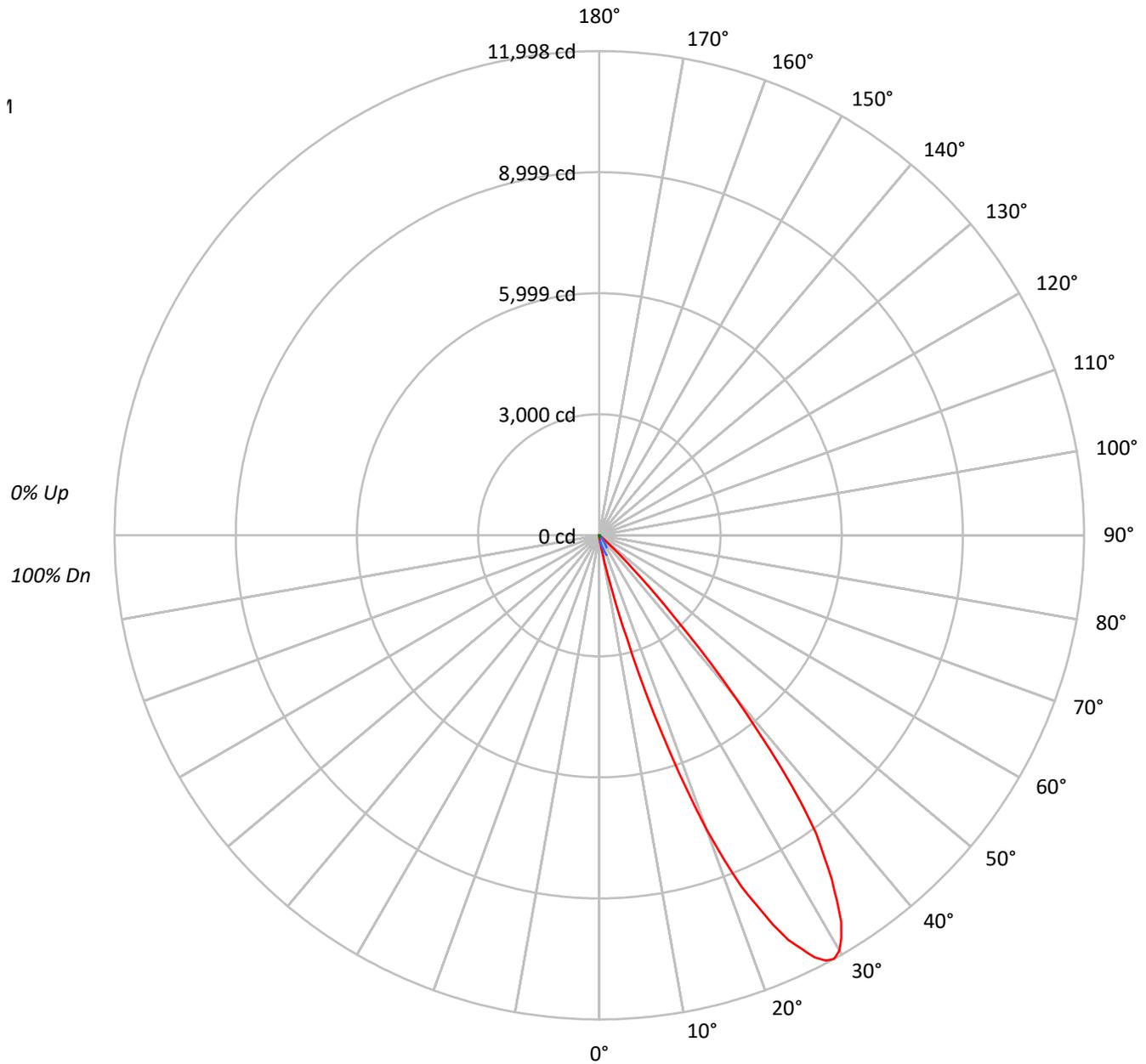
Test Method: LM-79-2019  
Report Number: P1318610  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R209830D010 3LSQCA30R 1MW  
Description: 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: 1683.0 lumens  
Efficiency: N/A  
Efficacy: 61.4 lumens/watt  
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19  
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				
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°	9989	9989	9989	9989	9989
5°	22959	17150	9508	5809	5014
10°	72365	29904	7747	3200	2396
15°	468799	55272	5723	1088	267
20°	1414869	94588	3922	0	0
25°	2101258	95450	2318	0	0
30°	2362961	72566	915	0	0
35°	2038788	43331	652	0	0
40°	1173991	14771	0	0	0
45°	286353	5943	365	0	365
50°	34376	1634	402	402	1232
55°	4594	0	931	931	1832
60°	517	0	1584	1584	2618
65°	611	611	2486	2486	3749
70°	755	755	3072	3072	3827
75°	0	998	4059	3061	4059
80°	0	1488	4562	3075	4562
85°	0	2964	9090	2964	2964

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2.5°  
 Vertical Angle: 45°  
 Luminance: 288204 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7.8	0.5
10°-20°	156.0	9.3
20°-30°	679.8	40.4
30°-40°	684.6	40.7
40°-50°	137.3	8.2
50°-60°	6.9	0.4
60°-70°	4.5	0.3
70°-80°	4.0	0.2
80°-90°	2.1	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°	843.6	50.1
0°-40°	1528.2	90.8
0°-60°	1672.4	99.4
0°-90°	1683.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1683.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	58	58	58	58	58	
5°	133	99	55	34	29	21
15°	2629	310	32	6	2	1030
25°	11058	502	12	0	0	4986
35°	9697	206	3	0	0	5770
45°	1176	24	2	0	2	1280
55°	15	0	3	3	6	28
65°	2	2	6	6	9	1
75°	0	2	6	5	6	1
85°	0	2	5	2	2	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°	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
2.5°	87.0	87.0	85.5	85.5	84.0	85.5	82.5	84.0	84.0	82.5	74.8
5°	132.8	135.9	134.4	134.4	132.8	134.4	131.3	128.3	125.2	125.2	99.2
7.5°	218.3	216.8	213.8	215.3	210.7	207.7	204.6	203.1	193.9	189.3	129.8
10°	413.8	422.9	415.3	413.8	386.3	384.8	366.5	340.5	317.6	305.4	171.0
12.5°	1139.1	1187.9	1111.6	1074.9	1053.5	971.1	936.0	845.9	758.9	693.2	216.8
15°	2629.3	2749.9	2595.7	2606.4	2478.1	2243.0	2036.9	1859.7	1650.6	1439.8	310.0
17.5°	5151.7	5054.0	4970.0	4828.0	4566.9	4221.8	3777.5	3327.1	2937.7	2530.0	432.1
20°	7719.9	7632.9	7442.0	7132.1	6799.2	6287.7	5759.4	5083.0	4428.0	3814.1	516.1
21°	8604.0	8575.0	8261.9	8071.1	7558.1	7069.5	6460.2	5736.5	4999.0	4272.2	529.8
22°	9393.4	9219.3	9051.3	8768.9	8258.9	7727.5	7049.6	6287.7	5487.6	4679.9	531.4
23°	9940.0	9860.6	9701.8	9382.7	8875.8	8251.3	7536.7	6739.6	5896.8	4968.5	526.8
24°	10544.6	10443.9	10211.8	9839.2	9327.7	8710.8	7895.5	7104.6	6188.4	5211.2	514.6
25°	11057.7	10900.4	10625.6	10224.0	9665.1	9028.4	8208.5	7339.7	6391.5	5374.6	502.3
26°	11390.5	11305.0	10952.3	10515.6	9917.1	9260.5	8423.8	7519.9	6522.8	5449.4	482.5
27°	11737.1	11579.9	11233.3	10730.9	10082.0	9411.7	8545.9	7606.9	6568.6	5452.5	458.1
28°	11935.6	11764.6	11372.2	10843.9	10188.9	9495.7	8616.2	7634.4	6559.5	5405.2	429.1
29°	11998.2	11782.9	11399.7	10862.2	10214.8	9501.8	8605.5	7594.7	6478.6	5289.1	395.5
30°	11882.2	11662.3	11298.9	10775.2	10132.4	9425.4	8506.2	7463.4	6335.0	5122.7	364.9
31°	11628.7	11442.4	11091.3	10566.0	9949.1	9246.8	8281.8	7248.1	6090.7	4899.8	329.8
32°	11294.3	11111.1	10766.0	10291.2	9663.6	8955.2	7974.9	6912.2	5803.7	4566.9	294.7
33°	10792.0	10686.6	10376.7	9923.2	9295.6	8538.3	7562.6	6510.6	5394.5	4197.4	264.2
34°	10283.5	10150.7	9933.9	9437.6	8762.8	8007.0	7025.2	5956.4	4895.2	3783.6	235.1
35°	9697.2	9617.8	9277.3	8880.3	8202.4	7429.8	6454.1	5417.4	4313.4	3322.5	206.1
36°	9129.2	9007.1	8619.2	8199.3	7541.3	6706.1	5742.6	4768.4	3811.1	2890.4	175.6
37°	8304.7	8118.4	7842.1	7399.3	6629.7	5918.2	5038.7	4134.8	3192.7	2423.2	142.0
38°	7335.1	7248.1	6864.9	6419.0	5782.3	5107.4	4237.1	3470.6	2633.9	2023.1	108.4
39°	6191.5	6190.0	5823.5	5501.3	4878.4	4270.7	3485.9	2817.1	2174.3	1629.2	84.0
40°	5221.9	5041.8	4815.8	4411.2	3933.2	3417.2	2730.1	2204.8	1687.2	1313.1	65.7
42.5°	2737.7	2722.4	2589.6	2285.7	2018.5	1714.7	1363.5	1136.0	888.6	723.7	41.2
45°	1175.7	1183.3	1091.7	1045.9	942.1	815.4	688.6	574.1	491.7	398.5	24.4
47.5°	297.7	285.5	282.5	293.2	293.2	284.0	255.0	239.7	221.4	203.1	13.7
50°	128.3	125.2	122.2	122.2	114.5	109.9	102.3	93.1	85.5	76.3	6.1
52.5°	47.3	48.9	50.4	48.9	48.9	47.3	47.3	45.8	41.2	36.6	3.1
55°	15.3	15.3	15.3	16.8	16.8	18.3	18.3	18.3	18.3	16.8	0.0
57.5°	3.1	3.1	4.6	4.6	4.6	4.6	4.6	4.6	6.1	6.1	0.0
60°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0
62.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
65°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
67.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
70°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
72.5°	1.5	0.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
75°	0.0	0.0	0.0	1.5	0.0	1.5	1.5	0.0	1.5	1.5	1.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5



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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	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
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°	58.0	58.0	58.0	58.0	58.0	58.0
2.5°	67.2	59.5	50.4	42.8	41.2	39.7
5°	74.8	55.0	41.2	33.6	30.5	29.0
7.5°	80.9	50.4	33.6	24.4	21.4	19.8
10°	84.0	44.3	27.5	18.3	13.7	13.7
12.5°	85.5	38.2	19.8	12.2	7.6	7.6
15°	84.0	32.1	15.3	6.1	1.5	1.5
17.5°	76.3	26.0	9.2	1.5	0.0	0.0
20°	65.7	21.4	6.1	0.0	0.0	0.0
21°	62.6	18.3	4.6	0.0	0.0	0.0
22°	58.0	16.8	3.1	0.0	0.0	0.0
23°	53.4	15.3	3.1	0.0	0.0	0.0
24°	48.9	13.7	1.5	0.0	0.0	0.0
25°	45.8	12.2	1.5	0.0	0.0	0.0
26°	42.8	10.7	1.5	0.0	0.0	0.0
27°	38.2	9.2	0.0	0.0	0.0	0.0
28°	35.1	7.6	0.0	0.0	0.0	0.0
29°	30.5	6.1	0.0	0.0	0.0	0.0
30°	26.0	4.6	0.0	0.0	0.0	0.0
31°	21.4	4.6	0.0	0.0	0.0	0.0
32°	18.3	3.1	0.0	0.0	0.0	0.0
33°	15.3	3.1	0.0	0.0	0.0	0.0
34°	13.7	3.1	0.0	0.0	0.0	0.0
35°	12.2	3.1	0.0	0.0	0.0	0.0
36°	9.2	1.5	0.0	0.0	0.0	0.0
37°	7.6	1.5	0.0	0.0	0.0	0.0
38°	6.1	1.5	0.0	0.0	0.0	0.0
39°	4.6	0.0	0.0	0.0	0.0	0.0
40°	4.6	0.0	0.0	0.0	0.0	0.0
42.5°	1.5	0.0	0.0	0.0	0.0	0.0
45°	0.0	1.5	0.0	0.0	1.5	1.5
47.5°	0.0	1.5	0.0	0.0	1.5	3.1
50°	0.0	1.5	1.5	1.5	3.1	4.6
52.5°	0.0	3.1	1.5	1.5	4.6	4.6
55°	1.5	3.1	1.5	3.1	6.1	6.1
57.5°	1.5	3.1	3.1	4.6	6.1	7.6
60°	3.1	4.6	4.6	4.6	7.6	7.6
62.5°	3.1	4.6	6.1	6.1	7.6	9.2
65°	3.1	6.1	6.1	6.1	7.6	9.2
67.5°	4.6	6.1	6.1	6.1	7.6	9.2
70°	4.6	6.1	6.1	6.1	7.6	7.6
72.5°	4.6	6.1	4.6	6.1	6.1	7.6
75°	4.6	6.1	4.6	4.6	6.1	6.1
77.5°	3.1	4.6	4.6	3.1	4.6	4.6
80°	3.1	4.6	3.1	3.1	4.6	4.6



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**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)