

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: P1311601

Luminaire Tested: LDSQA3D17R209040DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

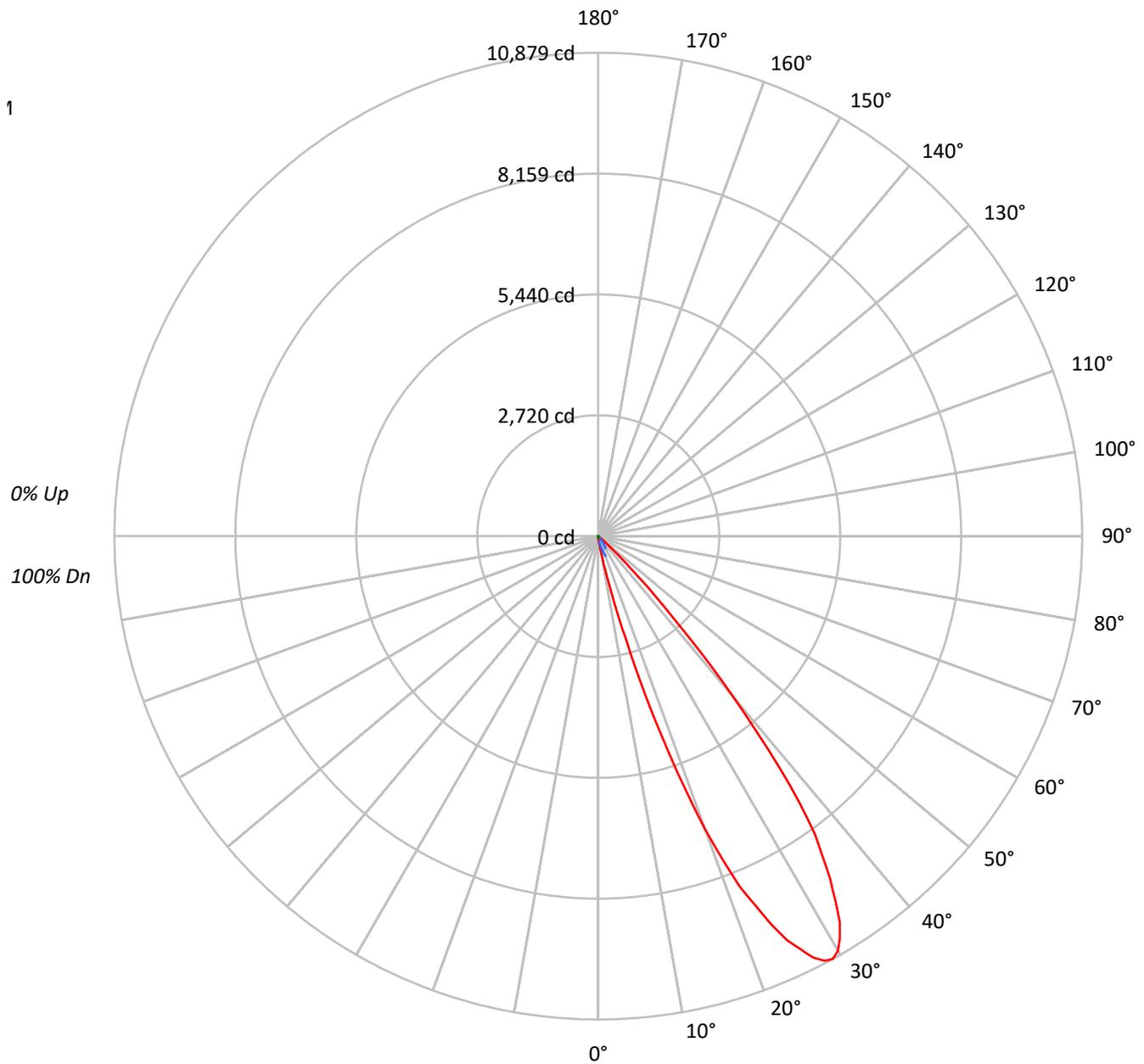
Test Method: LM-79-2019  
Report Number: P1311601  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R209040DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1526.0 lumens  
Efficiency: N/A  
Efficacy: 72.0 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): 21.2  
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	100				100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92				92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83				83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75				75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68				68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61				61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55				55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50				50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45				45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41				41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37				37

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

	0°	45°	90°	135°	180°
0°	9059	9059	9059	9059	9059
5°	20815	15559	8609	5273	4547
10°	65615	27124	7013	2903	2186
15°	425062	50102	5188	981	250
20°	1282874	85755	3556	0	0
25°	1905226	86557	2109	0	0
30°	2142518	65805	835	0	0
35°	1848600	39295	589	0	0
40°	1064481	13377	0	0	0
45°	259635	5407	341	0	341
50°	31160	1474	375	375	1125
55°	4144	0	841	841	1651
60°	482	0	1447	1447	2377
65°	571	571	2241	2241	3382
70°	705	705	2769	2769	3474
75°	0	932	3660	2795	3660
80°	0	1389	4166	2777	4166
85°	0	2766	8299	2766	2766

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2.5°  
 Vertical Angle: 45°  
 Luminance: 261315 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7.0	0.5
10°-20°	141.4	9.3
20°-30°	616.4	40.4
30°-40°	620.8	40.7
40°-50°	124.5	8.2
50°-60°	6.3	0.4
60°-70°	4.1	0.3
70°-80°	3.7	0.2
80°-90°	1.9	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°	764.9	50.1
0°-40°	1385.6	90.8
0°-60°	1516.4	99.4
0°-90°	1526.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1526.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	53	53	53	53	53	
5°	120	90	50	30	26	19
15°	2384	281	29	6	1	934
25°	10026	456	11	0	0	4521
35°	8793	187	3	0	0	5232
45°	1066	22	1	0	1	1161
55°	14	0	3	3	6	26
65°	1	1	6	6	8	1
75°	0	1	6	4	6	1
85°	0	1	4	1	1	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°	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
2.5°	78.9	78.9	77.5	77.5	76.1	77.5	74.8	76.1	76.1	74.8	67.8
5°	120.4	123.2	121.8	121.8	120.4	121.8	119.1	116.3	113.5	113.5	90.0
7.5°	198.0	196.6	193.8	195.2	191.1	188.3	185.5	184.1	175.8	171.7	117.7
10°	375.2	383.5	376.6	375.2	350.3	348.9	332.3	308.7	288.0	276.9	155.1
12.5°	1032.8	1077.1	1007.9	974.6	955.3	880.5	848.7	767.0	688.1	628.5	196.6
15°	2384.0	2493.4	2353.6	2363.2	2247.0	2033.7	1846.8	1686.3	1496.6	1305.5	281.0
17.5°	4671.1	4582.5	4506.4	4377.6	4140.9	3828.0	3425.1	3016.7	2663.7	2294.0	391.8
20°	6999.7	6920.8	6747.8	6466.7	6164.9	5701.1	5222.1	4608.8	4014.9	3458.3	467.9
21°	7801.3	7775.0	7491.2	7318.2	6853.0	6410.0	5857.6	5201.4	4532.7	3873.7	480.4
22°	8517.1	8359.3	8207.0	7950.9	7488.5	7006.7	6392.0	5701.1	4975.7	4243.3	481.8
23°	9012.7	8940.7	8796.8	8507.4	8047.8	7481.5	6833.6	6110.9	5346.7	4505.0	477.6
24°	9561.0	9469.6	9259.2	8921.4	8457.6	7898.3	7159.0	6441.8	5611.2	4725.1	466.6
25°	10026.1	9883.5	9634.3	9270.2	8763.5	8186.2	7442.8	6655.0	5795.3	4873.2	455.5
26°	10327.9	10250.4	9930.6	9534.7	8992.0	8396.7	7638.0	6818.4	5914.3	4941.1	437.5
27°	10642.2	10499.6	10185.4	9729.9	9141.5	8533.7	7748.7	6897.3	5955.9	4943.8	415.3
28°	10822.2	10667.1	10311.3	9832.3	9238.4	8609.9	7812.4	6922.2	5947.6	4900.9	389.0
29°	10879.0	10683.8	10336.3	9848.9	9261.9	8615.4	7802.7	6886.2	5874.2	4795.7	358.6
30°	10773.7	10574.4	10244.9	9770.0	9187.2	8546.2	7712.7	6767.2	5744.1	4644.8	330.9
31°	10543.9	10375.0	10056.6	9580.4	9021.0	8384.2	7509.2	6572.0	5522.5	4442.7	299.0
32°	10240.7	10074.6	9761.7	9331.2	8762.1	8119.8	7230.9	6267.4	5262.3	4140.9	267.2
33°	9785.2	9689.7	9408.7	8997.5	8428.5	7741.8	6857.1	5903.3	4891.2	3805.8	239.5
34°	9324.2	9203.8	9007.2	8557.2	7945.3	7260.0	6369.8	5400.7	4438.5	3430.7	213.2
35°	8792.6	8720.6	8411.9	8051.9	7437.2	6736.7	5852.0	4912.0	3911.1	3012.5	186.9
36°	8277.6	8166.8	7815.2	7434.5	6837.8	6080.5	5206.9	4323.6	3455.6	2620.8	159.2
37°	7530.0	7361.1	7110.5	6709.0	6011.3	5366.1	4568.7	3749.1	2894.9	2197.1	128.8
38°	6650.9	6572.0	6224.5	5820.2	5242.9	4631.0	3841.8	3146.8	2388.2	1834.4	98.3
39°	5613.9	5612.5	5280.3	4988.2	4423.3	3872.3	3160.7	2554.3	1971.4	1477.2	76.1
40°	4734.8	4571.4	4366.5	3999.7	3566.3	3098.4	2475.4	1999.1	1529.8	1190.6	59.5
42.5°	2482.3	2468.5	2348.0	2072.5	1830.2	1554.7	1236.3	1030.0	805.7	656.2	37.4
45°	1066.0	1072.9	989.9	948.3	854.2	739.3	624.4	520.6	445.8	361.3	22.2
47.5°	270.0	258.9	256.1	265.8	265.8	257.5	231.2	217.4	200.7	184.1	12.5
50°	116.3	113.5	110.8	110.8	103.8	99.7	92.8	84.5	77.5	69.2	5.5
52.5°	42.9	44.3	45.7	44.3	44.3	42.9	42.9	41.5	37.4	33.2	2.8
55°	13.8	13.8	13.8	15.2	15.2	16.6	16.6	16.6	16.6	15.2	0.0
57.5°	2.8	2.8	4.2	4.2	4.2	4.2	4.2	4.2	5.5	5.5	0.0
60°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0
62.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
65°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
67.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
70°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
72.5°	1.4	0.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
75°	0.0	0.0	0.0	1.4	0.0	1.4	1.4	0.0	1.4	1.4	1.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4



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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	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
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°	52.6	52.6	52.6	52.6	52.6	52.6
2.5°	60.9	54.0	45.7	38.8	37.4	36.0
5°	67.8	49.8	37.4	30.5	27.7	26.3
7.5°	73.4	45.7	30.5	22.2	19.4	18.0
10°	76.1	40.1	24.9	16.6	12.5	12.5
12.5°	77.5	34.6	18.0	11.1	6.9	6.9
15°	76.1	29.1	13.8	5.5	1.4	1.4
17.5°	69.2	23.5	8.3	1.4	0.0	0.0
20°	59.5	19.4	5.5	0.0	0.0	0.0
21°	56.8	16.6	4.2	0.0	0.0	0.0
22°	52.6	15.2	2.8	0.0	0.0	0.0
23°	48.5	13.8	2.8	0.0	0.0	0.0
24°	44.3	12.5	1.4	0.0	0.0	0.0
25°	41.5	11.1	1.4	0.0	0.0	0.0
26°	38.8	9.7	1.4	0.0	0.0	0.0
27°	34.6	8.3	0.0	0.0	0.0	0.0
28°	31.8	6.9	0.0	0.0	0.0	0.0
29°	27.7	5.5	0.0	0.0	0.0	0.0
30°	23.5	4.2	0.0	0.0	0.0	0.0
31°	19.4	4.2	0.0	0.0	0.0	0.0
32°	16.6	2.8	0.0	0.0	0.0	0.0
33°	13.8	2.8	0.0	0.0	0.0	0.0
34°	12.5	2.8	0.0	0.0	0.0	0.0
35°	11.1	2.8	0.0	0.0	0.0	0.0
36°	8.3	1.4	0.0	0.0	0.0	0.0
37°	6.9	1.4	0.0	0.0	0.0	0.0
38°	5.5	1.4	0.0	0.0	0.0	0.0
39°	4.2	0.0	0.0	0.0	0.0	0.0
40°	4.2	0.0	0.0	0.0	0.0	0.0
42.5°	1.4	0.0	0.0	0.0	0.0	0.0
45°	0.0	1.4	0.0	0.0	1.4	1.4
47.5°	0.0	1.4	0.0	0.0	1.4	2.8
50°	0.0	1.4	1.4	1.4	2.8	4.2
52.5°	0.0	2.8	1.4	1.4	4.2	4.2
55°	1.4	2.8	1.4	2.8	5.5	5.5
57.5°	1.4	2.8	2.8	4.2	5.5	6.9
60°	2.8	4.2	4.2	4.2	6.9	6.9
62.5°	2.8	4.2	5.5	5.5	6.9	8.3
65°	2.8	5.5	5.5	5.5	6.9	8.3
67.5°	4.2	5.5	5.5	5.5	6.9	8.3
70°	4.2	5.5	5.5	5.5	6.9	6.9
72.5°	4.2	5.5	4.2	5.5	5.5	6.9
75°	4.2	5.5	4.2	4.2	5.5	5.5
77.5°	2.8	4.2	4.2	2.8	4.2	4.2
80°	2.8	4.2	2.8	2.8	4.2	4.2



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**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	2.8	4.2	2.8	1.4	2.8	2.8
85°	2.8	4.2	2.8	1.4	1.4	1.4
87.5°	2.8	4.2	2.8	1.4	0.0	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)