

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: P1309365

Luminaire Tested: LDSQA3D17R209030DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

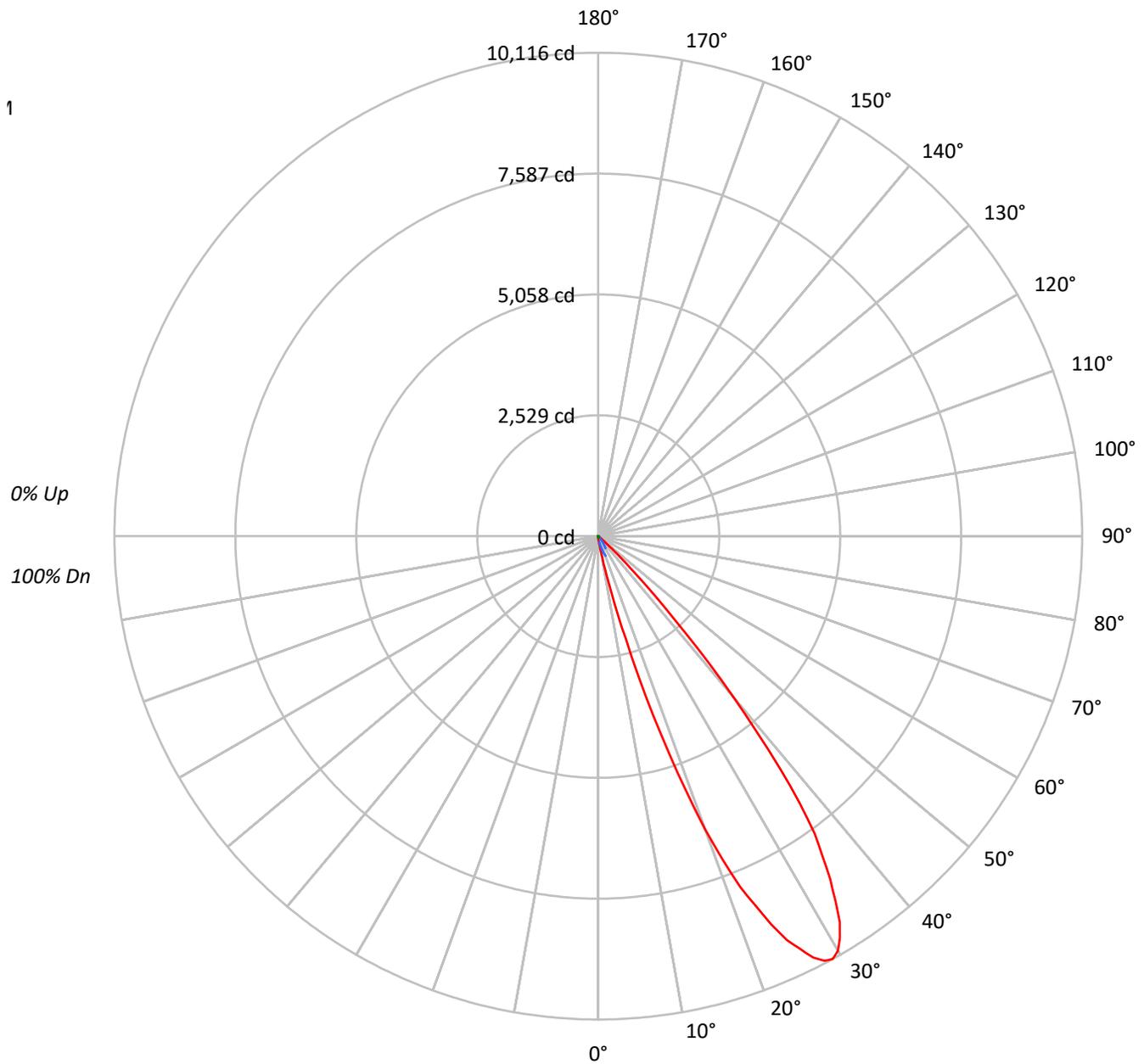
Test Method: LM-79-2019  
Report Number: P1309365  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R209030DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1419.0 lumens  
Efficiency: N/A  
Efficacy: 66.9 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 (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°	8422	8422	8422	8422	8422
5°	19363	14470	8004	4893	4236
10°	61015	25218	6523	2693	2029
15°	395251	46589	4814	909	232
20°	1192922	79743	3299	0	0
25°	1771638	80476	1957	0	0
30°	1992295	61191	776	0	0
35°	1718984	36541	547	0	0
40°	989841	12455	0	0	0
45°	241441	5017	317	0	317
50°	28963	1366	348	348	1045
55°	3873	0	781	781	1531
60°	448	0	1343	1343	2204
65°	530	530	2078	2078	3138
70°	655	655	2568	2568	3223
75°	0	865	3394	2595	3394
80°	0	1289	3868	2579	3868
85°	0	2569	7707	2569	2569

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2.5°  
 Vertical Angle: 45°  
 Luminance: 242999 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.6	0.5
10°-20°	131.5	9.3
20°-30°	573.2	40.4
30°-40°	577.2	40.7
40°-50°	115.8	8.2
50°-60°	5.8	0.4
60°-70°	3.8	0.3
70°-80°	3.4	0.2
80°-90°	1.7	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°	711.2	50.1
0°-40°	1288.5	90.8
0°-60°	1410.1	99.4
0°-90°	1419.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1419.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	49	49	49	49	49	
5°	112	84	46	28	24	18
15°	2217	261	27	5	1	868
25°	9323	424	10	0	0	4204
35°	8176	174	3	0	0	4865
45°	991	21	1	0	1	1079
55°	13	0	3	3	5	24
65°	1	1	5	5	8	1
75°	0	1	5	4	5	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°	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
2.5°	73.4	73.4	72.1	72.1	70.8	72.1	69.5	70.8	70.8	69.5	63.1
5°	112.0	114.6	113.3	113.3	112.0	113.3	110.7	108.1	105.6	105.6	83.7
7.5°	184.1	182.8	180.2	181.5	177.7	175.1	172.5	171.2	163.5	159.6	109.4
10°	348.9	356.6	350.2	348.9	325.7	324.4	309.0	287.1	267.8	257.5	144.2
12.5°	960.4	1001.6	937.2	906.3	888.3	818.8	789.2	713.2	639.8	584.5	182.8
15°	2216.8	2318.6	2188.5	2197.5	2089.4	1891.1	1717.4	1568.0	1391.6	1214.0	261.3
17.5°	4343.6	4261.2	4190.4	4070.7	3850.5	3559.6	3185.0	2805.2	2476.9	2133.2	364.3
20°	6508.9	6435.6	6274.6	6013.3	5732.7	5301.4	4856.0	4285.7	3733.4	3215.8	435.1
21°	7254.3	7229.9	6966.0	6805.0	6372.5	5960.5	5446.9	4836.6	4214.8	3602.1	446.7
22°	7919.9	7773.1	7631.5	7393.4	6963.4	6515.4	5943.8	5301.4	4626.8	3945.8	448.0
23°	8380.8	8313.8	8179.9	7910.9	7483.5	6956.9	6354.5	5682.4	4971.8	4189.1	444.1
24°	8890.6	8805.6	8609.9	8295.8	7864.5	7344.4	6657.0	5990.1	5217.7	4393.8	433.8
25°	9323.1	9190.5	8958.8	8620.2	8149.0	7612.2	6920.9	6188.4	5388.9	4531.5	423.5
26°	9603.8	9531.7	9234.3	8866.1	8361.5	7807.9	7102.4	6340.3	5499.6	4594.6	406.8
27°	9896.0	9763.4	9471.2	9047.6	8500.5	7935.3	7205.4	6413.7	5538.3	4597.2	386.2
28°	10063.4	9919.2	9588.3	9142.9	8590.6	8006.1	7264.6	6436.8	5530.5	4557.3	361.8
29°	10116.1	9934.6	9611.5	9158.3	8612.5	8011.3	7255.6	6403.4	5462.3	4459.4	333.4
30°	10018.3	9832.9	9526.5	9085.0	8543.0	7946.9	7171.9	6292.7	5341.3	4319.1	307.7
31°	9804.6	9647.5	9351.5	8908.6	8388.5	7796.3	6982.7	6111.1	5135.3	4131.2	278.1
32°	9522.7	9368.2	9077.2	8676.9	8147.8	7550.4	6723.9	5827.9	4893.3	3850.5	248.5
33°	9099.1	9010.3	8749.0	8366.6	7837.5	7199.0	6376.3	5489.3	4548.3	3539.0	222.7
34°	8670.4	8558.4	8375.6	7957.2	7388.2	6751.0	5923.2	5022.0	4127.3	3190.1	198.3
35°	8176.1	8109.1	7822.1	7487.3	6915.7	6264.3	5441.7	4567.6	3636.8	2801.3	173.8
36°	7697.2	7594.2	7267.2	6913.2	6358.3	5654.1	4841.8	4020.5	3213.3	2437.0	148.0
37°	7002.0	6844.9	6611.9	6238.6	5589.8	4989.8	4248.3	3486.2	2691.9	2043.1	119.7
38°	6184.5	6111.1	5788.0	5412.1	4875.3	4306.3	3572.4	2926.2	2220.7	1705.8	91.4
39°	5220.3	5219.0	4910.0	4638.4	4113.1	3600.8	2939.1	2375.2	1833.2	1373.6	70.8
40°	4402.8	4250.9	4060.4	3719.2	3316.3	2881.1	2301.8	1859.0	1422.5	1107.1	55.4
42.5°	2308.3	2295.4	2183.4	1927.2	1701.9	1445.7	1149.6	957.8	749.2	610.2	34.8
45°	991.3	997.7	920.5	881.8	794.3	687.5	580.6	484.1	414.5	336.0	20.6
47.5°	251.0	240.7	238.2	247.2	247.2	239.5	215.0	202.1	186.7	171.2	11.6
50°	108.1	105.6	103.0	103.0	96.6	92.7	86.3	78.5	72.1	64.4	5.1
52.5°	39.9	41.2	42.5	41.2	41.2	39.9	39.9	38.6	34.8	30.9	2.6
55°	12.9	12.9	12.9	14.2	14.2	15.4	15.4	15.4	15.4	14.2	0.0
57.5°	2.6	2.6	3.9	3.9	3.9	3.9	3.9	3.9	5.1	5.1	0.0
60°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0
62.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
65°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
67.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
70°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
72.5°	1.3	0.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
75°	0.0	0.0	0.0	1.3	0.0	1.3	1.3	0.0	1.3	1.3	1.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3



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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	1.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
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°	48.9	48.9	48.9	48.9	48.9	48.9
2.5°	56.6	50.2	42.5	36.0	34.8	33.5
5°	63.1	46.3	34.8	28.3	25.7	24.5
7.5°	68.2	42.5	28.3	20.6	18.0	16.7
10°	70.8	37.3	23.2	15.4	11.6	11.6
12.5°	72.1	32.2	16.7	10.3	6.4	6.4
15°	70.8	27.0	12.9	5.1	1.3	1.3
17.5°	64.4	21.9	7.7	1.3	0.0	0.0
20°	55.4	18.0	5.1	0.0	0.0	0.0
21°	52.8	15.4	3.9	0.0	0.0	0.0
22°	48.9	14.2	2.6	0.0	0.0	0.0
23°	45.1	12.9	2.6	0.0	0.0	0.0
24°	41.2	11.6	1.3	0.0	0.0	0.0
25°	38.6	10.3	1.3	0.0	0.0	0.0
26°	36.0	9.0	1.3	0.0	0.0	0.0
27°	32.2	7.7	0.0	0.0	0.0	0.0
28°	29.6	6.4	0.0	0.0	0.0	0.0
29°	25.7	5.1	0.0	0.0	0.0	0.0
30°	21.9	3.9	0.0	0.0	0.0	0.0
31°	18.0	3.9	0.0	0.0	0.0	0.0
32°	15.4	2.6	0.0	0.0	0.0	0.0
33°	12.9	2.6	0.0	0.0	0.0	0.0
34°	11.6	2.6	0.0	0.0	0.0	0.0
35°	10.3	2.6	0.0	0.0	0.0	0.0
36°	7.7	1.3	0.0	0.0	0.0	0.0
37°	6.4	1.3	0.0	0.0	0.0	0.0
38°	5.1	1.3	0.0	0.0	0.0	0.0
39°	3.9	0.0	0.0	0.0	0.0	0.0
40°	3.9	0.0	0.0	0.0	0.0	0.0
42.5°	1.3	0.0	0.0	0.0	0.0	0.0
45°	0.0	1.3	0.0	0.0	1.3	1.3
47.5°	0.0	1.3	0.0	0.0	1.3	2.6
50°	0.0	1.3	1.3	1.3	2.6	3.9
52.5°	0.0	2.6	1.3	1.3	3.9	3.9
55°	1.3	2.6	1.3	2.6	5.1	5.1
57.5°	1.3	2.6	2.6	3.9	5.1	6.4
60°	2.6	3.9	3.9	3.9	6.4	6.4
62.5°	2.6	3.9	5.1	5.1	6.4	7.7
65°	2.6	5.1	5.1	5.1	6.4	7.7
67.5°	3.9	5.1	5.1	5.1	6.4	7.7
70°	3.9	5.1	5.1	5.1	6.4	6.4
72.5°	3.9	5.1	3.9	5.1	5.1	6.4
75°	3.9	5.1	3.9	3.9	5.1	5.1
77.5°	2.6	3.9	3.9	2.6	3.9	3.9
80°	2.6	3.9	2.6	2.6	3.9	3.9



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**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	2.6	3.9	2.6	1.3	2.6	2.6
85°	2.6	3.9	2.6	1.3	1.3	1.3
87.5°	2.6	3.9	2.6	1.3	0.0	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)