

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: P1318609

Luminaire Tested: LDSQA3D20R209830D010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

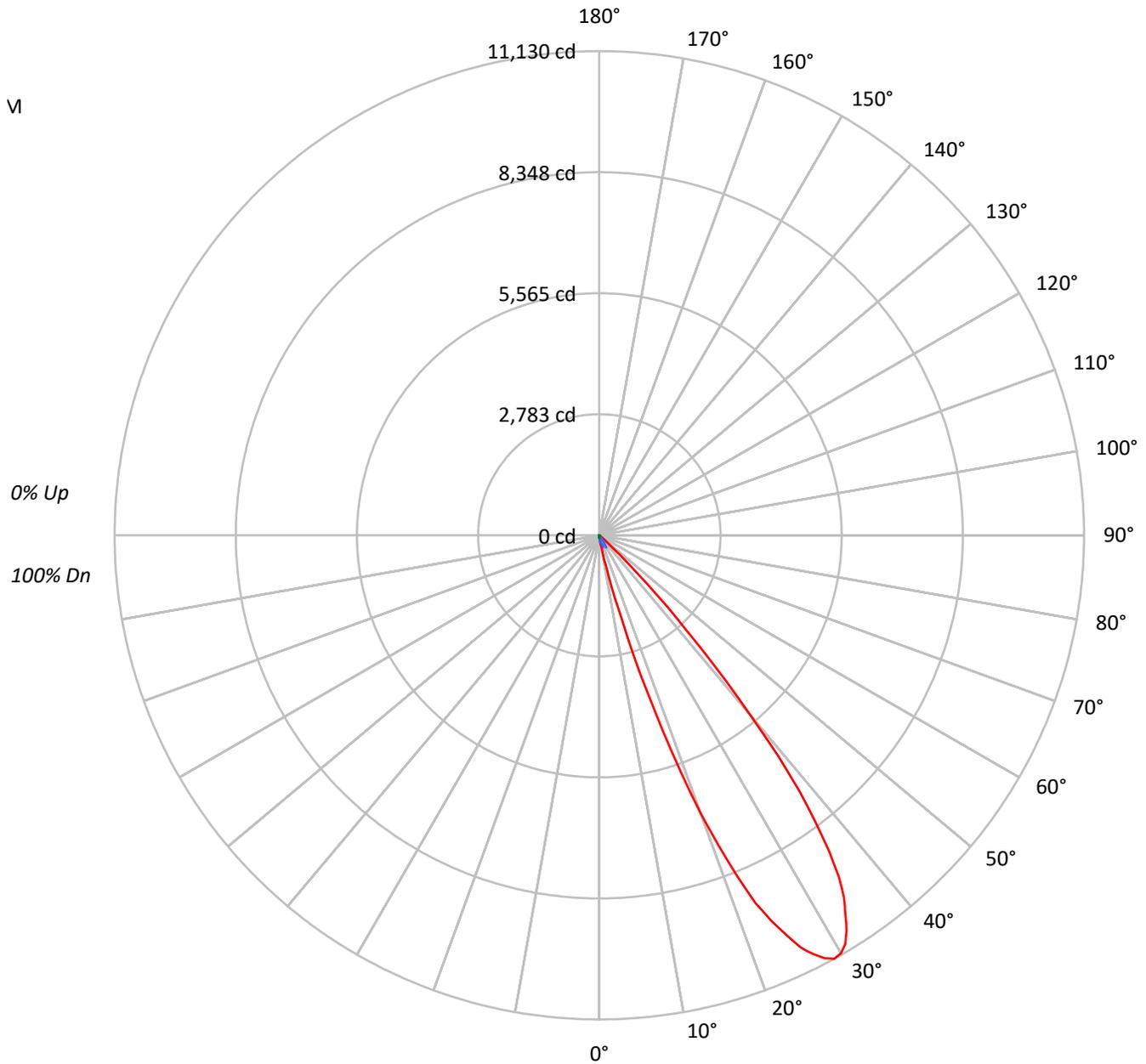
Test Method: LM-79-2019  
Report Number: P1318609  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R209830D010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 98CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1536.0 lumens  
Efficiency: N/A  
Efficacy: 56.1 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): 27.4  
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°



TEST NUMBER: P1318609

CATALOG NUMBER: LDSQA3D20R209830D010 3LSQCA30R 1MMS

**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	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	98	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	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68			68
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			61
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55			55
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	50			50
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	45			45
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36			36

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

	0°	45°	90°	135°	180°
0°	9472	9472	9472	9472	9472
5°	20607	14522	8713	3959	2904
10°	51292	25655	6138	804	0
15°	360893	35143	3548	0	0
20°	1247281	59070	1393	0	0
25°	1922557	75479	589	0	0
30°	2206712	58327	0	0	0
35°	2015346	22160	0	0	0
40°	1208209	10297	0	0	0
45°	296899	4847	0	0	0
50°	32741	1232	0	0	0
55°	4594	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: 1°  
 Vertical Angle: 45°  
 Luminance: 316627 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.2	0.4
10°-20°	120.0	7.8
20°-30°	606.8	39.5
30°-40°	656.5	42.7
40°-50°	138.7	9.0
50°-60°	4.2	0.3
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°	733.0	47.7
0°-40°	1389.5	90.5
0°-60°	1532.3	99.8
0°-90°	1536.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1536.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	55	55	55	55	55	
5°	119	84	50	23	17	17
15°	2024	197	20	0	0	844
25°	10117	397	3	0	0	4573
35°	9586	105	0	0	0	5652
45°	1219	20	0	0	0	1341
55°	15	0	2	0	0	27
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°	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
2.5°	74.9	73.3	74.9	73.3	74.9	74.9	74.9	73.3	73.3	73.3	73.3
5°	119.2	119.2	117.6	119.2	119.2	119.2	119.2	117.6	117.6	116.1	116.1
7.5°	187.9	187.9	186.4	186.4	187.9	189.4	183.3	186.4	186.4	186.4	184.8
10°	293.3	299.4	293.3	300.9	294.8	290.2	297.9	290.2	290.2	288.7	284.1
12.5°	739.4	722.6	711.9	685.9	711.9	692.0	696.6	692.0	676.7	656.9	644.6
15°	2024.1	2024.1	1964.5	2043.9	1985.9	2007.3	1897.3	1898.8	1842.3	1781.2	1747.6
17.5°	4231.5	4269.7	4229.9	4205.5	4153.6	4078.7	4048.2	3970.2	3867.9	3748.7	3735.0
20°	6805.5	6645.1	6719.9	6651.2	6608.4	6516.8	6414.4	6350.3	6260.1	6108.9	5885.9
21°	7615.1	7609.0	7607.5	7606.0	7543.3	7393.6	7300.4	7172.1	7045.3	6889.5	6703.1
22°	8430.9	8459.9	8472.1	8383.5	8255.2	8188.0	8123.8	7948.1	7748.0	7667.1	7445.6
23°	9179.4	9151.9	9072.5	9031.2	8931.9	8912.1	8721.1	8609.6	8414.1	8325.5	8062.7
24°	9689.6	9675.9	9639.2	9578.1	9498.7	9376.4	9261.9	9086.2	8925.8	8780.7	8536.3
25°	10117.3	10129.6	10062.3	10021.1	9935.5	9798.1	9657.5	9465.0	9315.3	9145.8	8863.2
26°	10540.5	10454.9	10401.5	10340.4	10247.2	10089.8	9953.9	9781.3	9599.5	9410.1	9133.6
27°	10801.7	10725.3	10644.4	10584.8	10477.8	10328.1	10183.0	9992.1	9788.9	9597.9	9313.8
28°	11007.9	10923.9	10844.5	10772.7	10650.5	10490.1	10315.9	10121.9	9911.1	9714.0	9423.8
29°	11130.1	11030.8	10945.3	10864.3	10752.8	10578.7	10403.0	10195.2	9992.1	9785.8	9489.5
30°	11096.5	11011.0	10928.5	10846.0	10733.0	10569.5	10395.4	10196.8	9992.1	9788.9	9488.0
31°	10965.2	10859.8	10800.2	10717.7	10619.9	10453.4	10303.7	10086.8	9901.9	9682.0	9381.0
32°	10713.1	10645.9	10566.5	10502.3	10407.6	10230.4	10083.7	9906.5	9688.1	9507.8	9191.6
33°	10370.9	10308.3	10268.6	10193.7	10102.1	9979.9	9804.2	9642.2	9396.3	9211.5	8895.2
34°	10044.0	9964.6	9865.3	9843.9	9764.5	9607.1	9448.2	9283.3	9063.3	8828.0	8508.8
35°	9585.7	9503.2	9411.6	9419.2	9324.5	9141.2	8979.3	8794.4	8585.1	8308.6	8006.2
36°	8973.2	8918.2	8904.4	8867.8	8759.3	8540.8	8386.6	8154.4	7978.7	7641.1	7381.4
37°	8226.2	8246.0	8146.7	8099.4	7972.6	7819.8	7732.7	7434.9	7230.2	6976.6	6625.2
38°	7471.5	7442.5	7324.9	7353.9	7179.7	7020.9	6774.9	6597.7	6368.6	6133.3	5852.3
39°	6529.0	6457.2	6316.7	6322.8	6191.4	6012.7	5774.4	5565.1	5427.6	5201.5	4932.6
40°	5374.1	5343.6	5294.7	5213.7	5041.1	4963.2	4750.9	4524.8	4408.7	4095.5	3964.1
42.5°	2981.9	2940.6	2858.2	2829.1	2737.5	2645.8	2522.1	2370.8	2297.5	2204.3	1996.6
45°	1219.0	1300.0	1280.1	1257.2	1186.9	1191.5	1102.9	1113.6	1032.7	977.7	939.5
47.5°	268.9	291.8	293.3	282.6	293.3	284.1	279.6	271.9	273.4	278.0	267.3
50°	122.2	120.7	123.7	122.2	120.7	119.2	117.6	113.0	116.1	113.0	110.0
52.5°	47.4	48.9	48.9	45.8	47.4	47.4	47.4	45.8	45.8	45.8	45.8
55°	15.3	15.3	15.3	13.7	13.7	15.3	15.3	15.3	15.3	15.3	13.7
57.5°	1.5	3.1	1.5	3.1	1.5	1.5	1.5	1.5	1.5	3.1	3.1
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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CATALOG NUMBER: LDSQA3D20R209830D010 3LSQCA30R 1MMS

**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°	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
2.5°	70.3	64.2	59.6	55.0	45.8	38.2	35.1	35.1
5°	108.5	84.0	62.6	50.4	35.1	22.9	18.3	16.8
7.5°	163.5	113.0	65.7	42.8	22.9	12.2	7.6	6.1
10°	236.8	146.7	68.7	35.1	13.7	4.6	0.0	0.0
12.5°	414.0	175.7	68.7	27.5	6.1	0.0	0.0	0.0
15°	948.6	197.1	65.7	19.9	1.5	0.0	0.0	0.0
17.5°	1970.6	247.5	58.0	13.7	0.0	0.0	0.0	0.0
20°	3146.9	322.3	45.8	7.6	0.0	0.0	0.0	0.0
21°	3631.1	348.3	41.2	6.1	0.0	0.0	0.0	0.0
22°	3979.4	372.7	36.7	4.6	0.0	0.0	0.0	0.0
23°	4362.8	388.0	32.1	3.1	0.0	0.0	0.0	0.0
24°	4645.4	397.2	27.5	3.1	0.0	0.0	0.0	0.0
25°	4821.1	397.2	24.4	3.1	0.0	0.0	0.0	0.0
26°	4925.0	388.0	21.4	1.5	0.0	0.0	0.0	0.0
27°	4949.4	372.7	18.3	1.5	0.0	0.0	0.0	0.0
28°	4918.9	352.9	15.3	0.0	0.0	0.0	0.0	0.0
29°	4822.7	323.9	13.7	0.0	0.0	0.0	0.0	0.0
30°	4718.8	293.3	10.7	0.0	0.0	0.0	0.0	0.0
31°	4541.6	252.1	9.2	0.0	0.0	0.0	0.0	0.0
32°	4336.9	209.3	7.6	0.0	0.0	0.0	0.0	0.0
33°	4063.4	165.0	6.1	0.0	0.0	0.0	0.0	0.0
34°	3660.1	129.8	6.1	0.0	0.0	0.0	0.0	0.0
35°	3298.1	105.4	4.6	0.0	0.0	0.0	0.0	0.0
36°	2824.5	84.0	4.6	0.0	0.0	0.0	0.0	0.0
37°	2419.7	70.3	4.6	0.0	0.0	0.0	0.0	0.0
38°	2025.6	59.6	3.1	0.0	0.0	0.0	0.0	0.0
39°	1643.7	51.9	3.1	0.0	0.0	0.0	0.0	0.0
40°	1310.7	45.8	3.1	0.0	0.0	0.0	0.0	0.0
42.5°	707.3	30.6	0.0	0.0	0.0	0.0	0.0	0.0
45°	391.1	19.9	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	172.6	10.7	0.0	0.0	0.0	0.0	0.0	0.0
50°	58.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	29.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	13.7	0.0	0.0	1.5	0.0	0.0	0.0	0.0
57.5°	3.1	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	1.5	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)