

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: P1319486

Luminaire Tested: LDSQA3D20R209835D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

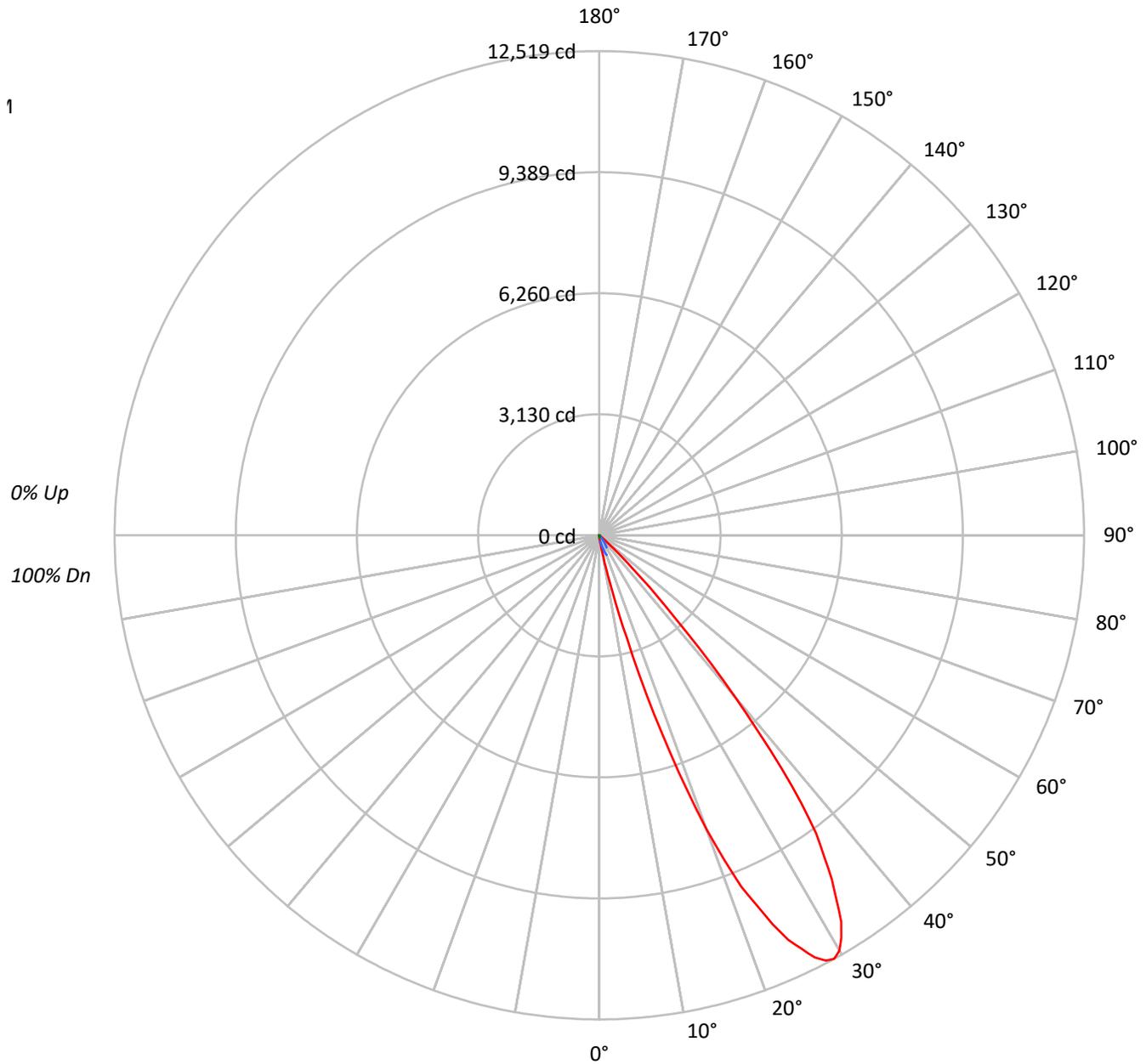
Test Method: LM-79-2019  
Report Number: P1319486  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R209835D010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1756.1 lumens  
Efficiency: N/A  
Efficacy: 64.1 lumens/watt  
Spacing Criteria (0/90/45): 2.3 / 0.54 / 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 (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				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°	10419	10419	10419	10419	10419
5°	23961	17910	9923	6051	5238
10°	75495	31198	8079	3340	2501
15°	489125	57662	5973	1141	285
20°	1476248	98694	4087	0	0
25°	2192395	99593	2413	0	0
30°	2465456	75728	955	0	0
35°	2127217	45224	673	0	0
40°	1224913	15400	0	0	0
45°	298775	6211	390	0	390
50°	35849	1715	429	429	1286
55°	4774	0	961	961	1922
60°	551	0	1653	1653	2756
65°	652	652	2608	2608	3912
70°	806	806	3223	3223	4028
75°	0	1065	4259	3194	4259
80°	0	1587	4761	3174	4761
85°	0	3162	9485	3162	3162

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2.5°  
 Vertical Angle: 45°  
 Luminance: 300723 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8.1	0.5
10°-20°	162.7	9.3
20°-30°	709.3	40.4
30°-40°	714.3	40.7
40°-50°	143.3	8.2
50°-60°	7.2	0.4
60°-70°	4.8	0.3
70°-80°	4.2	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°	880.2	50.1
0°-40°	1594.5	90.8
0°-60°	1745.0	99.4
0°-90°	1756.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1756.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	60	60	60	60	60	
5°	139	104	57	35	30	22
15°	2743	323	34	6	2	1075
25°	11537	524	13	0	0	5202
35°	10118	215	3	0	0	6020
45°	1227	26	2	0	2	1336
55°	16	0	3	3	6	30
65°	2	2	6	6	10	2
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°	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
2.5°	90.8	90.8	89.2	89.2	87.6	89.2	86.0	87.6	87.6	86.0	78.1
5°	138.6	141.8	140.2	140.2	138.6	140.2	137.0	133.8	130.6	130.6	103.6
7.5°	227.8	226.2	223.0	224.6	219.8	216.7	213.5	211.9	202.3	197.5	135.4
10°	431.7	441.3	433.3	431.7	403.1	401.5	382.3	355.3	331.4	318.6	178.4
12.5°	1188.5	1239.4	1159.8	1121.5	1099.2	1013.2	976.6	882.6	791.8	723.3	226.2
15°	2743.3	2869.2	2708.3	2719.4	2585.6	2340.3	2125.2	1940.4	1722.1	1502.3	323.4
17.5°	5375.1	5273.2	5185.6	5037.4	4765.0	4404.9	3941.3	3471.4	3065.1	2639.8	450.8
20°	8054.8	7963.9	7764.8	7441.4	7094.1	6560.4	6009.2	5303.5	4620.0	3979.6	538.5
21°	8977.2	8946.9	8620.3	8421.2	7885.9	7376.1	6740.4	5985.3	5215.8	4457.5	552.8
22°	9800.8	9619.2	9443.9	9149.2	8617.1	8062.7	7355.4	6560.4	5725.6	4882.9	554.4
23°	10371.1	10288.3	10122.6	9789.6	9260.7	8609.2	7863.6	7032.0	6152.6	5184.0	549.6
24°	11002.0	10896.9	10654.7	10266.0	9732.3	9088.7	8238.0	7412.7	6456.9	5437.3	536.9
25°	11537.3	11373.2	11086.4	10667.5	10084.4	9420.0	8564.5	7658.1	6668.8	5607.7	524.1
26°	11884.6	11795.4	11427.4	10971.7	10347.2	9662.2	8789.2	7846.1	6805.8	5685.8	503.4
27°	12246.2	12082.1	11720.5	11196.4	10519.3	9819.9	8916.6	7936.9	6853.6	5689.0	477.9
28°	12453.3	12274.9	11865.5	11314.3	10630.8	9907.5	8989.9	7965.5	6844.0	5639.6	447.7
29°	12518.6	12294.0	11894.1	11333.4	10657.9	9913.9	8978.8	7924.1	6759.6	5518.5	412.6
30°	12397.6	12168.2	11789.0	11242.6	10571.9	9834.3	8875.2	7787.1	6609.8	5344.9	380.8
31°	12133.1	11938.8	11572.3	11024.3	10380.7	9647.9	8641.0	7562.5	6354.9	5112.3	344.1
32°	11784.2	11593.0	11233.0	10737.5	10082.8	9343.6	8320.8	7212.0	6055.4	4765.0	307.5
33°	11260.1	11150.2	10826.8	10353.6	9698.8	8908.7	7890.7	6793.0	5628.5	4379.5	275.6
34°	10729.6	10591.0	10364.8	9847.0	9142.8	8354.3	7329.9	6214.7	5107.5	3947.7	245.3
35°	10117.8	10035.0	9679.7	9265.5	8558.2	7752.1	6734.1	5652.3	4500.5	3466.6	215.1
36°	9525.2	9397.7	8993.1	8555.0	7868.4	6996.9	5991.7	4975.3	3976.4	3015.8	183.2
37°	8664.9	8470.6	8182.2	7720.2	6917.3	6174.9	5257.3	4314.1	3331.2	2528.3	148.2
38°	7653.3	7562.5	7162.6	6697.4	6033.1	5328.9	4420.9	3621.1	2748.1	2110.9	113.1
39°	6460.1	6458.5	6076.1	5740.0	5090.0	4455.9	3637.1	2939.3	2268.6	1699.8	87.6
40°	5448.4	5260.4	5024.7	4602.5	4103.8	3565.4	2848.5	2300.4	1760.4	1370.1	68.5
42.5°	2856.4	2840.5	2701.9	2384.9	2106.1	1789.1	1422.6	1185.3	927.2	755.1	43.0
45°	1226.7	1234.7	1139.1	1091.3	982.9	850.7	718.5	599.0	513.0	415.8	25.5
47.5°	310.7	297.9	294.7	305.9	305.9	296.3	266.0	250.1	231.0	211.9	14.3
50°	133.8	130.6	127.4	127.4	119.5	114.7	106.7	97.2	89.2	79.7	6.4
52.5°	49.4	51.0	52.6	51.0	51.0	49.4	49.4	47.8	43.0	38.2	3.2
55°	15.9	15.9	15.9	17.5	17.5	19.1	19.1	19.1	19.1	17.5	0.0
57.5°	3.2	3.2	4.8	4.8	4.8	4.8	4.8	4.8	6.4	6.4	0.0
60°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0
62.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
65°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
67.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
70°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
72.5°	1.6	0.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
75°	0.0	0.0	0.0	1.6	0.0	1.6	1.6	0.0	1.6	1.6	1.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6



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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	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
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°	60.5	60.5	60.5	60.5	60.5	60.5
2.5°	70.1	62.1	52.6	44.6	43.0	41.4
5°	78.1	57.4	43.0	35.0	31.9	30.3
7.5°	84.4	52.6	35.0	25.5	22.3	20.7
10°	87.6	46.2	28.7	19.1	14.3	14.3
12.5°	89.2	39.8	20.7	12.7	8.0	8.0
15°	87.6	33.5	15.9	6.4	1.6	1.6
17.5°	79.7	27.1	9.6	1.6	0.0	0.0
20°	68.5	22.3	6.4	0.0	0.0	0.0
21°	65.3	19.1	4.8	0.0	0.0	0.0
22°	60.5	17.5	3.2	0.0	0.0	0.0
23°	55.8	15.9	3.2	0.0	0.0	0.0
24°	51.0	14.3	1.6	0.0	0.0	0.0
25°	47.8	12.7	1.6	0.0	0.0	0.0
26°	44.6	11.2	1.6	0.0	0.0	0.0
27°	39.8	9.6	0.0	0.0	0.0	0.0
28°	36.6	8.0	0.0	0.0	0.0	0.0
29°	31.9	6.4	0.0	0.0	0.0	0.0
30°	27.1	4.8	0.0	0.0	0.0	0.0
31°	22.3	4.8	0.0	0.0	0.0	0.0
32°	19.1	3.2	0.0	0.0	0.0	0.0
33°	15.9	3.2	0.0	0.0	0.0	0.0
34°	14.3	3.2	0.0	0.0	0.0	0.0
35°	12.7	3.2	0.0	0.0	0.0	0.0
36°	9.6	1.6	0.0	0.0	0.0	0.0
37°	8.0	1.6	0.0	0.0	0.0	0.0
38°	6.4	1.6	0.0	0.0	0.0	0.0
39°	4.8	0.0	0.0	0.0	0.0	0.0
40°	4.8	0.0	0.0	0.0	0.0	0.0
42.5°	1.6	0.0	0.0	0.0	0.0	0.0
45°	0.0	1.6	0.0	0.0	1.6	1.6
47.5°	0.0	1.6	0.0	0.0	1.6	3.2
50°	0.0	1.6	1.6	1.6	3.2	4.8
52.5°	0.0	3.2	1.6	1.6	4.8	4.8
55°	1.6	3.2	1.6	3.2	6.4	6.4
57.5°	1.6	3.2	3.2	4.8	6.4	8.0
60°	3.2	4.8	4.8	4.8	8.0	8.0
62.5°	3.2	4.8	6.4	6.4	8.0	9.6
65°	3.2	6.4	6.4	6.4	8.0	9.6
67.5°	4.8	6.4	6.4	6.4	8.0	9.6
70°	4.8	6.4	6.4	6.4	8.0	8.0
72.5°	4.8	6.4	4.8	6.4	6.4	8.0
75°	4.8	6.4	4.8	4.8	6.4	6.4
77.5°	3.2	4.8	4.8	3.2	4.8	4.8
80°	3.2	4.8	3.2	3.2	4.8	4.8



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**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	3.2	4.8	3.2	1.6	3.2	3.2
85°	3.2	4.8	3.2	1.6	1.6	1.6
87.5°	3.2	4.8	3.2	1.6	0.0	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)