

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: P1319324

Luminaire Tested: LDSQA3D17R159835DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

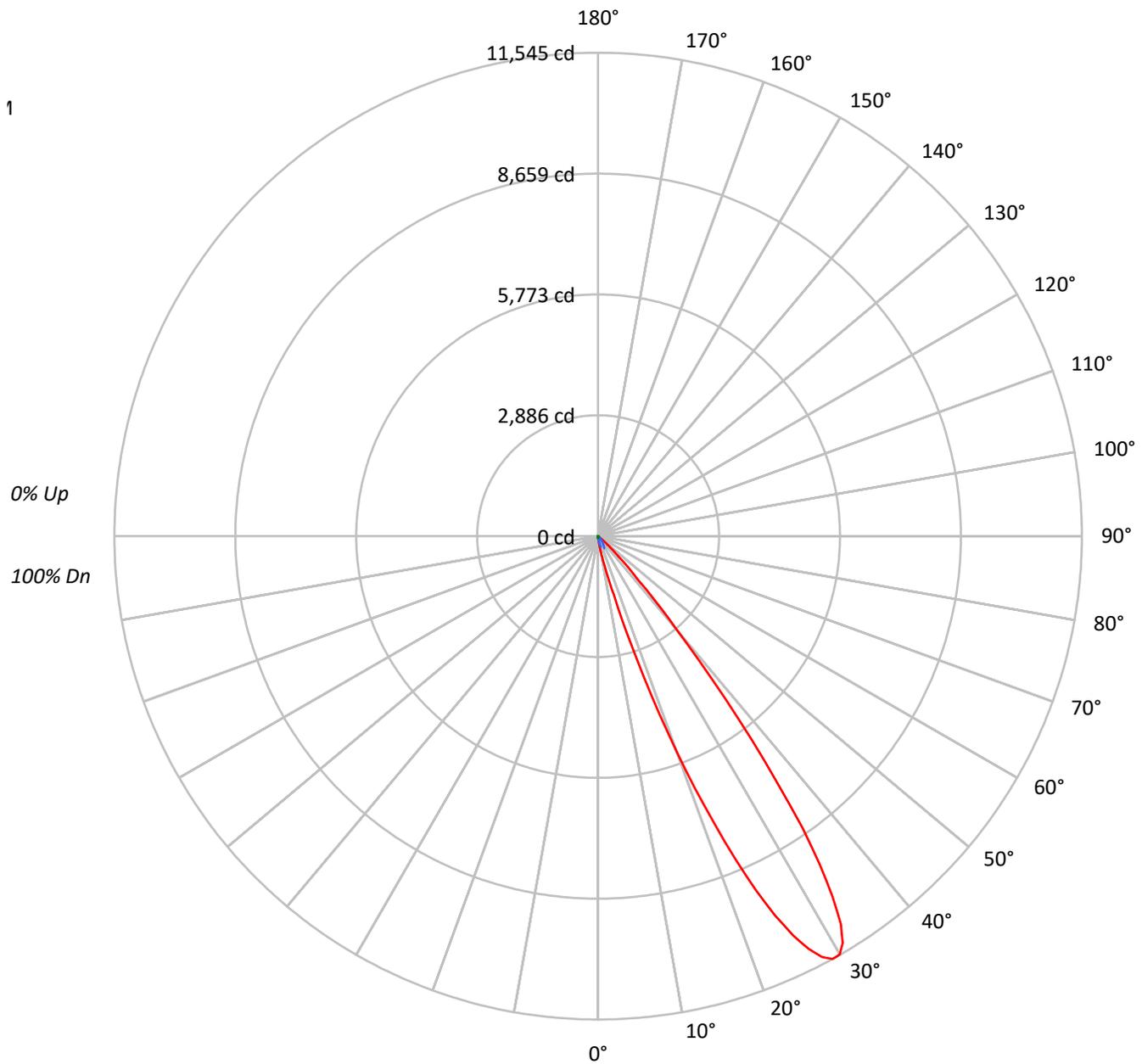
Test Method: LM-79-2019  
Report Number: P1319324  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R159835DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1261.0 lumens  
Efficiency: N/A  
Efficacy: 61.8 lumens/watt  
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 20.4  
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				
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	75	71	79	74	70	77	73	70	77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	71	66	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	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	42	51	46	42	41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	47	42	39	37

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

	0°	45°	90°	135°	180°
0°	7182	7182	7182	7182	7182
5°	15473	11445	6794	3613	2974
10°	68640	21668	5369	1504	1067
15°	259602	50084	3726	660	446
20°	998393	70598	2254	220	220
25°	1898556	66205	1159	0	0
30°	2293477	53415	497	0	0
35°	1788744	36372	252	0	0
40°	652744	17918	270	0	270
45°	167593	5383	292	0	609
50°	28267	670	322	322	991
55°	3693	0	751	1111	1832
60°	413	413	1274	1688	2549
65°	489	489	1997	2486	3016
70°	604	604	2467	2467	3072
75°	799	799	3261	2462	3261
80°	0	1190	3670	2479	3670
85°	0	2371	7311	2371	2371

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 167593 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.7	0.5
10°-20°	96.6	7.7
20°-30°	535.9	42.5
30°-40°	517.8	41.1
40°-50°	90.1	7.1
50°-60°	6.5	0.5
60°-70°	3.8	0.3
70°-80°	3.1	0.2
80°-90°	1.6	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°	638.3	50.6
0°-40°	1156.0	91.7
0°-60°	1252.6	99.3
0°-90°	1261.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1261.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	42	42	42	42	42	
5°	90	66	39	21	17	18
15°	1456	281	21	4	2	649
25°	9991	348	6	0	0	4467
35°	8508	173	1	0	0	4893
45°	688	22	1	0	2	739
55°	12	0	2	4	6	24
65°	1	1	5	6	7	1
75°	1	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°	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7
2.5°	61.3	58.9	60.1	60.1	60.1	60.1	60.1	57.7	57.7	58.9	52.7
5°	89.5	89.5	88.3	89.5	89.5	88.3	85.9	84.6	84.6	82.2	66.2
7.5°	179.1	176.6	176.6	174.2	161.9	158.2	155.8	149.6	138.6	136.2	85.9
10°	392.5	393.8	385.2	374.1	372.9	354.5	348.4	337.3	316.5	295.6	123.9
12.5°	712.7	696.7	675.9	677.1	641.5	629.3	601.1	570.4	538.5	505.4	203.6
15°	1456.0	1410.6	1437.6	1371.4	1296.6	1211.9	1126.1	1018.1	926.1	828.0	280.9
17.5°	3066.6	3110.7	3035.9	2752.6	2578.4	2373.5	2085.3	1806.8	1568.9	1377.5	343.5
20°	5447.5	5512.5	5258.6	5012.0	4588.8	4127.6	3646.8	3102.2	2580.8	2129.4	385.2
21°	6442.3	6403.0	6298.8	5903.8	5415.6	4880.8	4292.0	3690.9	3059.2	2472.9	388.8
22°	7404.0	7422.4	7179.5	6766.1	6258.3	5665.8	4947.0	4204.9	3524.1	2752.6	382.7
23°	8362.0	8420.9	8099.5	7711.9	7072.8	6404.3	5572.6	4771.6	3930.1	3072.7	370.4
24°	9248.8	9208.4	8991.2	8503.0	7819.8	7037.2	6173.7	5202.2	4263.8	3346.3	360.6
25°	9991.0	9986.0	9645.0	9170.3	8389.0	7521.7	6569.9	5554.2	4549.6	3531.5	348.4
26°	10598.1	10498.8	10230.1	9651.2	8879.6	7964.5	6894.9	5810.6	4710.3	3624.7	336.1
27°	11066.7	10995.6	10634.9	10032.7	9226.8	8214.8	7103.4	5938.1	4783.9	3655.4	320.2
28°	11382.0	11304.7	10920.7	10300.1	9418.1	8371.8	7213.8	5992.1	4783.9	3625.9	305.4
29°	11545.1	11439.6	11056.9	10392.1	9462.3	8390.2	7186.9	5939.4	4709.1	3535.2	288.3
30°	11532.8	11401.6	11000.5	10308.6	9331.0	8239.3	7036.0	5749.2	4539.8	3400.2	268.6
31°	11334.1	11186.9	10739.2	10026.5	9059.9	7954.7	6751.4	5494.1	4307.9	3224.8	249.0
32°	10930.6	10744.1	10307.4	9597.2	8642.9	7529.1	6338.0	5100.4	3960.8	2968.5	228.2
33°	10273.1	10085.4	9616.8	8950.8	8078.6	6989.4	5789.7	4677.2	3565.8	2663.0	211.0
34°	9450.0	9278.3	8874.7	8203.7	7367.2	6306.1	5159.2	4092.1	3156.1	2360.0	192.6
35°	8507.9	8234.4	7868.9	7337.7	6522.0	5454.9	4478.4	3547.4	2734.2	2042.3	173.0
36°	7233.5	7282.5	6894.9	6244.8	5568.9	4732.4	3795.2	2957.4	2286.4	1740.6	155.8
37°	6103.7	6026.5	5779.9	5277.0	4688.2	3857.8	3180.7	2507.2	1923.4	1472.0	137.4
38°	4923.7	4940.9	4699.2	4312.9	3729.0	3172.1	2560.0	2059.5	1609.3	1252.4	120.2
39°	3854.1	3840.6	3775.6	3417.4	2888.7	2523.2	2074.2	1707.5	1340.7	1056.1	101.8
40°	2903.4	2925.5	2773.4	2557.5	2249.7	1949.1	1652.3	1361.6	1108.9	890.5	79.7
42.5°	1411.9	1446.2	1345.6	1290.4	1154.3	1036.5	874.6	713.9	607.2	525.0	35.6
45°	688.1	668.5	659.9	632.9	601.1	537.3	475.9	408.5	357.0	307.9	22.1
47.5°	352.0	342.2	342.2	331.2	320.2	299.3	268.6	246.6	222.0	191.4	8.6
50°	105.5	104.3	103.0	104.3	100.6	104.3	106.7	107.9	98.1	96.9	2.5
52.5°	41.7	42.9	41.7	45.4	45.4	44.2	45.4	44.2	42.9	38.0	0.0
55°	12.3	12.3	12.3	12.3	12.3	12.3	13.5	14.7	13.5	14.7	0.0
57.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0.0
60°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.0	1.2
62.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
65°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
67.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
70°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
75°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2



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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	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
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°	41.7	41.7	41.7	41.7	41.7	41.7
2.5°	49.1	42.9	35.6	29.4	27.0	25.8
5°	52.7	39.3	27.0	20.9	18.4	17.2
7.5°	56.4	35.6	20.9	14.7	11.0	9.8
10°	58.9	30.7	15.9	8.6	6.1	6.1
12.5°	58.9	24.5	11.0	4.9	3.7	3.7
15°	57.7	20.9	7.4	3.7	2.5	2.5
17.5°	56.4	15.9	4.9	2.5	1.2	2.5
20°	52.7	12.3	2.5	1.2	1.2	1.2
21°	51.5	11.0	2.5	1.2	1.2	1.2
22°	49.1	9.8	1.2	0.0	1.2	1.2
23°	46.6	7.4	1.2	0.0	0.0	0.0
24°	42.9	6.1	1.2	0.0	0.0	0.0
25°	40.5	6.1	1.2	0.0	0.0	0.0
26°	38.0	3.7	0.0	0.0	0.0	0.0
27°	34.3	2.5	0.0	0.0	0.0	0.0
28°	31.9	2.5	0.0	0.0	0.0	0.0
29°	28.2	2.5	0.0	0.0	0.0	0.0
30°	24.5	2.5	0.0	0.0	0.0	0.0
31°	19.6	1.2	0.0	0.0	0.0	0.0
32°	15.9	1.2	0.0	0.0	0.0	0.0
33°	11.0	1.2	0.0	0.0	0.0	0.0
34°	7.4	1.2	0.0	0.0	0.0	0.0
35°	6.1	1.2	0.0	0.0	0.0	0.0
36°	3.7	1.2	0.0	0.0	0.0	1.2
37°	3.7	1.2	0.0	0.0	0.0	1.2
38°	2.5	1.2	0.0	0.0	0.0	1.2
39°	1.2	1.2	0.0	0.0	0.0	1.2
40°	1.2	1.2	0.0	0.0	0.0	1.2
42.5°	0.0	1.2	0.0	0.0	1.2	2.5
45°	0.0	1.2	0.0	0.0	1.2	2.5
47.5°	0.0	1.2	0.0	0.0	2.5	2.5
50°	0.0	1.2	1.2	1.2	2.5	3.7
52.5°	0.0	2.5	1.2	2.5	3.7	4.9
55°	1.2	2.5	2.5	3.7	4.9	6.1
57.5°	1.2	3.7	3.7	4.9	6.1	6.1
60°	2.5	3.7	4.9	4.9	7.4	7.4
62.5°	2.5	4.9	4.9	4.9	7.4	7.4
65°	2.5	4.9	4.9	6.1	7.4	7.4
67.5°	2.5	4.9	4.9	4.9	6.1	7.4
70°	2.5	4.9	3.7	4.9	6.1	6.1
72.5°	2.5	4.9	3.7	3.7	4.9	6.1
75°	2.5	4.9	3.7	3.7	4.9	4.9
77.5°	2.5	3.7	3.7	2.5	3.7	3.7
80°	2.5	3.7	2.5	2.5	3.7	3.7



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	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	2.5	3.7	2.5	1.2	2.5	2.5
85°	2.5	3.7	2.5	1.2	1.2	1.2
87.5°	2.5	3.7	1.2	0.0	0.0	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)