

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: P1313926

Luminaire Tested: LDSQA3D20R159727D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

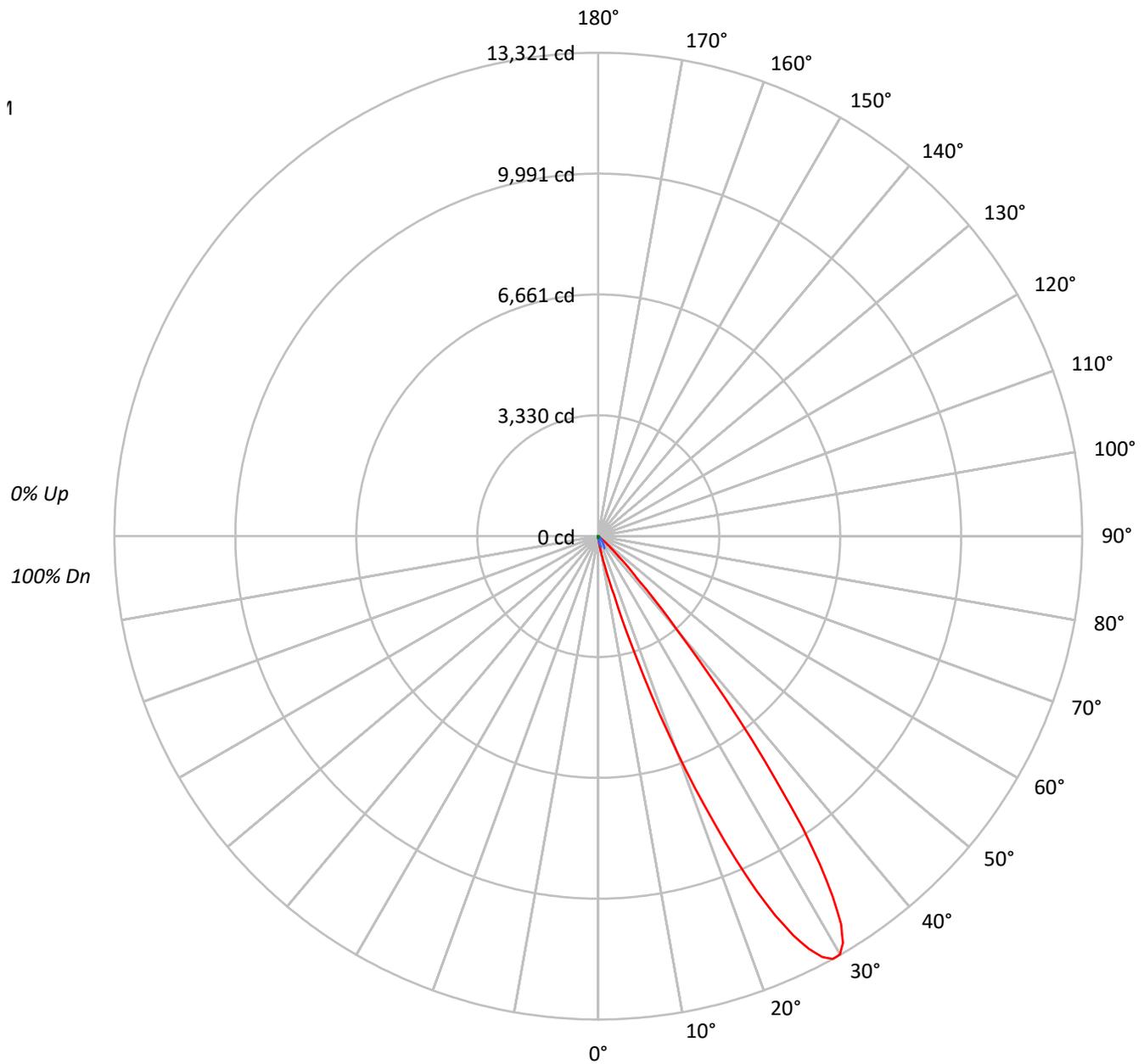
Test Method: LM-79-2019  
Report Number: P1313926  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R159727D010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1454.9 lumens  
Efficiency: N/A  
Efficacy: 50.5 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): 28.8  
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	100				
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92				
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83				
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75				
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68				
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61				
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55				
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50				
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45				
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41				
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37				

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

	0°	45°	90°	135°	180°
0°	8284	8284	8284	8284	8284
5°	17859	13208	7831	4166	3423
10°	79203	25008	6191	1731	1242
15°	299541	57786	4297	749	499
20°	1151997	81448	2603	257	257
25°	2190627	76391	1349	0	0
30°	2646324	61648	557	0	0
35°	2063954	41965	294	0	0
40°	753172	20684	315	0	315
45°	193386	6211	341	0	682
50°	32607	750	375	375	1125
55°	4264	0	841	1261	2132
60°	482	482	1447	1963	2928
65°	571	571	2323	2893	3464
70°	705	705	2870	2870	3575
75°	932	932	3793	2795	3793
80°	0	1389	4166	2777	4166
85°	0	2766	8299	2766	2766

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 193386 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.6	0.5
10°-20°	111.5	7.7
20°-30°	618.4	42.5
30°-40°	597.4	41.1
40°-50°	103.9	7.1
50°-60°	7.4	0.5
60°-70°	4.4	0.3
70°-80°	3.6	0.2
80°-90°	1.8	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°	736.5	50.6
0°-40°	1333.9	91.7
0°-60°	1445.2	99.3
0°-90°	1454.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1454.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	48	48	48	48	48	
5°	103	76	45	24	20	20
15°	1680	324	24	4	3	749
25°	11528	402	7	0	0	5154
35°	9817	200	1	0	0	5646
45°	794	26	1	0	3	853
55°	14	0	3	4	7	27
65°	1	1	6	7	8	1
75°	1	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°	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
2.5°	70.8	67.9	69.4	69.4	69.4	69.4	69.4	66.5	66.5	67.9	60.9
5°	103.3	103.3	101.9	103.3	103.3	101.9	99.1	97.7	97.7	94.8	76.4
7.5°	206.6	203.8	203.8	201.0	186.8	182.6	179.7	172.7	159.9	157.1	99.1
10°	452.9	454.3	444.4	431.7	430.3	409.0	402.0	389.2	365.2	341.1	143.0
12.5°	822.3	803.9	779.9	781.3	740.2	726.1	693.5	658.1	621.3	583.1	234.9
15°	1680.0	1627.7	1658.8	1582.4	1496.0	1398.4	1299.3	1174.7	1068.6	955.4	324.1
17.5°	3538.4	3589.3	3503.0	3176.0	2975.1	2738.7	2406.1	2084.8	1810.2	1589.4	396.3
20°	6285.6	6360.6	6067.6	5783.1	5294.8	4762.7	4207.8	3579.4	2977.9	2457.0	444.4
21°	7433.4	7388.1	7267.8	6812.1	6248.8	5631.7	4952.3	4258.8	3529.9	2853.3	448.7
22°	8543.0	8564.3	8284.0	7807.1	7221.1	6537.5	5708.1	4851.8	4066.3	3176.0	441.6
23°	9648.4	9716.4	9345.6	8898.3	8160.9	7389.5	6429.9	5505.7	4534.8	3545.4	427.4
24°	10671.7	10625.0	10374.5	9811.2	9022.9	8119.9	7123.5	6002.5	4919.8	3861.1	416.1
25°	11528.0	11522.4	11128.9	10581.2	9679.6	8678.9	7580.6	6408.7	5249.5	4074.8	402.0
26°	12228.6	12114.0	11804.0	11136.0	10245.7	9189.9	7955.7	6704.5	5434.9	4182.4	387.8
27°	12769.3	12687.2	12271.1	11576.1	10646.3	9478.6	8196.3	6851.7	5519.9	4217.7	369.4
28°	13133.0	13043.9	12600.9	11884.7	10867.1	9659.8	8323.7	6914.0	5519.9	4183.8	352.4
29°	13321.3	13199.5	12758.0	11990.8	10918.0	9681.0	8292.5	6853.1	5433.5	4079.0	332.6
30°	13307.1	13155.7	12692.9	11894.6	10766.6	9506.9	8118.4	6633.7	5238.2	3923.3	310.0
31°	13077.8	12908.0	12391.4	11569.1	10453.8	9178.5	7790.1	6339.3	4970.7	3721.0	287.3
32°	12612.2	12397.0	11893.2	11073.7	9972.6	8687.4	7313.1	5885.0	4570.2	3425.1	263.3
33°	11853.5	11637.0	11096.3	10327.8	9321.5	8064.7	6680.4	5396.7	4114.4	3072.7	243.4
34°	10903.9	10705.7	10240.1	9465.9	8500.6	7276.3	5953.0	4721.6	3641.7	2723.1	222.2
35°	9816.9	9501.2	9079.5	8466.6	7525.4	6294.1	5167.4	4093.2	3154.8	2356.6	199.6
36°	8346.3	8402.9	7955.7	7205.5	6425.7	5460.4	4379.1	3412.4	2638.2	2008.4	179.7
37°	7042.8	6953.6	6669.1	6088.8	5409.5	4451.3	3670.0	2893.0	2219.3	1698.4	158.5
38°	5681.2	5701.0	5422.2	4976.4	4302.7	3660.1	2953.8	2376.4	1856.9	1445.1	138.7
39°	4447.0	4431.5	4356.4	3943.2	3333.1	2911.4	2393.4	1970.2	1547.0	1218.6	117.5
40°	3350.1	3375.6	3200.1	2951.0	2595.8	2249.0	1906.5	1571.0	1279.5	1027.5	92.0
42.5°	1629.1	1668.7	1552.6	1488.9	1331.8	1196.0	1009.1	823.7	700.6	605.8	41.0
45°	794.0	771.4	761.5	730.3	693.5	619.9	549.2	471.3	411.9	355.3	25.5
47.5°	406.2	394.9	394.9	382.1	369.4	345.3	310.0	284.5	256.2	220.8	9.9
50°	121.7	120.3	118.9	120.3	116.1	120.3	123.1	124.6	113.2	111.8	2.8
52.5°	48.1	49.5	48.1	52.4	52.4	51.0	52.4	51.0	49.5	43.9	0.0
55°	14.2	14.2	14.2	14.2	14.2	14.2	15.6	17.0	15.6	17.0	0.0
57.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	0.0
60°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0	1.4
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	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
75°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	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°	48.1	48.1	48.1	48.1	48.1	48.1
2.5°	56.6	49.5	41.0	34.0	31.1	29.7
5°	60.9	45.3	31.1	24.1	21.2	19.8
7.5°	65.1	41.0	24.1	17.0	12.7	11.3
10°	67.9	35.4	18.4	9.9	7.1	7.1
12.5°	67.9	28.3	12.7	5.7	4.2	4.2
15°	66.5	24.1	8.5	4.2	2.8	2.8
17.5°	65.1	18.4	5.7	2.8	1.4	2.8
20°	60.9	14.2	2.8	1.4	1.4	1.4
21°	59.4	12.7	2.8	1.4	1.4	1.4
22°	56.6	11.3	1.4	0.0	1.4	1.4
23°	53.8	8.5	1.4	0.0	0.0	0.0
24°	49.5	7.1	1.4	0.0	0.0	0.0
25°	46.7	7.1	1.4	0.0	0.0	0.0
26°	43.9	4.2	0.0	0.0	0.0	0.0
27°	39.6	2.8	0.0	0.0	0.0	0.0
28°	36.8	2.8	0.0	0.0	0.0	0.0
29°	32.6	2.8	0.0	0.0	0.0	0.0
30°	28.3	2.8	0.0	0.0	0.0	0.0
31°	22.6	1.4	0.0	0.0	0.0	0.0
32°	18.4	1.4	0.0	0.0	0.0	0.0
33°	12.7	1.4	0.0	0.0	0.0	0.0
34°	8.5	1.4	0.0	0.0	0.0	0.0
35°	7.1	1.4	0.0	0.0	0.0	0.0
36°	4.2	1.4	0.0	0.0	0.0	1.4
37°	4.2	1.4	0.0	0.0	0.0	1.4
38°	2.8	1.4	0.0	0.0	0.0	1.4
39°	1.4	1.4	0.0	0.0	0.0	1.4
40°	1.4	1.4	0.0	0.0	0.0	1.4
42.5°	0.0	1.4	0.0	0.0	1.4	2.8
45°	0.0	1.4	0.0	0.0	1.4	2.8
47.5°	0.0	1.4	0.0	0.0	2.8	2.8
50°	0.0	1.4	1.4	1.4	2.8	4.2
52.5°	0.0	2.8	1.4	2.8	4.2	5.7
55°	1.4	2.8	2.8	4.2	5.7	7.1
57.5°	1.4	4.2	4.2	5.7	7.1	7.1
60°	2.8	4.2	5.7	5.7	8.5	8.5
62.5°	2.8	5.7	5.7	5.7	8.5	8.5
65°	2.8	5.7	5.7	7.1	8.5	8.5
67.5°	2.8	5.7	5.7	5.7	7.1	8.5
70°	2.8	5.7	4.2	5.7	7.1	7.1
72.5°	2.8	5.7	4.2	4.2	5.7	7.1
75°	2.8	5.7	4.2	4.2	5.7	5.7
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	1.4	0.0	0.0	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)