

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: P1309347

Luminaire Tested: LDSQA3D17R159030DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

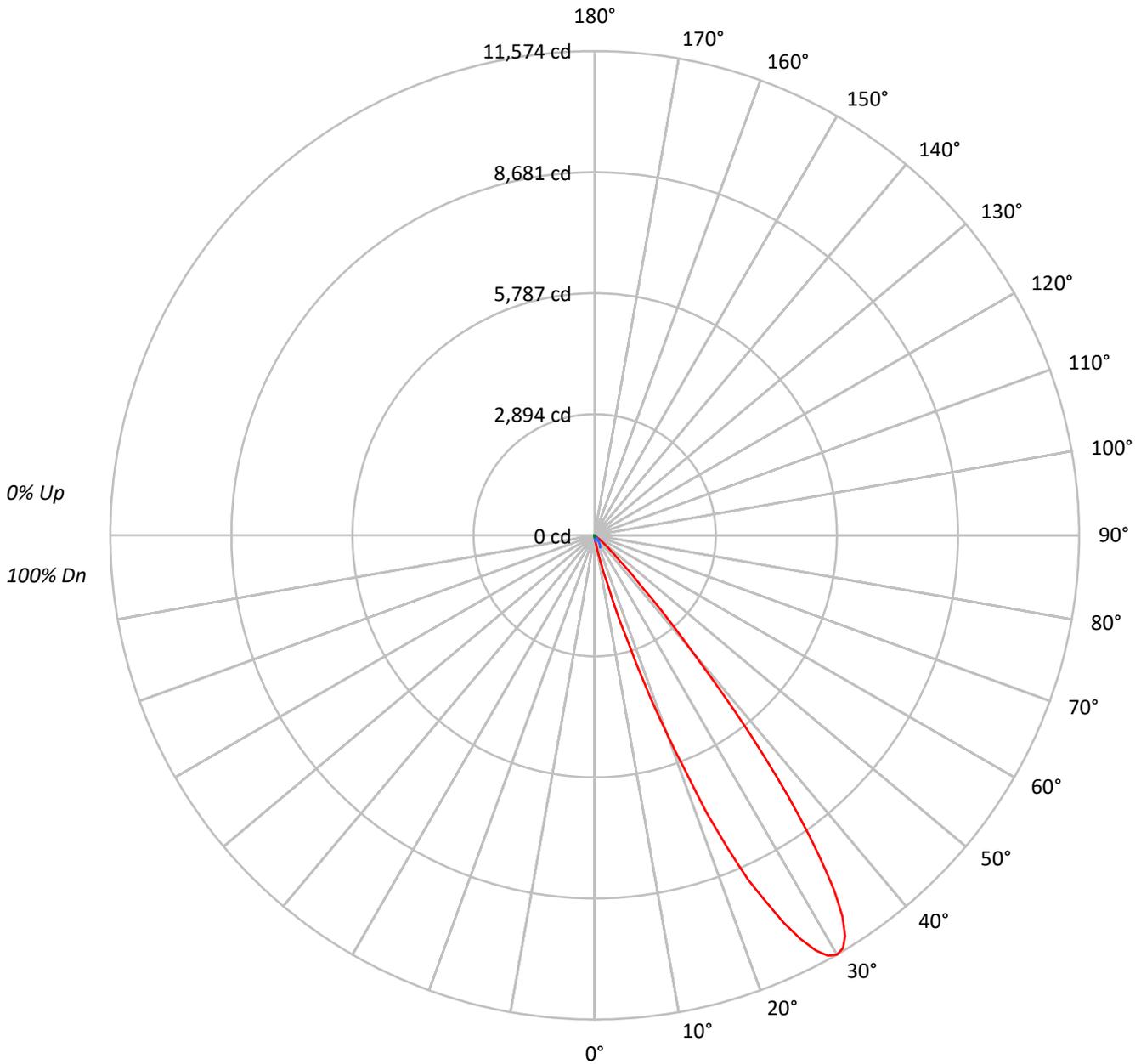
Test Method: LM-79-2019  
Report Number: P1309347  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R159030DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1224.0 lumens  
Efficiency: N/A  
Efficacy: 57.7 lumens/watt  
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17  
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				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	94	96	95	94	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	68	64	72	67	63	71	66	63	71	66	63	61
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	65	60	57	55
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	60	55	51	50
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	55	50	46	45
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	51	46	42	41
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	47	42	38	37

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

	0°	45°	90°	135°	180°
0°	7543	7543	7543	7543	7543
5°	21800	16458	6448	2662	1781
10°	56713	24536	4285	0	0
15°	226742	40153	2300	0	0
20°	926366	59216	715	0	0
25°	1831192	58699	0	0	0
30°	2301591	46336	0	0	0
35°	1963794	28404	0	0	0
40°	808500	8970	0	0	0
45°	174925	3751	0	0	0
50°	22426	0	0	0	0
55°	1922	0	390	0	0
60°	0	0	896	0	0
65°	0	0	1060	0	0
70°	0	655	1964	0	0
75°	0	865	2595	0	0
80°	0	1289	3868	0	0
85°	0	2569	7707	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2°  
 Vertical Angle: 45°  
 Luminance: 183084 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.9	0.5
10°-20°	85.8	7.0
20°-30°	500.0	40.8
30°-40°	536.1	43.8
40°-50°	90.5	7.4
50°-60°	2.7	0.2
60°-70°	0.8	0.1
70°-80°	1.2	0.1
80°-90°	1.1	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°	591.6	48.3
0°-40°	1127.7	92.1
0°-60°	1220.9	99.7
0°-90°	1224.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1224.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	44	44	44	44	44	
5°	126	95	37	15	10	17
15°	1272	225	13	0	0	588
25°	9636	309	0	0	0	4360
35°	9340	135	0	0	0	5368
45°	718	15	0	0	0	848
55°	6	0	1	0	0	16
65°	0	0	3	0	0	0
75°	0	1	4	0	0	0
85°	0	1	4	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°	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8
2.5°	79.8	81.1	82.4	82.4	82.4	82.4	81.1	81.1	81.1	81.1	79.8
5°	126.1	126.1	126.1	126.1	126.1	126.1	124.8	124.8	124.8	124.8	124.8
7.5°	180.2	177.6	178.9	175.0	177.6	176.3	175.0	177.6	177.6	171.2	171.2
10°	324.3	323.1	310.2	312.8	315.3	314.1	314.1	306.3	305.0	299.9	294.7
12.5°	625.5	639.7	650.0	650.0	625.5	634.5	617.8	621.7	624.2	616.5	589.5
15°	1271.7	1294.8	1270.4	1293.5	1284.5	1251.1	1213.7	1163.5	1182.8	1148.1	1136.5
17.5°	2785.3	2838.1	2816.2	2709.4	2744.1	2661.7	2610.2	2590.9	2536.9	2376.0	2309.1
20°	5054.5	5118.8	5058.3	4933.5	4973.4	4817.6	4777.7	4740.4	4501.0	4413.5	4132.9
21°	6009.5	6062.3	6085.4	5955.4	5875.6	5752.1	5649.1	5615.6	5470.2	5301.6	5013.3
22°	7162.7	7100.9	6961.9	6980.0	6861.5	6759.9	6617.0	6481.8	6319.7	6084.1	5846.0
23°	8117.8	8045.7	7980.0	7900.2	7772.8	7700.7	7496.1	7348.1	7137.0	6884.7	6655.6
24°	9007.1	8896.5	8855.3	8713.7	8677.6	8515.5	8349.4	8156.4	7901.5	7632.5	7379.0
25°	9636.5	9653.3	9617.2	9600.5	9416.4	9250.4	9085.7	8788.3	8570.8	8332.7	7942.7
26°	10311.0	10318.7	10300.7	10177.1	10011.1	9848.9	9636.5	9377.8	9062.5	8798.6	8446.0
27°	10827.1	10796.2	10770.5	10623.7	10487.3	10282.7	10089.6	9783.3	9475.6	9161.6	8752.3
28°	11239.0	11181.1	11148.9	11022.7	10863.1	10612.2	10375.3	10089.6	9782.0	9444.8	9002.0
29°	11487.4	11425.6	11389.6	11250.6	11066.5	10846.4	10607.0	10293.0	9962.2	9586.3	9141.0
30°	11573.6	11537.6	11481.0	11336.8	11146.3	10917.2	10671.4	10330.3	9984.1	9599.2	9128.1
31°	11517.0	11470.7	11416.6	11260.9	11054.9	10836.1	10550.4	10192.6	9828.3	9461.5	8962.1
32°	11291.7	11263.4	11197.8	10989.3	10822.0	10538.8	10256.9	9922.3	9524.6	9130.7	8678.9
33°	10869.6	10823.2	10766.6	10576.1	10362.5	10090.9	9810.3	9467.9	9072.8	8657.0	8160.2
34°	10226.0	10166.8	10096.0	9968.6	9695.7	9460.2	9135.9	8735.6	8408.6	8009.6	7560.4
35°	9340.5	9254.3	9169.3	9072.8	8766.5	8548.9	8330.1	7981.3	7666.0	7290.1	6781.7
36°	8346.9	8313.4	8243.9	7989.0	7889.9	7593.9	7417.6	7017.3	6762.4	6394.3	5974.7
37°	7223.2	7026.3	7126.7	6983.8	6685.2	6592.5	6382.7	6039.1	5763.6	5374.9	5071.2
38°	6018.5	5889.8	5960.6	5816.4	5660.7	5447.0	5287.4	5036.4	4727.5	4422.5	4134.2
39°	4770.0	4665.7	4743.0	4645.2	4408.3	4319.5	4177.9	3986.2	3737.7	3499.6	3226.8
40°	3596.2	3462.3	3565.3	3426.3	3318.1	3172.7	3100.6	2924.3	2769.8	2627.0	2453.2
42.5°	1642.3	1628.2	1605.0	1554.8	1543.2	1544.5	1455.7	1397.8	1319.3	1227.9	1172.6
45°	718.2	736.2	751.7	723.4	722.1	706.6	701.5	662.9	647.4	617.8	581.8
47.5°	354.0	360.4	356.5	364.2	357.8	347.5	344.9	339.8	324.3	323.1	306.3
50°	83.7	82.4	82.4	83.7	82.4	82.4	81.1	78.5	77.2	78.5	74.7
52.5°	27.0	28.3	27.0	25.7	27.0	28.3	27.0	27.0	27.0	27.0	27.0
55°	6.4	6.4	6.4	6.4	6.4	6.4	5.1	5.1	6.4	6.4	6.4
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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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**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°	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8
2.5°	78.5	66.9	55.3	43.8	32.2	25.7	24.5	23.2
5°	118.4	95.2	63.1	37.3	21.9	15.4	11.6	10.3
7.5°	159.6	118.4	69.5	30.9	15.4	6.4	2.6	1.3
10°	229.1	140.3	72.1	24.5	7.7	0.0	0.0	0.0
12.5°	449.2	160.9	70.8	19.3	1.3	0.0	0.0	0.0
15°	746.5	225.2	65.6	12.9	0.0	0.0	0.0	0.0
17.5°	1222.7	290.9	56.6	9.0	0.0	0.0	0.0	0.0
20°	1895.9	323.1	43.8	3.9	0.0	0.0	0.0	0.0
21°	2222.8	325.6	38.6	2.6	0.0	0.0	0.0	0.0
22°	2506.0	325.6	33.5	1.3	0.0	0.0	0.0	0.0
23°	2768.6	321.8	29.6	0.0	0.0	0.0	0.0	0.0
24°	2984.8	316.6	27.0	0.0	0.0	0.0	0.0	0.0
25°	3147.0	308.9	24.5	0.0	0.0	0.0	0.0	0.0
26°	3221.6	298.6	20.6	0.0	0.0	0.0	0.0	0.0
27°	3258.9	284.4	18.0	0.0	0.0	0.0	0.0	0.0
28°	3233.2	269.0	15.4	0.0	0.0	0.0	0.0	0.0
29°	3168.8	252.3	11.6	0.0	0.0	0.0	0.0	0.0
30°	3085.2	233.0	9.0	0.0	0.0	0.0	0.0	0.0
31°	2962.9	213.7	6.4	0.0	0.0	0.0	0.0	0.0
32°	2795.6	194.4	5.1	0.0	0.0	0.0	0.0	0.0
33°	2571.6	173.8	2.6	0.0	0.0	0.0	0.0	0.0
34°	2294.9	153.2	1.3	0.0	0.0	0.0	0.0	0.0
35°	1984.7	135.1	0.0	0.0	0.0	0.0	0.0	0.0
36°	1718.3	115.8	0.0	0.0	0.0	0.0	0.0	0.0
37°	1450.6	92.7	0.0	0.0	0.0	0.0	0.0	0.0
38°	1215.0	73.4	0.0	0.0	0.0	0.0	0.0	0.0
39°	1005.2	59.2	0.0	0.0	0.0	0.0	0.0	0.0
40°	832.8	39.9	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	460.8	27.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	279.3	15.4	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	162.2	5.1	0.0	0.0	0.0	0.0	0.0	0.0
50°	61.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	20.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5.1	0.0	0.0	1.3	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.3	2.6	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.3	2.6	1.3	0.0	0.0	0.0
65°	0.0	0.0	2.6	2.6	1.3	0.0	0.0	0.0
67.5°	0.0	0.0	2.6	3.9	1.3	0.0	0.0	0.0
70°	0.0	1.3	2.6	3.9	1.3	0.0	0.0	0.0
72.5°	0.0	1.3	2.6	3.9	1.3	0.0	0.0	0.0
75°	0.0	1.3	2.6	3.9	1.3	0.0	0.0	0.0
77.5°	0.0	1.3	2.6	3.9	1.3	0.0	0.0	0.0
80°	0.0	1.3	2.6	3.9	1.3	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	1.3	2.6	3.9	1.3	0.0	0.0	0.0
85°	0.0	1.3	2.6	3.9	1.3	0.0	0.0	0.0
87.5°	0.0	1.3	2.6	3.9	1.3	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)