

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: P1310466

Luminaire Tested: LDSQA3D17R159035DE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

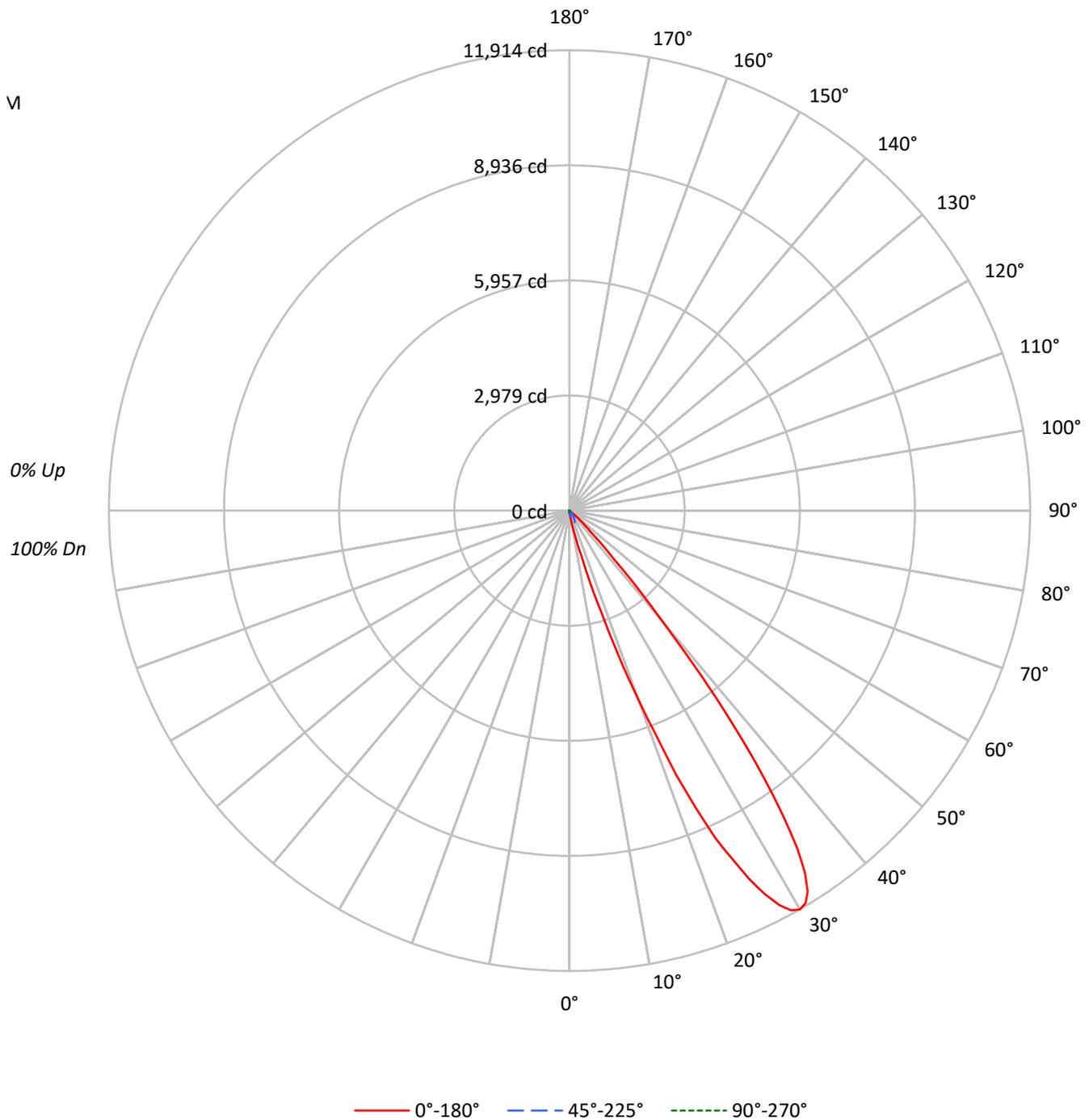
Test Method: LM-79-2019  
Report Number: P1310466  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R159035DE010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1260.0 lumens  
Efficiency: N/A  
Efficacy: 59.4 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 (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





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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	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	94	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	68	64	72	67	63	71	66	63	61
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	55
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	50
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37

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

	0°	45°	90°	135°	180°
0°	7750	7750	7750	7750	7750
5°	22440	16942	6639	2749	1833
10°	58392	25253	4407	0	0
15°	233410	41347	2354	0	0
20°	953601	60957	733	0	0
25°	1885064	60428	0	0	0
30°	2369284	47688	0	0	0
35°	2021548	29245	0	0	0
40°	832264	9240	0	0	0
45°	180064	3873	0	0	0
50°	23069	0	0	0	0
55°	1982	0	390	0	0
60°	0	0	896	0	0
65°	0	0	1060	0	0
70°	0	655	2014	0	0
75°	0	865	2662	0	0
80°	0	1289	3967	0	0
85°	0	2569	7904	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2°  
 Vertical Angle: 45°  
 Luminance: 188466 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.0	0.5
10°-20°	88.3	7.0
20°-30°	514.7	40.8
30°-40°	551.9	43.8
40°-50°	93.1	7.4
50°-60°	2.8	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°	609.0	48.3
0°-40°	1160.9	92.1
0°-60°	1256.8	99.8
0°-90°	1260.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1260.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	45	45	45	45	45	
5°	130	98	38	16	11	18
15°	1309	232	13	0	0	606
25°	9920	318	0	0	0	4488
35°	9615	139	0	0	0	5526
45°	739	16	0	0	0	873
55°	7	0	1	0	0	17
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°	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
2.5°	82.1	83.5	84.8	84.8	84.8	84.8	83.5	83.5	83.5	83.5	82.1
5°	129.8	129.8	129.8	129.8	129.8	129.8	128.5	128.5	128.5	128.5	128.5
7.5°	185.5	182.8	184.2	180.2	182.8	181.5	180.2	182.8	182.8	176.2	176.2
10°	333.9	332.6	319.3	322.0	324.6	323.3	323.3	315.3	314.0	308.7	303.4
12.5°	643.9	658.5	669.1	669.1	643.9	653.2	636.0	640.0	642.6	634.7	606.8
15°	1309.1	1332.9	1307.7	1331.6	1322.3	1287.9	1249.4	1197.8	1217.6	1181.9	1169.9
17.5°	2867.2	2921.5	2899.0	2789.0	2824.8	2740.0	2687.0	2667.1	2611.5	2445.9	2377.0
20°	5203.1	5269.4	5207.1	5078.6	5119.6	4959.3	4918.2	4879.8	4633.4	4543.3	4254.4
21°	6186.2	6240.6	6264.4	6130.6	6048.4	5921.2	5815.2	5780.8	5631.1	5457.5	5160.7
22°	7373.4	7309.8	7166.7	7185.2	7063.4	6958.7	6811.6	6672.5	6505.5	6263.1	6018.0
23°	8356.5	8282.3	8214.7	8132.6	8001.4	7927.2	7716.6	7564.2	7346.9	7087.2	6851.4
24°	9272.1	9158.1	9115.7	8970.0	8932.9	8765.9	8595.0	8396.3	8133.9	7857.0	7596.0
25°	9920.0	9937.2	9900.1	9882.9	9693.4	9522.5	9352.9	9046.8	8822.9	8577.8	8176.3
26°	10614.2	10622.2	10603.6	10476.4	10305.5	10138.6	9920.0	9653.6	9329.0	9057.4	8694.4
27°	11145.5	11113.7	11087.3	10936.2	10795.8	10585.1	10386.3	10071.0	9754.3	9431.1	9009.7
28°	11569.5	11509.9	11476.8	11346.9	11182.6	10924.3	10680.5	10386.3	10069.7	9722.5	9266.8
29°	11825.3	11761.7	11724.6	11581.5	11392.0	11165.4	10919.0	10595.7	10255.2	9868.3	9409.9
30°	11914.0	11876.9	11818.6	11670.2	11474.1	11238.3	10985.2	10634.1	10277.7	9881.5	9396.6
31°	11855.7	11808.0	11752.4	11592.1	11380.1	11154.8	10860.7	10492.3	10117.4	9739.8	9225.7
32°	11623.9	11594.7	11527.1	11312.5	11140.2	10848.8	10558.6	10214.1	9804.7	9399.3	8934.2
33°	11189.3	11141.6	11083.3	10887.2	10667.2	10387.7	10098.8	9746.4	9339.6	8911.7	8400.2
34°	10526.8	10465.8	10393.0	10261.8	9980.9	9738.4	9404.6	8992.5	8656.0	8245.2	7782.8
35°	9615.2	9526.4	9439.0	9339.6	9024.3	8800.4	8575.1	8216.1	7891.5	7504.6	6981.2
36°	8592.4	8557.9	8486.4	8224.0	8122.0	7817.3	7635.7	7223.7	6961.3	6582.4	6150.5
37°	7435.7	7232.9	7336.3	7189.2	6881.8	6786.4	6570.5	6216.7	5933.2	5533.0	5220.3
38°	6195.5	6063.0	6135.9	5987.5	5827.2	5607.2	5442.9	5184.6	4866.6	4552.6	4255.8
39°	4910.3	4803.0	4882.5	4781.8	4538.0	4446.6	4300.8	4103.4	3847.7	3602.6	3321.7
40°	3701.9	3564.1	3670.1	3527.0	3415.7	3266.0	3191.8	3010.3	2851.3	2704.2	2525.4
42.5°	1690.6	1676.1	1652.2	1600.5	1588.6	1589.9	1498.5	1438.9	1358.1	1264.0	1207.0
45°	739.3	757.9	773.8	744.6	743.3	727.4	722.1	682.4	666.5	636.0	598.9
47.5°	364.4	371.0	367.0	375.0	368.3	357.7	355.1	349.8	333.9	332.6	315.3
50°	86.1	84.8	84.8	86.1	84.8	84.8	83.5	80.8	79.5	80.8	76.8
52.5°	27.8	29.1	27.8	26.5	27.8	29.1	27.8	27.8	27.8	27.8	27.8
55°	6.6	6.6	6.6	6.6	6.6	6.6	5.3	5.3	6.6	6.6	6.6
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°	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
2.5°	80.8	68.9	57.0	45.0	33.1	26.5	25.2	23.8
5°	121.9	98.0	64.9	38.4	22.5	15.9	11.9	10.6
7.5°	164.3	121.9	71.5	31.8	15.9	6.6	2.6	1.3
10°	235.8	144.4	74.2	25.2	7.9	0.0	0.0	0.0
12.5°	462.4	165.6	72.9	19.9	1.3	0.0	0.0	0.0
15°	768.5	231.9	67.6	13.2	0.0	0.0	0.0	0.0
17.5°	1258.7	299.4	58.3	9.3	0.0	0.0	0.0	0.0
20°	1951.7	332.6	45.0	4.0	0.0	0.0	0.0	0.0
21°	2288.2	335.2	39.7	2.6	0.0	0.0	0.0	0.0
22°	2579.7	335.2	34.4	1.3	0.0	0.0	0.0	0.0
23°	2850.0	331.2	30.5	0.0	0.0	0.0	0.0	0.0
24°	3072.6	325.9	27.8	0.0	0.0	0.0	0.0	0.0
25°	3239.5	318.0	25.2	0.0	0.0	0.0	0.0	0.0
26°	3316.4	307.4	21.2	0.0	0.0	0.0	0.0	0.0
27°	3354.8	292.8	18.5	0.0	0.0	0.0	0.0	0.0
28°	3328.3	276.9	15.9	0.0	0.0	0.0	0.0	0.0
29°	3262.0	259.7	11.9	0.0	0.0	0.0	0.0	0.0
30°	3175.9	239.8	9.3	0.0	0.0	0.0	0.0	0.0
31°	3050.1	219.9	6.6	0.0	0.0	0.0	0.0	0.0
32°	2877.8	200.1	5.3	0.0	0.0	0.0	0.0	0.0
33°	2647.3	178.9	2.6	0.0	0.0	0.0	0.0	0.0
34°	2362.4	157.7	1.3	0.0	0.0	0.0	0.0	0.0
35°	2043.1	139.1	0.0	0.0	0.0	0.0	0.0	0.0
36°	1768.8	119.2	0.0	0.0	0.0	0.0	0.0	0.0
37°	1493.2	95.4	0.0	0.0	0.0	0.0	0.0	0.0
38°	1250.8	75.5	0.0	0.0	0.0	0.0	0.0	0.0
39°	1034.8	60.9	0.0	0.0	0.0	0.0	0.0	0.0
40°	857.2	41.1	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	474.3	27.8	0.0	0.0	0.0	0.0	0.0	0.0
45°	287.5	15.9	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	166.9	5.3	0.0	0.0	0.0	0.0	0.0	0.0
50°	63.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	21.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5.3	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	4.0	1.3	0.0	0.0	0.0
70°	0.0	1.3	2.6	4.0	1.3	0.0	0.0	0.0
72.5°	0.0	1.3	2.6	4.0	1.3	0.0	0.0	0.0
75°	0.0	1.3	2.6	4.0	1.3	0.0	0.0	0.0
77.5°	0.0	1.3	2.6	4.0	1.3	0.0	0.0	0.0
80°	0.0	1.3	2.6	4.0	1.3	0.0	0.0	0.0



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	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	1.3	2.6	4.0	1.3	0.0	0.0	0.0
85°	0.0	1.3	2.6	4.0	1.3	0.0	0.0	0.0
87.5°	0.0	1.3	2.6	4.0	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)