

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: P1324014

Luminaire Tested: LDSQA3D17R209030D2WDE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

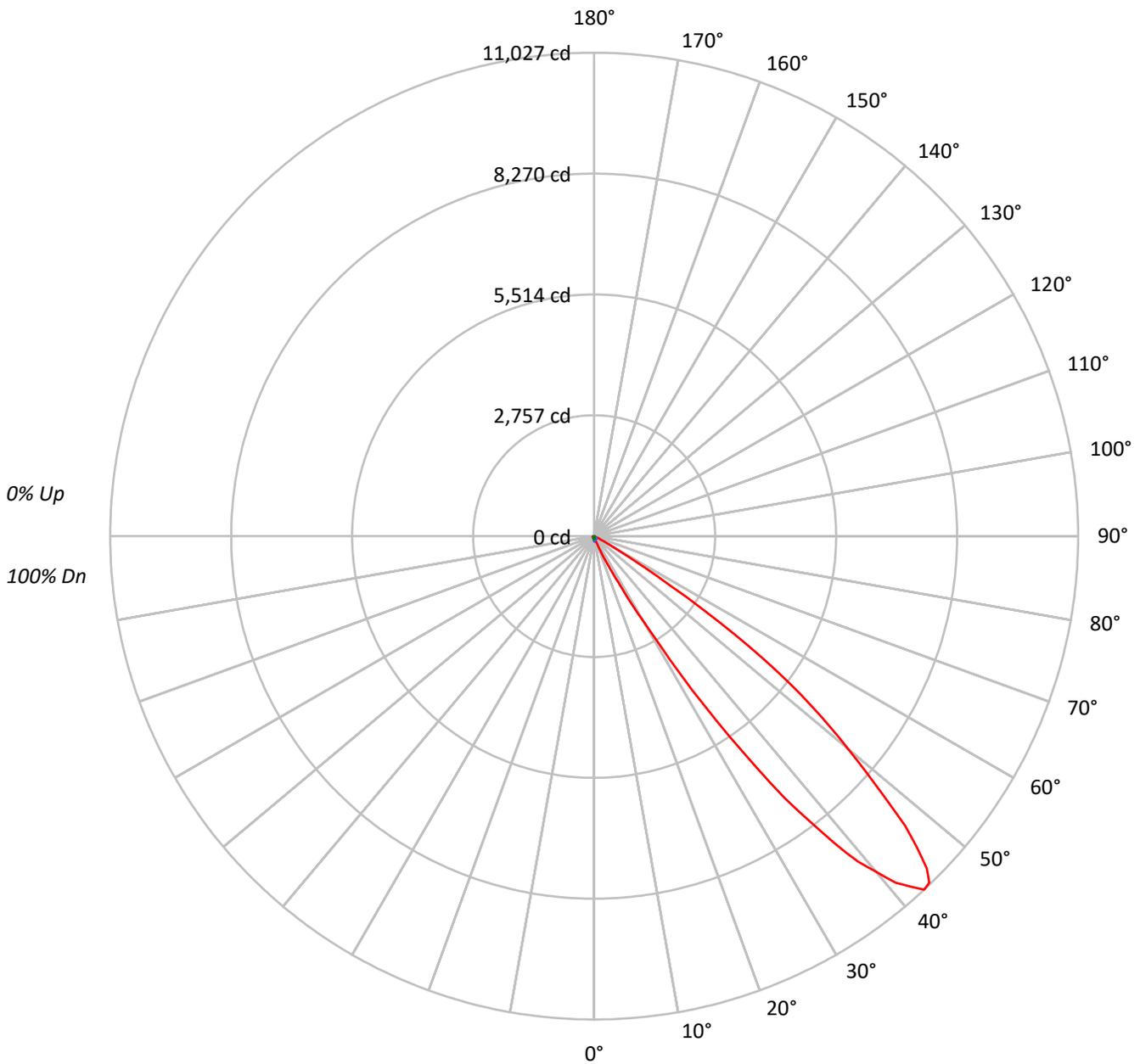
Test Method: LM-79-2019  
Report Number: P1324014  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-74)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R209030D2WDE010 3LSQCA45R 1MMS  
Description: 3in Adjustable Dim to Warm LED luminaire with, R20 optic, 3000K CCT AND, 90CRI ,  
3LSQCA45R 1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1532.0 lumens  
Efficiency: N/A  
Efficacy: 56.1 lumens/watt  
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.13  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 27.3  
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



— 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89	87
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	62	48	39	32	60	47	38	32	46	38	32	44	37	32	43	36	31	29
8	57	42	33	27	55	42	33	27	40	33	27	39	32	27	38	31	27	25
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21
10	48	34	25	20	47	33	25	20	32	25	19	31	24	19	30	24	19	17

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

	0°	45°	90°	135°	180°
0°	18342	18342	18342	18342	18342
5°	21403	19916	17167	14937	14436
10°	21143	18135	13588	11577	11332
15°	18490	13854	10003	9236	9753
20°	27436	11601	7386	7918	8706
25°	118197	12029	5739	7107	8475
30°	446930	14597	4872	6881	8313
35°	1354861	17555	4541	6959	8788
40°	2246656	17469	3889	7442	9398
45°	2611349	11934	3507	7721	10181
50°	2027085	6564	3483	8092	11575
55°	1173240	4324	3453	9068	12551
60°	198366	999	2962	9438	13881
65°	15241	0	3505	10555	15852
70°	2165	0	4330	11582	18128
75°	1930	932	4791	13441	21094
80°	1389	1389	7141	14282	24299
85°	2766	2766	11461	14227	25688

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2611349 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9.2	0.6
10°-20°	19.2	1.3
20°-30°	61.2	4.0
30°-40°	390.7	25.5
40°-50°	715.1	46.7
50°-60°	293.8	19.2
60°-70°	24.8	1.6
70°-80°	12.3	0.8
80°-90°	5.8	0.4
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°	89.5	5.8
0°-40°	480.2	31.3
0°-60°	1489.1	97.2
0°-90°	1532.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1532.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	106	106	106	106	106	
5°	124	115	99	86	84	12
15°	104	78	56	52	55	33
25°	622	63	30	37	45	409
35°	6444	84	22	33	42	4079
45°	10722	49	14	32	42	7698
55°	3907	14	12	30	42	3416
65°	37	0	9	26	39	122
75°	3	1	7	20	32	3
85°	1	1	6	7	13	1
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°	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5
2.5°	116.6	116.6	116.6	115.2	115.2	116.6	115.2	115.2	115.2	115.2	113.7
5°	123.8	123.8	123.8	123.8	123.8	123.8	123.8	122.4	122.4	120.9	115.2
7.5°	126.7	126.7	126.7	126.7	125.3	125.3	125.3	125.3	123.8	122.4	112.3
10°	120.9	120.9	120.9	119.5	119.5	119.5	118.1	118.1	116.6	115.2	103.7
12.5°	109.4	109.4	109.4	109.4	108.0	108.0	106.5	106.5	105.1	103.7	90.7
15°	103.7	103.7	103.7	102.2	102.2	100.8	99.3	97.9	96.5	93.6	77.7
17.5°	112.3	112.3	110.9	110.9	108.0	105.1	103.7	99.3	96.5	92.1	69.1
20°	149.7	151.2	145.4	141.1	138.2	129.6	125.3	118.1	112.3	105.1	63.3
22.5°	302.3	296.6	286.5	270.7	252.0	236.1	207.3	184.3	168.4	146.9	61.9
25°	622.0	616.2	588.8	565.8	508.2	463.6	401.7	351.3	299.5	249.1	63.3
27.5°	1182.0	1143.1	1135.9	1030.8	950.2	835.0	715.5	614.8	522.6	420.4	67.7
30°	2247.4	2202.8	2045.8	1887.5	1670.1	1423.9	1189.2	970.4	787.5	622.0	73.4
31°	2852.1	2895.3	2711.0	2392.8	2071.8	1756.5	1435.4	1157.5	921.4	715.5	76.3
32°	3749.0	3560.4	3366.1	3039.2	2572.8	2169.7	1766.5	1366.3	1055.3	816.3	79.2
33°	4597.0	4486.2	4189.6	3782.1	3222.1	2656.3	2133.7	1612.5	1219.4	938.7	80.6
34°	5501.2	5378.8	5138.4	4553.8	3939.1	3197.6	2500.8	1896.1	1415.2	1058.2	82.1
35°	6444.2	6392.4	5928.8	5422.0	4666.1	3772.1	2942.8	2207.1	1606.7	1167.6	83.5
36°	7393.0	7226.0	6863.1	6123.1	5334.2	4303.3	3406.4	2496.5	1801.1	1297.2	83.5
37°	8107.1	8069.6	7588.8	6867.5	5940.3	4870.6	3806.6	2817.5	1996.9	1408.0	83.5
38°	8894.6	8746.3	8258.2	7524.0	6510.4	5390.3	4225.6	3096.8	2182.6	1508.8	82.1
39°	9558.3	9338.0	8845.6	8120.0	7008.6	5784.8	4558.2	3367.5	2346.7	1592.3	80.6
40°	9993.1	9840.5	9326.5	8510.2	7460.6	6157.7	4895.0	3590.7	2469.1	1655.7	77.7
41°	10472.5	10219.1	9710.9	8890.3	7788.9	6485.9	5106.7	3737.5	2564.1	1697.4	74.9
42°	10759.0	10551.7	9948.5	9145.1	8023.6	6673.1	5279.5	3849.8	2621.7	1719.0	69.1
43°	11026.8	10744.6	10157.2	9293.4	8179.1	6805.6	5358.6	3901.6	2634.7	1719.0	61.9
44°	10990.8	10723.0	10114.0	9313.6	8213.6	6844.4	5391.8	3903.1	2614.5	1697.4	54.7
45°	10721.6	10455.2	9906.7	9137.9	8089.8	6768.1	5325.5	3845.5	2558.4	1660.0	49.0
46°	10227.8	9962.9	9542.5	8844.2	7859.4	6595.4	5171.5	3720.2	2464.8	1599.5	43.2
47°	9690.8	9433.0	9002.6	8370.5	7466.4	6287.3	4948.3	3544.6	2333.8	1511.7	38.9
48°	8911.9	8750.6	8318.7	7778.8	6920.7	5805.0	4556.7	3258.1	2158.1	1398.0	33.1
49°	8223.7	8053.8	7675.1	7094.9	6209.5	5243.5	4088.8	2909.7	1929.2	1271.3	28.8
50°	7565.7	7417.4	7067.6	6412.5	5567.4	4565.4	3456.8	2470.6	1641.3	1114.3	24.5
51°	6922.2	6811.3	6454.3	5852.5	4994.4	4044.2	2994.6	2057.4	1356.2	924.3	23.0
52°	6275.7	6262.8	5875.5	5266.5	4437.2	3524.4	2545.4	1736.3	1150.3	776.0	21.6
53°	5580.4	5496.9	5158.5	4611.4	3815.3	2983.1	2158.1	1464.2	990.5	660.8	18.7
54°	4788.5	4694.9	4332.1	3838.3	3117.0	2443.2	1739.2	1183.5	825.0	558.6	17.3
55°	3907.4	3747.6	3484.1	2977.3	2434.6	1864.4	1343.3	937.3	659.4	465.0	14.4
56°	2964.4	2804.6	2656.3	2283.4	1786.7	1390.8	1000.6	718.4	515.4	367.1	13.0
57°	2061.7	2053.0	1809.7	1523.2	1195.0	947.3	685.3	506.8	364.2	285.1	10.1
58°	1337.5	1292.9	1137.4	971.8	781.8	591.7	440.6	344.1	247.6	194.4	8.6
59°	937.3	848.0	764.5	647.9	492.4	372.9	283.6	220.3	171.3	135.3	5.8
60°	575.9	557.2	501.0	394.5	319.6	263.5	211.6	162.7	125.3	96.5	2.9
62.5°	164.1	167.0	151.2	133.9	115.2	99.3	89.3	76.3	63.3	50.4	0.0
65°	37.4	36.0	38.9	36.0	33.1	33.1	28.8	25.9	23.0	21.6	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	11.5	11.5	10.1	10.1	10.1	8.6	8.6	7.2	7.2	5.8	0.0
70°	4.3	4.3	4.3	4.3	4.3	2.9	2.9	2.9	1.4	1.4	0.0
72.5°	4.3	4.3	4.3	2.9	2.9	2.9	2.9	2.9	1.4	1.4	1.4
75°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	1.4	1.4	1.4	1.4
77.5°	2.9	2.9	2.9	2.9	2.9	1.4	2.9	1.4	1.4	1.4	1.4
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
85°	1.4	1.4	1.4	1.4	0.0	0.0	1.4	1.4	1.4	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°	106.5	106.5	106.5	106.5	106.5	106.5
2.5°	110.9	105.1	100.8	96.5	95.0	95.0
5°	108.0	99.3	90.7	86.4	83.5	83.5
7.5°	99.3	89.3	80.6	76.3	74.9	74.9
10°	89.3	77.7	69.1	66.2	66.2	64.8
12.5°	77.7	66.2	60.5	59.0	59.0	59.0
15°	64.8	56.1	51.8	51.8	53.3	54.7
17.5°	54.7	46.1	44.6	47.5	50.4	50.4
20°	46.1	40.3	40.3	43.2	46.1	47.5
22.5°	38.9	34.6	36.0	40.3	44.6	46.1
25°	34.6	30.2	33.1	37.4	41.8	44.6
27.5°	28.8	27.4	30.2	36.0	41.8	43.2
30°	24.5	24.5	28.8	34.6	40.3	41.8
31°	23.0	23.0	28.8	34.6	40.3	41.8
32°	21.6	23.0	27.4	34.6	40.3	41.8
33°	20.2	21.6	27.4	33.1	40.3	41.8
34°	18.7	21.6	27.4	33.1	40.3	41.8
35°	17.3	21.6	27.4	33.1	40.3	41.8
36°	15.8	20.2	25.9	33.1	40.3	41.8
37°	14.4	20.2	25.9	33.1	40.3	41.8
38°	13.0	18.7	25.9	33.1	40.3	41.8
39°	13.0	18.7	24.5	33.1	38.9	41.8
40°	11.5	17.3	24.5	33.1	38.9	41.8
41°	10.1	17.3	24.5	31.7	38.9	41.8
42°	8.6	15.8	23.0	31.7	38.9	41.8
43°	7.2	15.8	23.0	31.7	38.9	41.8
44°	7.2	14.4	23.0	31.7	38.9	41.8
45°	5.8	14.4	23.0	31.7	38.9	41.8
46°	4.3	14.4	23.0	31.7	38.9	41.8
47°	4.3	13.0	21.6	31.7	38.9	41.8
48°	2.9	13.0	21.6	31.7	38.9	41.8
49°	2.9	13.0	21.6	31.7	38.9	43.2
50°	2.9	13.0	21.6	30.2	38.9	43.2
51°	1.4	13.0	21.6	30.2	38.9	43.2
52°	1.4	13.0	20.2	30.2	40.3	43.2
53°	1.4	11.5	20.2	30.2	40.3	43.2
54°	1.4	11.5	20.2	30.2	40.3	41.8
55°	1.4	11.5	20.2	30.2	38.9	41.8
56°	1.4	10.1	20.2	30.2	38.9	41.8
57°	1.4	10.1	18.7	28.8	38.9	40.3
58°	1.4	10.1	18.7	28.8	38.9	40.3
59°	1.4	10.1	18.7	28.8	37.4	40.3
60°	2.9	8.6	17.3	27.4	37.4	40.3
62.5°	2.9	8.6	17.3	27.4	36.0	38.9
65°	2.9	8.6	15.8	25.9	36.0	38.9



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**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	2.9	7.2	14.4	24.5	34.6	37.4
70°	2.9	8.6	14.4	23.0	33.1	36.0
72.5°	4.3	7.2	13.0	21.6	31.7	34.6
75°	4.3	7.2	13.0	20.2	30.2	31.7
77.5°	5.8	7.2	11.5	17.3	27.4	28.8
80°	5.8	7.2	10.1	14.4	23.0	24.5
82.5°	5.8	7.2	7.2	11.5	17.3	18.7
85°	4.3	5.8	5.8	7.2	11.5	13.0
87.5°	4.3	5.8	4.3	2.9	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)