

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: P1309400

Luminaire Tested: LDSQA3D17R309030DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

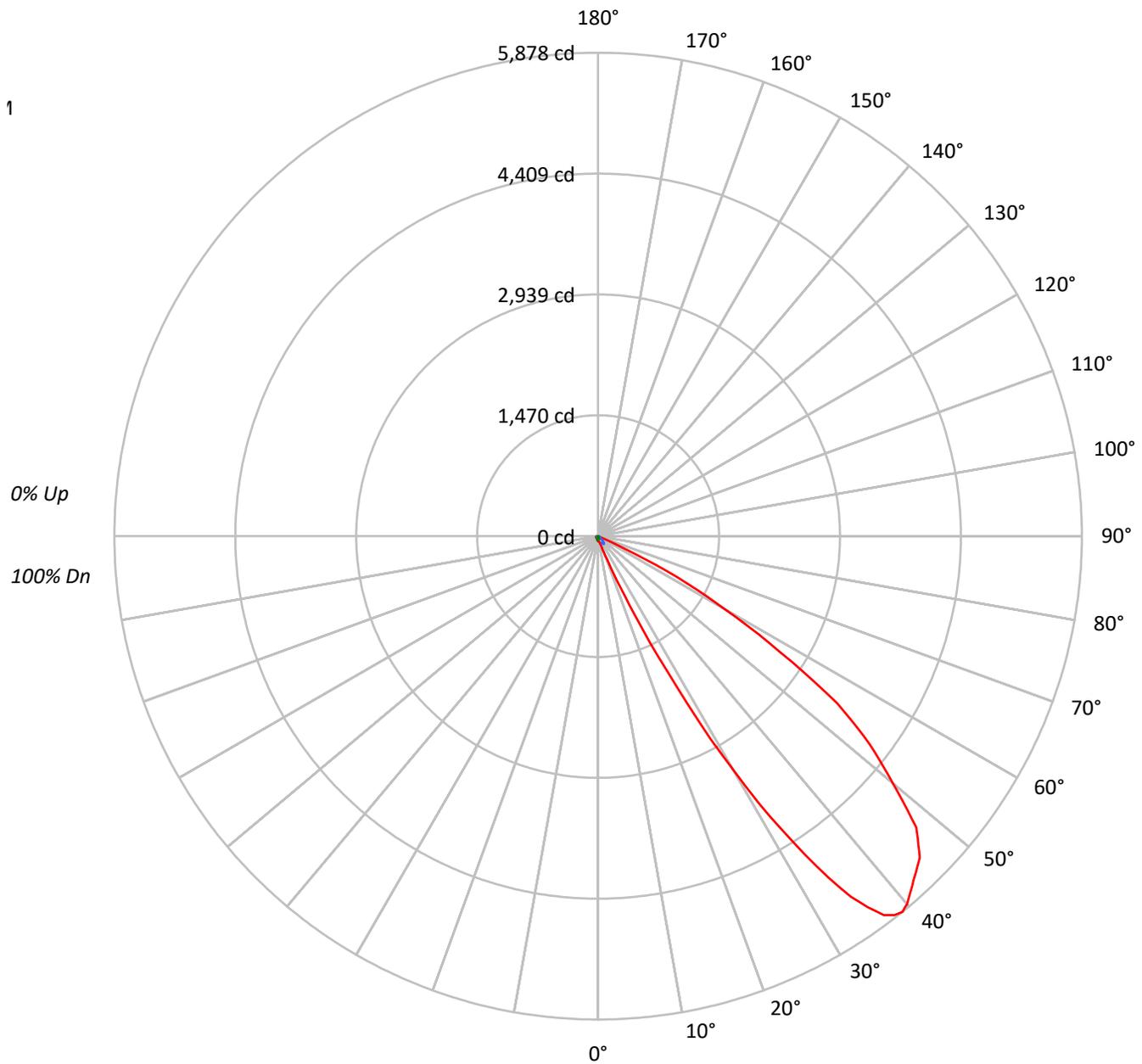
Test Method: LM-79-2019  
Report Number: P1309400  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R309030DE010 3LSQCA45R 1MW  
Description: 3in Adjustable LED luminaire with, R30 optic, 3000K CCT AND, 90CRI , 3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1528.0 lumens  
Efficiency: N/A  
Efficacy: 72.1 lumens/watt  
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44  
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				
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	100	100	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87	87	87
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73	73	73	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61	61	61	61
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50	50	50	50
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	42	42	42	42
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35	35	35	35
7	62	48	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29	29	29	29
8	56	42	33	27	55	41	33	27	40	32	26	39	32	26	37	31	26	24	24	24	24
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22	20	20	20	20
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	24	19	17	17	17	17

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

	0°	45°	90°	135°	180°
0°	10196	10196	10196	10196	10196
5°	10909	10684	10010	9128	8903
10°	11927	10580	8779	7870	7660
15°	17438	10555	7346	6651	6882
20°	43876	11565	5663	5663	6378
25°	203747	14423	4409	5131	5872
30°	648620	19966	3321	4872	5886
35°	1125463	24346	2712	4604	5950
40°	1312593	24303	2023	4631	6070
45°	1346130	17244	2192	5017	6576
50°	1251853	9646	1715	5171	7582
55°	1063945	5014	1922	5795	8497
60°	614490	1343	2204	6200	9300
65°	125351	0	2608	7335	10473
70°	1964	655	3223	8409	12337
75°	1730	865	3394	8584	14573
80°	1289	1289	5058	10215	16563
85°	0	2569	10078	10078	20353

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1346130 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.3	0.4
10°-20°	15.4	1.0
20°-30°	88.1	5.8
30°-40°	411.6	26.9
40°-50°	582.0	38.1
50°-60°	358.0	23.4
60°-70°	54.5	3.6
70°-80°	8.6	0.6
80°-90°	4.3	0.3
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°	108.9	7.1
0°-40°	520.4	34.1
0°-60°	1460.5	95.6
0°-90°	1528.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1528.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	59	59	59	59	59	
5°	63	62	58	53	52	6
15°	98	59	41	37	39	35
25°	1072	76	23	27	31	660
35°	5353	116	13	22	28	3213
45°	5527	71	9	21	27	4190
55°	3543	17	6	19	28	3015
65°	308	0	6	18	26	557
75°	3	1	5	13	22	3
85°	0	1	5	5	10	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
2.5°	60.5	60.5	61.8	61.8	60.5	61.8	61.8	61.8	59.2	57.9	55.3
5°	63.1	63.1	63.1	64.4	63.1	63.1	61.8	60.5	57.9	54.1	52.8
7.5°	65.6	65.6	64.4	65.6	64.4	64.4	61.8	59.2	55.3	51.5	48.9
10°	68.2	68.2	66.9	66.9	65.6	65.6	60.5	56.6	50.2	46.3	45.0
12.5°	75.9	75.9	74.7	73.4	70.8	69.5	59.2	52.8	45.0	41.2	39.9
15°	97.8	96.5	94.0	90.1	83.7	82.4	59.2	48.9	41.2	37.3	37.3
17.5°	133.9	132.6	128.7	118.4	106.8	103.0	59.2	43.8	36.0	33.5	33.5
20°	239.4	229.1	209.8	184.1	157.0	142.9	63.1	38.6	30.9	29.6	30.9
21°	312.8	302.5	278.0	235.5	187.9	172.5	65.6	37.3	29.6	28.3	30.9
22°	426.0	414.5	364.3	306.3	238.1	211.1	66.9	34.8	27.0	27.0	29.6
23°	594.7	575.3	490.4	397.7	297.3	258.7	69.5	33.5	25.7	27.0	28.3
24°	778.7	762.0	665.4	526.4	379.7	324.4	72.1	32.2	24.5	24.5	27.0
25°	1072.2	1052.9	881.7	664.2	481.4	390.0	75.9	29.6	23.2	23.2	27.0
26°	1451.9	1363.1	1135.2	855.9	593.4	489.1	79.8	28.3	21.9	23.2	25.7
27°	1812.3	1738.9	1482.8	1097.9	733.7	601.1	85.0	27.0	20.6	21.9	25.7
28°	2285.9	2183.0	1859.9	1388.8	924.2	727.2	90.1	25.7	19.3	21.9	24.5
29°	2816.2	2672.1	2282.1	1715.7	1139.1	868.8	95.2	24.5	18.0	20.6	24.5
30°	3261.6	3126.4	2736.4	2103.2	1386.2	1055.4	100.4	23.2	16.7	20.6	24.5
31°	3784.1	3579.5	3107.1	2431.4	1598.6	1242.1	105.5	20.6	15.4	19.3	23.2
32°	4207.6	4064.7	3562.8	2802.1	1877.9	1448.0	109.4	19.3	15.4	19.3	23.2
33°	4616.9	4425.1	3939.9	3157.3	2130.2	1659.1	113.3	18.0	14.2	18.0	23.2
34°	5008.2	4831.9	4296.4	3444.3	2368.3	1859.9	115.8	15.4	14.2	18.0	21.9
35°	5353.1	5148.5	4610.5	3724.9	2612.9	2042.7	115.8	14.2	12.9	16.7	21.9
36°	5577.1	5430.4	4883.3	4001.7	2834.2	2216.4	115.8	12.9	11.6	16.7	20.6
37°	5768.9	5597.7	5102.2	4214.0	2997.7	2355.4	115.8	11.6	11.6	16.7	20.6
38°	5847.4	5700.7	5252.7	4402.0	3150.9	2497.0	114.6	10.3	10.3	15.4	20.6
39°	5878.3	5747.0	5366.0	4537.1	3264.1	2592.3	112.0	9.0	10.3	15.4	20.6
40°	5838.4	5739.3	5423.9	4624.6	3354.2	2661.8	108.1	7.7	9.0	15.4	20.6
42.5°	5673.6	5608.0	5411.1	4712.2	3431.5	2713.3	94.0	5.1	9.0	14.2	20.6
45°	5526.9	5454.8	5281.1	4620.8	3331.1	2611.6	70.8	2.6	9.0	14.2	20.6
47.5°	5242.5	5197.4	5061.0	4387.8	3111.0	2382.5	50.2	1.3	7.7	12.9	19.3
50°	4672.3	4629.8	4449.6	3809.9	2675.9	2014.3	36.0	1.3	6.4	12.9	19.3
52.5°	4161.3	4116.2	3857.5	3167.6	2055.5	1476.3	23.2	1.3	6.4	12.9	19.3
55°	3543.4	3464.9	3125.1	2404.3	1457.0	989.8	16.7	1.3	6.4	11.6	19.3
57.5°	2623.2	2508.6	2204.8	1639.8	839.2	536.7	9.0	1.3	6.4	11.6	19.3
60°	1784.0	1715.7	1379.8	864.9	357.8	226.5	3.9	1.3	6.4	11.6	18.0
62.5°	1081.2	994.9	693.8	368.1	154.5	103.0	0.0	2.6	6.4	11.6	18.0
65°	307.6	272.9	181.5	83.7	43.8	33.5	0.0	2.6	6.4	11.6	18.0
67.5°	10.3	10.3	10.3	9.0	6.4	6.4	1.3	2.6	6.4	11.6	16.7
70°	3.9	3.9	3.9	2.6	2.6	1.3	1.3	2.6	6.4	10.3	16.7
72.5°	2.6	2.6	2.6	2.6	1.3	1.3	1.3	2.6	5.1	9.0	15.4
75°	2.6	2.6	2.6	1.3	1.3	1.3	1.3	3.9	5.1	9.0	12.9
77.5°	2.6	2.6	2.6	1.3	1.3	1.3	1.3	3.9	5.1	7.7	12.9
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	3.9	5.1	7.7	10.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	1.3	1.3	1.3	0.0	0.0	0.0	1.3	3.9	5.1	5.1	7.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.9	5.1	3.9	5.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.9	3.9	3.9	2.6
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):**

	157.5°	180°
0°	59.2	59.2
2.5°	55.3	55.3
5°	51.5	51.5
7.5°	47.6	47.6
10°	43.8	43.8
12.5°	41.2	41.2
15°	37.3	38.6
17.5°	34.8	36.0
20°	33.5	34.8
21°	33.5	34.8
22°	32.2	33.5
23°	32.2	33.5
24°	30.9	32.2
25°	29.6	30.9
26°	29.6	30.9
27°	29.6	30.9
28°	28.3	30.9
29°	28.3	29.6
30°	28.3	29.6
31°	27.0	29.6
32°	27.0	29.6
33°	27.0	28.3
34°	25.7	28.3
35°	25.7	28.3
36°	25.7	28.3
37°	25.7	27.0
38°	25.7	28.3
39°	25.7	27.0
40°	25.7	27.0
42.5°	25.7	27.0
45°	25.7	27.0
47.5°	25.7	28.3
50°	25.7	28.3
52.5°	25.7	28.3
55°	25.7	28.3
57.5°	25.7	27.0
60°	25.7	27.0
62.5°	24.5	27.0
65°	24.5	25.7
67.5°	24.5	25.7
70°	23.2	24.5
72.5°	21.9	23.2
75°	19.3	21.9
77.5°	18.0	19.3
80°	15.4	16.7



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**CANDELA DISTRIBUTION (continued):**

	157.5°	180°
82.5°	12.9	12.9
85°	9.0	10.3
87.5°	5.1	5.1
90°	0.0	0.0

(END OF REPORT)