

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: P1319409

Luminaire Tested: LDSQA3D17R409835DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1319409  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-78)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R409835DE010 3LSQCA45R 1MW  
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

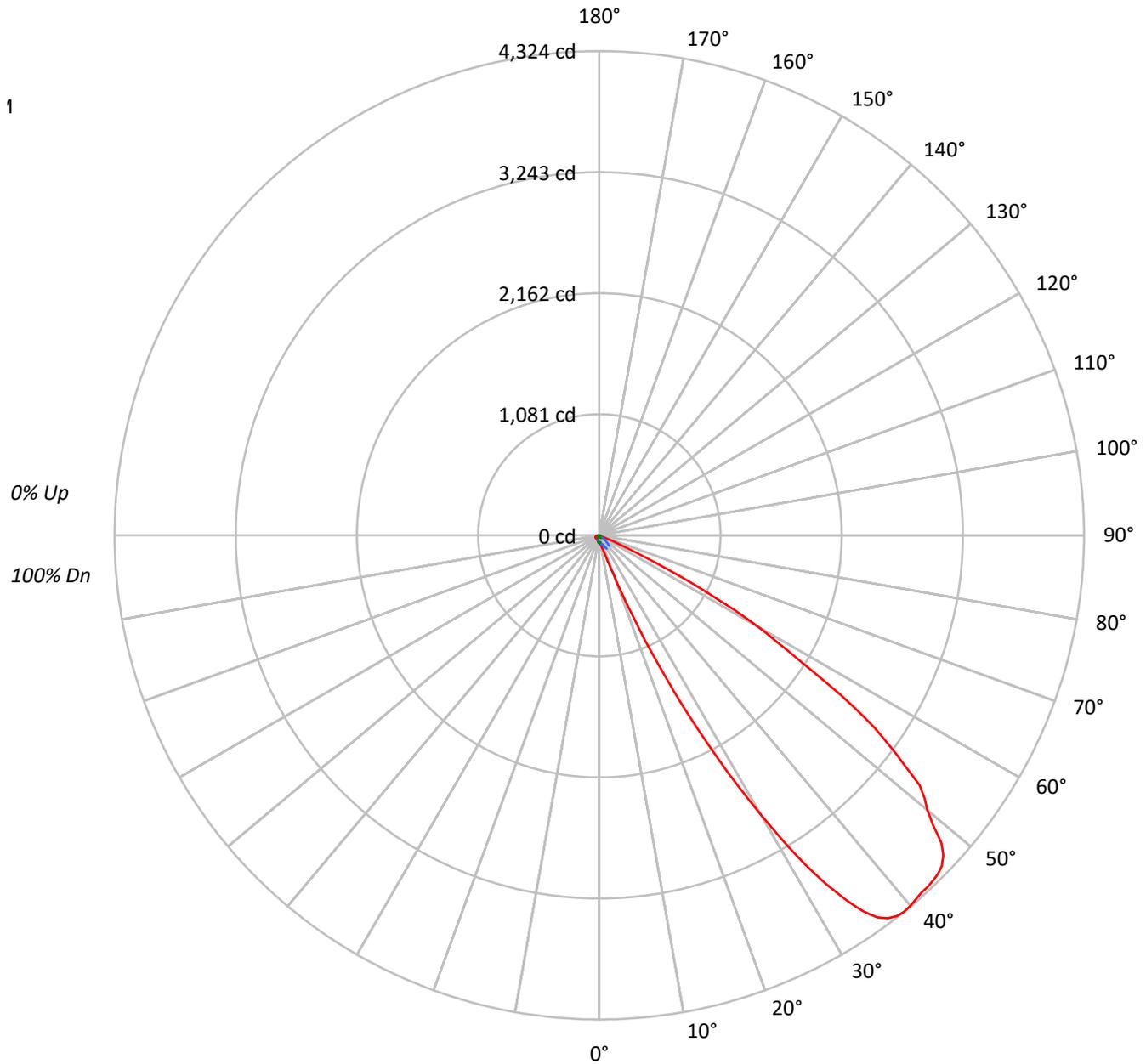
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1336.0 lumens  
Efficiency: N/A  
Efficacy: 65.5 lumens/watt  
Spacing Criteria (0/90/45): 3.99 / 0.73 / 1.54  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.4  
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	102	102	102	100
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	88	88	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	75	72
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	62	62	62	60
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	52	52	52	50
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	44	44	44	42
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	37	37	37	35
7	62	48	39	32	60	47	38	32	45	37	32	44	37	31	42	36	31	31	31	31	29
8	57	42	33	27	55	42	33	27	40	32	27	39	32	27	38	31	26	26	26	26	24
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	23	23	23	21
10	48	34	25	20	47	33	25	20	32	25	20	31	24	20	30	24	19	19	19	19	18

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

	0°	45°	90°	135°	180°
0°	11832	11832	11832	11832	11832
5°	13156	12724	11669	10598	10390
10°	15879	13518	10720	9653	9443
15°	26032	14656	9182	8540	8754
20°	68802	17320	7643	7643	8321
25°	265315	21454	6062	6993	8152
30°	572415	28557	4872	6841	8054
35°	861563	33786	4121	6707	8263
40°	970686	33925	3597	6902	8835
45°	1040828	26304	3288	7161	9572
50°	1023014	16424	2947	7556	10530
55°	900002	8107	2943	8467	11800
60°	569678	1688	3376	9300	13089
65°	116508	489	3505	9984	14507
70°	2467	604	3726	11128	16667
75°	2462	1664	4059	12244	18765
80°	2479	1190	4860	13389	21919
85°	2371	2371	9683	14623	24305

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 47°  
 Luminance: 1059626 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.4	0.5
10°-20°	21.2	1.6
20°-30°	103.8	7.8
30°-40°	337.5	25.3
40°-50°	465.3	34.8
50°-60°	324.1	24.3
60°-70°	61.5	4.6
70°-80°	11.1	0.8
80°-90°	5.1	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°	131.4	9.8
0°-40°	468.9	35.1
0°-60°	1258.3	94.2
0°-90°	1336.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1336.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	69	69	69	69	69	
5°	76	74	68	61	60	8
15°	146	82	52	48	49	53
25°	1396	113	32	37	43	719
35°	4098	161	20	32	39	2476
45°	4273	108	14	29	39	3250
55°	2997	27	10	28	39	2562
65°	286	1	9	24	36	506
75°	4	2	6	18	28	4
85°	1	1	5	7	12	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
2.5°	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	69.9	68.7
5°	76.1	76.1	76.1	76.1	74.8	74.8	74.8	73.6	73.6	71.2	67.5
7.5°	81.0	81.0	81.0	81.0	79.8	78.5	77.3	77.3	76.1	69.9	65.0
10°	90.8	90.8	89.6	88.3	87.1	84.7	83.4	81.0	77.3	68.7	61.3
12.5°	110.4	108.0	106.7	104.3	100.6	95.7	90.8	87.1	78.5	66.3	57.7
15°	146.0	143.6	138.6	131.3	123.9	114.1	105.5	96.9	82.2	62.6	51.5
17.5°	208.6	201.2	193.9	181.6	163.2	146.0	127.6	111.7	87.1	58.9	46.6
20°	375.4	370.5	326.4	292.0	236.8	197.5	160.7	133.7	94.5	55.2	41.7
22.5°	774.2	722.7	650.3	532.5	414.7	305.5	222.1	168.1	101.8	50.3	36.8
25°	1396.2	1315.3	1159.4	932.5	688.3	487.1	321.5	219.6	112.9	45.4	31.9
27.5°	2114.0	2031.8	1790.1	1477.2	1078.5	734.9	458.9	290.8	127.6	40.5	28.2
30°	2878.4	2808.4	2501.7	2068.6	1520.2	1029.4	614.7	363.2	143.6	35.6	24.5
31°	3186.3	3096.8	2765.5	2304.2	1727.5	1150.9	677.3	393.8	149.7	34.4	23.3
32°	3469.8	3367.9	3024.4	2529.9	1895.6	1282.1	746.0	420.8	154.6	31.9	22.1
33°	3713.9	3594.9	3263.6	2743.4	2080.9	1404.8	817.1	446.6	158.3	29.4	20.9
34°	3921.3	3818.2	3462.4	2958.1	2245.3	1522.6	887.1	472.4	160.7	28.2	19.6
35°	4097.9	4004.7	3652.6	3121.3	2406.0	1636.7	950.9	496.9	160.7	25.8	19.6
36°	4217.0	4136.0	3817.0	3288.2	2541.0	1733.7	1004.9	519.0	160.7	23.3	18.4
37°	4282.0	4203.5	3925.0	3425.6	2673.5	1829.4	1053.9	536.2	159.5	22.1	17.2
38°	4315.1	4246.4	4004.7	3537.2	2765.5	1898.1	1096.9	549.7	158.3	19.6	17.2
39°	4323.7	4266.0	4055.0	3618.2	2855.1	1966.8	1127.5	557.0	154.6	18.4	16.0
40°	4317.6	4267.3	4082.0	3690.6	2923.8	2020.8	1149.6	559.5	150.9	16.0	16.0
41°	4305.3	4266.0	4101.6	3740.9	2979.0	2055.1	1158.2	554.6	146.0	13.5	14.7
42°	4294.3	4251.3	4110.2	3775.3	3017.0	2072.3	1157.0	544.8	138.6	12.3	14.7
43°	4294.3	4245.2	4111.4	3797.3	3035.4	2073.5	1142.3	526.4	128.8	11.0	13.5
44°	4286.9	4241.5	4117.6	3812.1	3040.3	2062.5	1119.0	506.7	117.8	9.8	13.5
45°	4273.4	4225.5	4116.4	3813.3	3031.7	2035.5	1080.9	481.0	108.0	7.4	13.5
46°	4247.6	4204.7	4105.3	3804.7	3006.0	1996.2	1035.5	455.2	96.9	6.1	12.3
47°	4196.1	4163.0	4075.9	3775.3	2966.7	1938.5	981.5	425.7	88.3	4.9	12.3
48°	4107.8	4084.5	4025.6	3710.2	2891.9	1867.4	923.9	393.8	79.8	4.9	12.3
49°	3945.8	3927.4	3893.0	3605.9	2796.2	1780.3	861.3	358.3	71.2	3.7	12.3
50°	3818.2	3798.6	3728.6	3430.5	2658.8	1669.9	792.6	322.7	61.3	2.5	11.0
51°	3733.5	3701.6	3591.2	3226.8	2458.8	1522.6	717.8	287.1	51.5	2.5	11.0
52°	3626.8	3579.0	3441.5	3044.0	2276.0	1375.4	636.8	251.5	45.4	2.5	11.0
53°	3403.5	3386.3	3250.1	2847.7	2093.1	1234.3	553.3	222.1	39.3	2.5	11.0
54°	3208.4	3182.7	2997.4	2575.3	1894.4	1077.2	467.5	196.3	33.1	2.5	11.0
55°	2997.4	2947.1	2782.7	2345.9	1661.3	932.5	385.3	169.3	27.0	2.5	9.8
56°	2731.1	2687.0	2510.3	2100.5	1446.6	785.2	322.7	138.6	20.9	2.5	9.8
57°	2407.2	2366.7	2230.6	1798.7	1223.2	641.7	262.6	111.7	16.0	2.5	9.8
58°	2094.4	2049.0	1893.2	1509.1	987.7	509.2	219.6	90.8	12.3	2.5	9.8
59°	1853.9	1792.5	1591.3	1267.4	773.0	386.5	174.2	72.4	8.6	2.5	9.8
60°	1653.9	1603.6	1395.0	1055.2	606.1	284.6	128.8	55.2	4.9	2.5	9.8
62.5°	958.2	944.7	757.0	543.5	285.9	132.5	63.8	25.8	2.5	3.7	9.8
65°	285.9	249.1	193.9	115.3	73.6	44.2	23.3	8.6	1.2	3.7	8.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
67.5°	8.6	8.6	8.6	8.6	8.6	8.6	4.9	2.5	1.2	3.7	8.6
70°	4.9	3.7	3.7	3.7	3.7	2.5	2.5	1.2	1.2	3.7	7.4
72.5°	3.7	3.7	3.7	3.7	2.5	2.5	2.5	1.2	2.5	3.7	6.1
75°	3.7	2.5	2.5	2.5	2.5	1.2	1.2	1.2	2.5	3.7	6.1
77.5°	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	2.5	3.7	6.1
80°	2.5	2.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.7	4.9
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.7	4.9
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.7	4.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	3.7	3.7
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):**

	112.5°	135°	157.5°	180°
0°	68.7	68.7	68.7	68.7
2.5°	66.3	65.0	63.8	63.8
5°	63.8	61.3	61.3	60.1
7.5°	60.1	57.7	57.7	57.7
10°	56.4	55.2	55.2	54.0
12.5°	51.5	51.5	51.5	51.5
15°	47.9	47.9	49.1	49.1
17.5°	42.9	44.2	46.6	47.9
20°	39.3	41.7	44.2	45.4
22.5°	36.8	39.3	42.9	44.2
25°	33.1	36.8	41.7	42.9
27.5°	30.7	35.6	39.3	41.7
30°	28.2	34.4	38.0	40.5
31°	28.2	33.1	38.0	40.5
32°	27.0	31.9	38.0	39.3
33°	27.0	31.9	38.0	39.3
34°	25.8	31.9	36.8	39.3
35°	25.8	31.9	36.8	39.3
36°	24.5	30.7	36.8	39.3
37°	24.5	30.7	36.8	39.3
38°	23.3	30.7	36.8	39.3
39°	23.3	30.7	36.8	39.3
40°	23.3	30.7	36.8	39.3
41°	22.1	30.7	36.8	39.3
42°	22.1	30.7	36.8	39.3
43°	22.1	29.4	36.8	39.3
44°	22.1	29.4	36.8	39.3
45°	20.9	29.4	36.8	39.3
46°	20.9	29.4	36.8	39.3
47°	20.9	29.4	36.8	39.3
48°	20.9	29.4	36.8	39.3
49°	20.9	29.4	36.8	39.3
50°	19.6	28.2	36.8	39.3
51°	19.6	28.2	36.8	39.3
52°	19.6	28.2	36.8	39.3
53°	19.6	28.2	36.8	39.3
54°	18.4	28.2	36.8	39.3
55°	18.4	28.2	36.8	39.3
56°	18.4	28.2	36.8	38.0
57°	18.4	28.2	35.6	38.0
58°	18.4	27.0	35.6	38.0
59°	18.4	27.0	35.6	38.0
60°	18.4	27.0	35.6	38.0
62.5°	17.2	27.0	34.4	36.8
65°	16.0	24.5	34.4	35.6



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**CANDELA DISTRIBUTION (continued):**

	112.5°	135°	157.5°	180°
67.5°	16.0	23.3	31.9	34.4
70°	14.7	22.1	30.7	33.1
72.5°	12.3	20.9	28.2	30.7
75°	11.0	18.4	25.8	28.2
77.5°	9.8	16.0	23.3	24.5
80°	8.6	13.5	19.6	22.1
82.5°	6.1	9.8	16.0	17.2
85°	4.9	7.4	11.0	12.3
87.5°	3.7	3.7	6.1	6.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)