

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: P1313210

Luminaire Tested: LDSQA3D02R409727DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1313210  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R409727DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 97CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

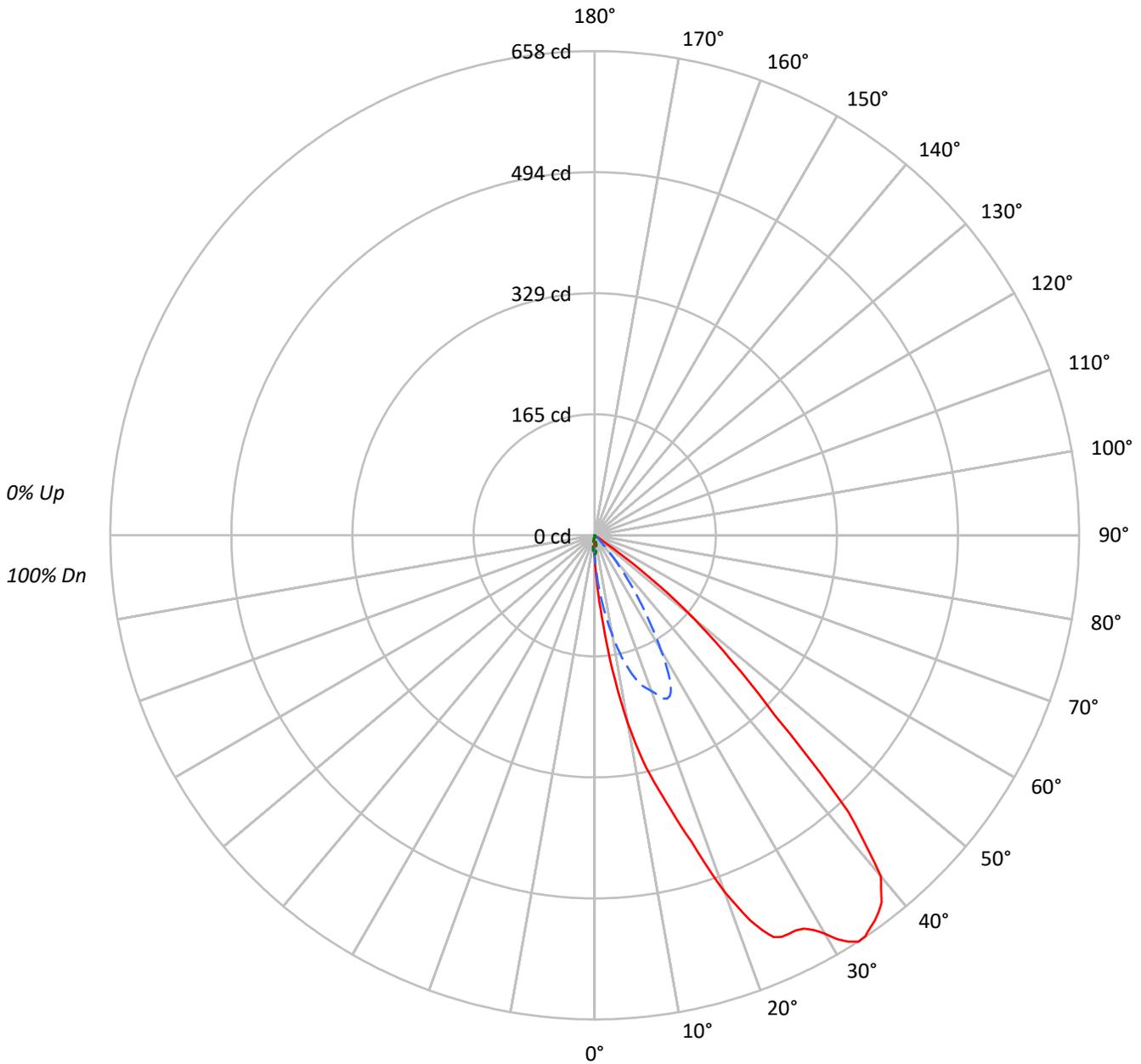
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 221.0 lumens  
Efficiency: N/A  
Efficacy: 61.4 lumens/watt  
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 3.6  
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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	89	86	84	83
3	99	91	85	80	97	90	84	80	87	82	78	84	81	77	82	79	76	82	79	76	74
4	92	83	77	72	90	82	76	71	80	74	70	78	73	69	76	72	68	76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	70	65	62	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	64	59	56	54
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	59	54	50	49
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46	55	50	46	44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	51	45	42	40
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	47	42	38	36

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

	0°	45°	90°	135°	180°
0°	4443	4443	4443	4443	4443
5°	18896	12880	3907	709	346
10°	45416	23958	2413	70	0
15°	66844	34804	1016	0	0
20°	94479	41255	367	0	0
25°	114434	45796	0	0	0
30°	124251	35816	0	0	0
35°	137017	20961	0	0	0
40°	135994	8521	0	0	0
45°	84223	2484	0	0	0
50°	46888	54	0	0	0
55°	4594	0	0	0	0
60°	0	0	69	0	0
65°	0	0	82	0	0
70°	0	101	201	0	0
75°	0	133	266	0	0
80°	0	198	397	0	0
85°	0	395	790	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°  
 Vertical Angle: 45°  
 Luminance: 84613 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.8	2.2
10°-20°	28.5	12.9
20°-30°	65.0	29.4
30°-40°	76.8	34.7
40°-50°	41.0	18.6
50°-60°	4.5	2.0
60°-70°	0.1	0.0
70°-80°	0.2	0.1
80°-90°	0.1	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
<b>0°-30°</b>	<b>98.4</b>	<b>44.5</b>
<b>0°-40°</b>	<b>175.1</b>	<b>79.2</b>
<b>0°-60°</b>	<b>220.6</b>	<b>99.8</b>
<b>0°-90°</b>	<b>221.0</b>	<b>100.0</b>
90°-120°	0.0	0.0
90°-150°	0.0	0.0
<b>90°-180°</b>	<b>0.0</b>	<b>0.0</b>
<b>0°-180°</b>	<b>221.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	26	26	26	26	26	
5°	109	74	23	4	2	15
15°	375	195	6	0	0	111
25°	602	241	0	0	0	273
35°	652	100	0	0	0	403
45°	346	10	0	0	0	285
55°	15	0	0	0	0	43
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	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°	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8
2.5°	60.2	59.0	59.8	58.2	58.2	54.5	54.7	51.7	47.2	36.0	25.6
5°	109.3	114.2	110.3	105.2	102.4	98.7	93.8	88.7	74.5	45.0	22.6
7.5°	183.0	182.6	176.1	170.6	164.2	154.5	145.3	132.9	106.0	51.5	18.7
10°	259.7	258.3	251.0	246.3	234.3	220.2	201.5	181.5	137.0	53.7	13.8
12.5°	323.6	321.8	315.7	307.7	294.5	276.8	256.6	230.4	169.5	51.3	9.0
15°	374.9	374.5	368.6	357.8	344.0	326.7	303.9	272.3	195.2	45.0	5.7
17.5°	435.8	438.2	427.6	416.0	396.1	371.8	344.0	307.9	214.1	37.2	3.7
20°	515.5	512.1	502.3	485.4	466.3	437.2	397.7	346.2	225.1	28.9	2.0
21°	540.0	538.5	528.4	512.7	491.5	462.0	421.3	365.7	230.2	25.8	1.6
22°	564.8	562.3	554.4	539.1	519.2	485.8	441.0	385.9	236.7	22.6	1.0
23°	583.3	582.3	576.2	561.1	540.6	508.2	462.4	404.6	241.2	19.5	0.6
24°	597.6	596.3	590.2	578.8	561.1	527.3	484.0	424.8	243.0	16.9	0.2
25°	602.2	602.9	599.2	590.2	575.4	541.6	500.1	440.6	241.0	14.5	0.0
26°	602.4	604.3	601.6	596.5	584.3	553.0	515.1	450.0	235.7	12.2	0.0
27°	602.4	604.3	601.6	597.8	585.8	559.5	523.3	451.0	227.5	10.4	0.0
28°	605.3	606.3	602.9	598.2	585.1	561.5	525.5	444.9	214.5	9.0	0.0
29°	613.2	612.2	606.5	600.2	584.5	561.5	518.8	433.3	198.2	7.5	0.0
30°	624.8	624.8	615.9	605.9	587.4	561.3	508.0	412.3	180.1	6.1	0.0
31°	640.5	639.1	630.1	615.3	593.5	561.3	492.1	389.1	163.4	5.3	0.0
32°	651.1	650.3	641.7	624.2	603.5	561.3	475.0	363.5	145.3	4.3	0.0
33°	658.4	656.8	647.0	628.9	609.6	558.5	455.9	336.0	129.0	3.5	0.0
34°	657.4	657.0	646.8	628.1	608.3	546.7	433.7	305.5	114.0	2.8	0.0
35°	651.7	651.7	639.3	619.9	599.6	529.4	411.7	279.4	99.7	2.0	0.0
36°	647.4	645.8	631.8	610.2	584.9	502.1	379.2	253.2	84.5	1.6	0.0
37°	641.1	638.1	622.4	599.2	564.2	472.6	345.0	229.8	71.4	1.0	0.0
38°	633.0	628.3	609.2	586.4	541.4	438.6	310.2	203.5	59.4	0.6	0.0
39°	618.1	614.2	594.5	569.9	514.1	402.8	276.4	178.9	48.0	0.2	0.0
40°	604.9	598.2	575.8	547.5	482.2	362.3	242.8	154.7	37.9	0.0	0.0
42.5°	510.0	502.9	497.8	469.7	384.1	260.1	169.5	99.1	19.7	0.0	0.0
45°	345.8	347.4	331.5	312.6	253.4	169.5	106.0	55.2	10.2	0.0	0.0
47.5°	252.2	247.9	226.3	190.5	148.6	99.1	55.4	26.7	4.1	0.0	0.0
50°	175.0	166.9	147.4	120.5	80.8	47.2	24.4	12.4	0.2	0.0	0.0
52.5°	95.0	89.3	75.7	55.0	33.6	18.1	9.8	5.1	0.0	0.0	0.0
55°	15.3	10.6	11.0	9.4	7.3	5.3	3.1	0.6	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.2
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4	0.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4	0.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4	0.4
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):**

	112.5°	135°	157.5°	180°
0°	25.8	25.8	25.8	25.8
2.5°	17.3	11.8	9.0	7.7
5°	10.0	4.1	2.2	2.0
7.5°	4.9	1.4	0.8	0.8
10°	2.0	0.4	0.0	0.0
12.5°	0.6	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0
21°	0.0	0.0	0.0	0.0
22°	0.0	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	0.2	0.0	0.0	0.0
67.5°	0.2	0.0	0.0	0.0
70°	0.2	0.0	0.0	0.0
72.5°	0.2	0.0	0.0	0.0
75°	0.2	0.0	0.0	0.0
77.5°	0.2	0.0	0.0	0.0
80°	0.2	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	112.5°	135°	157.5°	180°
82.5°	0.2	0.0	0.0	0.0
85°	0.2	0.0	0.0	0.0
87.5°	0.2	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)