

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: P1317069

Luminaire Tested: LDSQA3D02R409827DE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

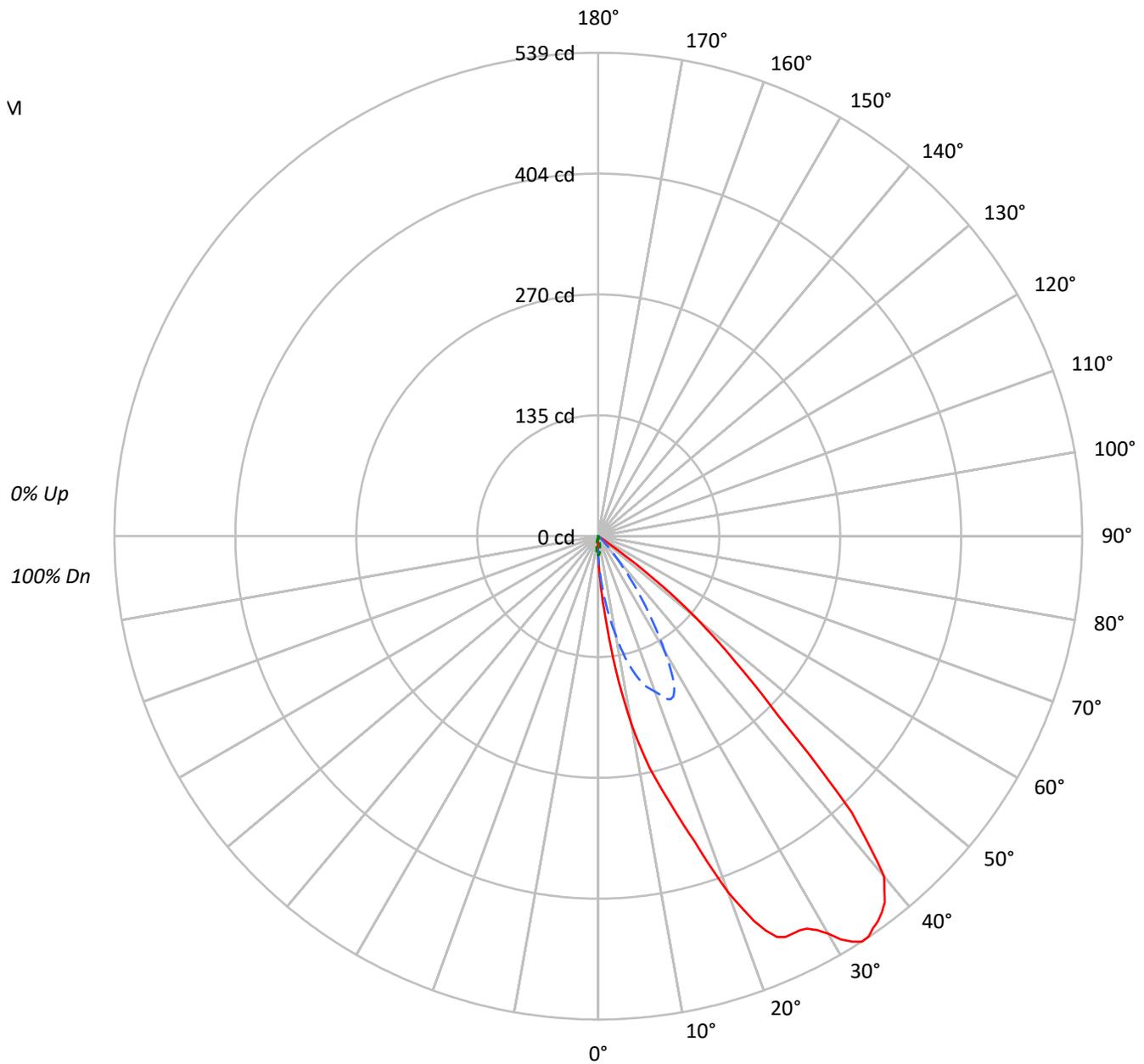
Test Method: LM-79-2019  
Report Number: P1317069  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R409827DE010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 98CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 181.0 lumens  
Efficiency: N/A  
Efficacy: 50.3 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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CATALOG NUMBER: LDSQA3D02R409827DE010 3LSQCA30R 1MMS

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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°	3651	3651	3651	3651	3651
5°	15473	10546	3198	571	294
10°	37197	19621	1976	52	0
15°	54737	28510	838	0	0
20°	77379	33796	312	0	0
25°	93721	37511	0	0	0
30°	101760	29333	0	0	0
35°	112208	17177	0	0	0
40°	111376	6969	0	0	0
45°	68976	2022	0	0	0
50°	38421	54	0	0	0
55°	3753	0	0	0	0
60°	0	0	69	0	0
65°	0	0	82	0	0
70°	0	101	151	0	0
75°	0	133	200	0	0
80°	0	198	298	0	0
85°	0	395	593	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°  
 Vertical Angle: 45°  
 Luminance: 69293 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.0	2.2
10°-20°	23.3	12.9
20°-30°	53.3	29.4
30°-40°	62.9	34.7
40°-50°	33.6	18.6
50°-60°	3.7	2.0
60°-70°	0.1	0.0
70°-80°	0.1	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
0°-30°	80.6	44.5
0°-40°	143.4	79.2
0°-60°	180.7	99.8
0°-90°	181.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	181.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	21	21	21	21	21	
5°	90	61	18	3	2	13
15°	307	160	5	0	0	91
25°	493	197	0	0	0	224
35°	534	82	0	0	0	330
45°	283	8	0	0	0	233
55°	12	0	0	0	0	35
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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
2.5°	49.3	48.3	49.0	47.7	47.7	44.7	44.8	42.3	38.7	29.5	21.0
5°	89.5	93.5	90.3	86.2	83.8	80.8	76.8	72.7	61.0	36.8	18.5
7.5°	149.9	149.5	144.2	139.7	134.5	126.5	119.0	108.8	86.8	42.2	15.3
10°	212.7	211.5	205.5	201.7	191.9	180.4	165.0	148.7	112.2	44.0	11.3
12.5°	265.0	263.5	258.5	252.0	241.2	226.7	210.2	188.7	138.9	42.0	7.3
15°	307.0	306.7	301.9	293.0	281.7	267.5	248.9	223.0	159.9	36.8	4.7
17.5°	356.9	358.9	350.2	340.7	324.4	304.5	281.7	252.2	175.4	30.5	3.0
20°	422.2	419.4	411.4	397.6	381.9	358.1	325.7	283.5	184.4	23.7	1.7
21°	442.2	441.1	432.7	419.9	402.6	378.4	345.0	299.5	188.5	21.2	1.3
22°	462.6	460.6	454.1	441.6	425.2	397.9	361.2	316.0	193.9	18.5	0.8
23°	477.7	476.9	471.9	459.6	442.7	416.2	378.7	331.4	197.5	16.0	0.5
24°	489.4	488.4	483.4	474.1	459.6	431.9	396.4	347.9	199.0	13.8	0.2
25°	493.2	493.7	490.7	483.4	471.2	443.6	409.6	360.9	197.4	11.8	0.0
26°	493.4	494.9	492.7	488.6	478.6	452.9	421.9	368.6	193.0	10.0	0.0
27°	493.4	494.9	492.7	489.6	479.7	458.2	428.6	369.4	186.4	8.5	0.0
28°	495.7	496.6	493.7	489.9	479.2	459.9	430.4	364.4	175.7	7.3	0.0
29°	502.2	501.4	496.7	491.6	478.7	459.9	424.9	354.9	162.4	6.2	0.0
30°	511.7	511.7	504.4	496.2	481.1	459.7	416.1	337.7	147.5	5.0	0.0
31°	524.6	523.4	516.1	503.9	486.1	459.7	403.1	318.7	133.9	4.3	0.0
32°	533.2	532.6	525.6	511.2	494.2	459.7	389.1	297.7	119.0	3.5	0.0
33°	539.2	537.9	529.9	515.1	499.2	457.4	373.4	275.2	105.7	2.8	0.0
34°	538.4	538.1	529.7	514.4	498.2	447.7	355.2	250.2	93.3	2.3	0.0
35°	533.7	533.7	523.6	507.7	491.1	433.6	337.2	228.9	81.7	1.7	0.0
36°	530.2	528.9	517.4	499.7	479.1	411.2	310.5	207.4	69.2	1.3	0.0
37°	525.1	522.6	509.7	490.7	462.1	387.1	282.5	188.2	58.5	0.8	0.0
38°	518.4	514.6	498.9	480.2	443.4	359.2	254.0	166.7	48.7	0.5	0.0
39°	506.2	503.1	486.9	466.7	421.1	329.9	226.4	146.5	39.3	0.2	0.0
40°	495.4	489.9	471.6	448.4	394.9	296.7	198.9	126.7	31.0	0.0	0.0
42.5°	417.7	411.9	407.7	384.7	314.5	213.0	138.9	81.2	16.2	0.0	0.0
45°	283.2	284.5	271.5	256.0	207.5	138.9	86.8	45.2	8.3	0.0	0.0
47.5°	206.5	203.0	185.4	156.0	121.7	81.2	45.3	21.8	3.3	0.0	0.0
50°	143.4	136.7	120.7	98.7	66.2	38.7	20.0	10.2	0.2	0.0	0.0
52.5°	77.8	73.2	62.0	45.0	27.5	14.8	8.0	4.2	0.0	0.0	0.0
55°	12.5	8.7	9.0	7.7	6.0	4.3	2.5	0.5	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	0.3	0.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.3	0.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.3	0.3



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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	0.3	0.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.3	0.3
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°	21.2	21.2	21.2	21.2
2.5°	14.2	9.7	7.3	6.3
5°	8.2	3.3	1.8	1.7
7.5°	4.0	1.2	0.7	0.7
10°	1.7	0.3	0.0	0.0
12.5°	0.5	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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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)