

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: P1312133

Luminaire Tested: LDSQA3D02R509050DE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

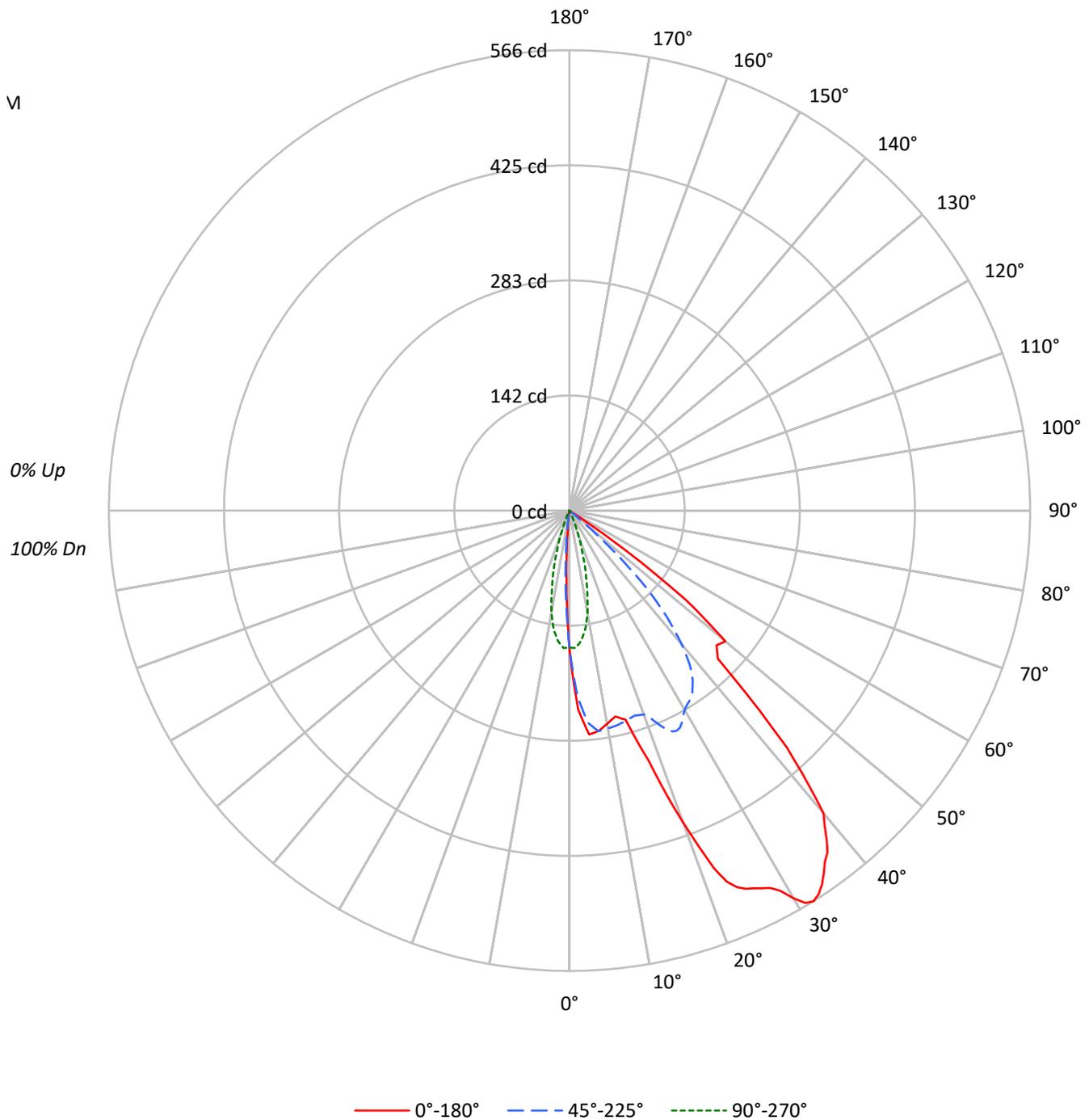
Test Method: LM-79-2019  
Report Number: P1312133  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R509050DE010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R50 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 271.0 lumens  
Efficiency: N/A  
Efficacy: 75.3 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24  
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 (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





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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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37

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

	0°	45°	90°	135°	180°
0°	28985	28985	28985	28985	28985
5°	47750	45312	27851	8264	4132
10°	46535	47550	22315	420	560
15°	47445	47730	13372	428	143
20°	74776	48861	5498	0	0
25°	97484	56932	1311	0	0
30°	109416	56299	60	0	0
35°	114499	55442	0	0	0
40°	109240	48157	0	0	0
45°	62741	31785	0	0	0
50°	66956	3644	0	0	0
55°	19067	0	0	0	0
60°	0	0	103	0	0
65°	0	122	122	0	0
70°	0	151	151	0	0
75°	0	200	200	0	0
80°	0	298	496	298	0
85°	0	593	988	593	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 45°  
 Luminance: 69268 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.1	5.2
10°-20°	35.6	13.1
20°-30°	68.4	25.2
30°-40°	79.6	29.4
40°-50°	57.0	21.0
50°-60°	15.9	5.8
60°-70°	0.1	0.0
70°-80°	0.2	0.1
80°-90°	0.2	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°	118.1	43.6
0°-40°	197.7	72.9
0°-60°	270.5	99.8
0°-90°	271.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	271.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	168	168	168	168	168	
5°	276	262	161	48	24	25
15°	266	268	75	2	1	86
25°	513	300	7	0	0	233
35°	545	264	0	0	0	337
45°	258	130	0	0	0	242
55°	64	0	0	0	0	80
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°	168.3	168.3	168.3	168.3	168.3	168.3	168.3	168.3	168.3	168.3	168.3
2.5°	244.5	245.9	246.1	243.0	243.5	239.0	239.2	236.0	228.3	201.5	169.1
5°	276.2	275.4	276.2	275.1	276.2	273.5	271.9	270.6	262.1	224.1	161.1
7.5°	273.3	272.2	273.8	274.3	276.2	275.4	275.6	276.4	273.5	236.3	147.5
10°	266.1	265.8	266.6	266.6	268.7	269.0	270.1	271.7	271.9	240.6	127.6
12.5°	259.2	258.4	258.4	258.1	259.2	258.9	261.6	265.3	270.3	237.9	100.2
15°	266.1	265.3	264.2	261.3	259.2	256.8	257.0	259.4	267.7	231.0	75.0
17.5°	321.9	317.6	312.3	303.0	293.2	276.2	266.1	259.7	264.5	220.4	50.0
20°	408.0	406.2	397.7	382.5	366.6	341.6	310.5	285.5	266.6	207.1	30.0
21°	440.7	439.7	430.6	416.5	398.5	368.1	336.3	306.2	270.9	201.5	23.7
22°	474.2	470.2	463.0	447.4	428.5	398.2	362.6	329.3	279.4	194.3	18.1
23°	495.7	493.3	485.6	473.1	455.1	425.6	389.1	353.0	287.6	186.3	13.6
24°	506.9	506.1	500.0	491.2	475.8	445.8	411.2	374.0	294.5	177.0	9.8
25°	513.0	510.4	506.6	500.3	488.6	462.5	431.7	392.3	299.6	167.7	6.9
26°	516.7	515.1	509.3	503.7	492.5	471.3	445.0	403.5	300.9	156.3	4.8
27°	521.0	517.3	511.7	505.0	492.5	473.9	450.0	408.3	299.3	144.6	3.2
28°	525.5	522.9	515.1	506.6	491.8	473.9	448.2	401.9	294.5	133.4	1.9
29°	534.3	530.8	521.3	508.8	492.0	473.4	441.0	388.6	288.1	120.9	1.1
30°	550.2	543.1	531.4	513.8	493.9	472.3	429.0	368.7	283.1	106.9	0.3
31°	562.7	558.7	545.2	523.1	499.2	469.4	414.9	349.0	279.6	94.6	0.0
32°	566.2	563.3	553.4	532.7	508.2	467.0	399.0	329.9	277.0	81.1	0.0
33°	562.2	560.3	550.0	531.1	510.6	463.8	380.6	311.0	274.1	68.8	0.0
34°	554.7	552.4	543.3	524.2	504.5	450.0	363.1	296.6	269.8	57.4	0.0
35°	544.6	542.8	533.5	514.6	493.3	428.5	345.6	287.1	263.7	46.0	0.0
36°	533.8	533.2	521.3	502.7	479.0	407.8	324.3	279.9	257.6	36.4	0.0
37°	526.6	523.9	510.9	492.5	462.0	383.6	307.3	277.5	249.1	28.2	0.0
38°	513.5	514.1	499.2	482.4	444.7	362.6	293.5	275.6	239.5	20.5	0.0
39°	498.1	498.4	483.0	468.6	424.2	340.5	282.0	273.8	227.5	13.0	0.0
40°	485.9	485.6	468.1	452.7	402.2	319.8	275.9	271.1	214.2	7.4	0.0
42.5°	395.0	396.6	398.7	405.1	350.3	283.4	270.1	256.2	176.5	0.0	0.0
45°	257.6	263.7	265.3	284.4	284.2	268.5	256.2	229.7	130.5	0.0	0.0
47.5°	245.1	246.9	250.4	257.8	261.8	254.1	229.1	191.9	71.2	0.0	0.0
50°	249.9	249.6	250.4	250.4	243.2	223.3	187.9	141.7	13.6	0.0	0.0
52.5°	179.4	186.1	193.2	196.4	187.1	166.1	137.2	83.2	0.0	0.0	0.0
55°	63.5	61.4	59.8	65.4	64.1	72.0	59.5	19.4	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.3	1.1	2.4	3.2	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.5



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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	0.3	0.3	0.3	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.5
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°	168.3	168.3	168.3	168.3
2.5°	134.8	103.4	83.7	85.1
5°	94.6	47.8	29.5	23.9
7.5°	56.6	14.6	2.9	2.4
10°	26.6	2.4	2.7	3.2
12.5°	8.0	2.1	2.9	2.7
15°	2.1	2.4	1.3	0.8
17.5°	0.8	1.1	0.0	0.0
20°	0.5	0.0	0.0	0.0
21°	0.5	0.0	0.0	0.0
22°	0.3	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°	0.3	0.0	0.0	0.0
67.5°	0.3	0.0	0.0	0.0
70°	0.3	0.0	0.0	0.0
72.5°	0.3	0.0	0.0	0.0
75°	0.3	0.0	0.0	0.0
77.5°	0.3	0.0	0.0	0.0
80°	0.3	0.3	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	112.5°	135°	157.5°	180°
82.5°	0.3	0.3	0.0	0.0
85°	0.3	0.3	0.0	0.0
87.5°	0.3	0.3	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)