

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: P1312115

Luminaire Tested: LDSQA3D02R409050DE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1312115  
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: LDSQA3D02R409050DE010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R40 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

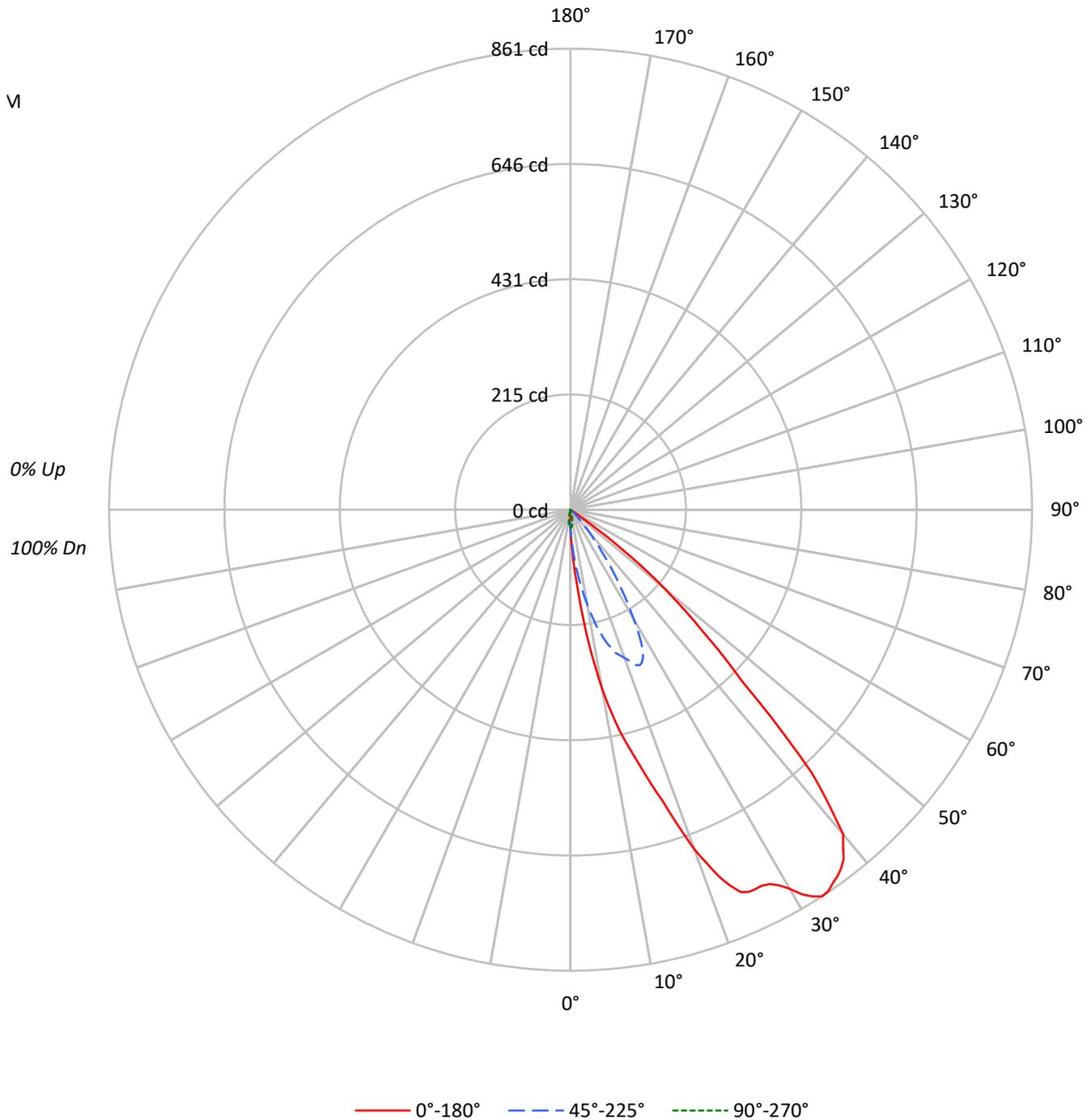
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 289.0 lumens  
Efficiency: N/A  
Efficacy: 80.3 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 (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	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°	5821	5821	5821	5821	5821
5°	24705	16839	5100	916	467
10°	59389	31321	3165	87	0
15°	87420	45502	1337	0	0
20°	123564	53956	495	0	0
25°	149646	59877	0	0	0
30°	162493	46833	0	0	0
35°	179171	27416	0	0	0
40°	177833	11129	0	0	0
45°	110138	3239	0	0	0
50°	61329	80	0	0	0
55°	6005	0	0	0	0
60°	0	0	103	0	0
65°	0	0	122	0	0
70°	0	151	252	0	0
75°	0	200	333	0	0
80°	0	298	496	0	0
85°	0	593	988	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°  
 Vertical Angle: 45°  
 Luminance: 110649 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.3	2.2
10°-20°	37.3	12.9
20°-30°	85.0	29.4
30°-40°	100.4	34.7
40°-50°	53.6	18.6
50°-60°	5.8	2.0
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
<b>0°-30°</b>	<b>128.6</b>	<b>44.5</b>
<b>0°-40°</b>	<b>229.0</b>	<b>79.2</b>
<b>0°-60°</b>	<b>288.5</b>	<b>99.8</b>
<b>0°-90°</b>	<b>289.0</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>289.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	34	34	34	34	34	
5°	143	97	30	5	3	20
15°	490	255	8	0	0	146
25°	788	315	0	0	0	358
35°	852	130	0	0	0	526
45°	452	13	0	0	0	373
55°	20	0	0	0	0	56
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°	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8
2.5°	78.8	77.2	78.2	76.1	76.1	71.3	71.6	67.6	61.7	47.1	33.5
5°	142.9	149.3	144.3	137.6	133.9	129.1	122.7	116.0	97.4	58.8	29.5
7.5°	239.3	238.7	230.2	223.0	214.8	202.0	190.0	173.8	138.7	67.3	24.5
10°	339.6	337.7	328.2	322.0	306.3	288.0	263.5	237.4	179.1	70.3	18.1
12.5°	423.2	420.8	412.8	402.4	385.1	362.0	335.6	301.3	221.7	67.1	11.7
15°	490.3	489.7	482.0	467.9	449.8	427.2	397.4	356.1	255.2	58.8	7.5
17.5°	569.8	573.0	559.2	544.0	517.9	486.3	449.8	402.7	280.0	48.7	4.8
20°	674.2	669.6	656.9	634.8	609.8	571.7	520.1	452.7	294.4	37.8	2.7
21°	706.1	704.2	690.9	670.4	642.8	604.2	550.9	478.3	301.0	33.8	2.1
22°	738.6	735.4	725.0	705.0	679.0	635.3	576.8	504.6	309.5	29.5	1.3
23°	762.8	761.5	753.5	733.8	706.9	664.6	604.7	529.1	315.4	25.6	0.8
24°	781.4	779.8	771.8	756.9	733.8	689.6	632.9	555.5	317.8	22.1	0.3
25°	787.5	788.3	783.6	771.8	752.4	708.2	653.9	576.2	315.1	18.9	0.0
26°	787.8	790.2	786.7	780.1	764.1	723.1	673.6	588.5	308.2	16.0	0.0
27°	787.8	790.2	786.7	781.7	766.0	731.7	684.3	589.8	297.6	13.6	0.0
28°	791.5	792.9	788.3	782.2	765.2	734.3	687.2	581.8	280.5	11.7	0.0
29°	801.9	800.6	793.1	784.9	764.4	734.3	678.4	566.6	259.2	9.8	0.0
30°	817.1	817.1	805.4	792.3	768.1	734.0	664.3	539.2	235.5	8.0	0.0
31°	837.6	835.7	824.0	804.6	776.1	734.0	643.6	508.9	213.7	6.9	0.0
32°	851.4	850.4	839.2	816.3	789.1	734.0	621.2	475.3	190.0	5.6	0.0
33°	861.0	858.9	846.1	822.4	797.1	730.3	596.2	439.4	168.7	4.5	0.0
34°	859.7	859.1	845.8	821.3	795.5	714.9	567.2	399.5	149.0	3.7	0.0
35°	852.2	852.2	836.0	810.7	784.1	692.3	538.4	365.4	130.4	2.7	0.0
36°	846.6	844.5	826.1	797.9	764.9	656.6	495.8	331.1	110.5	2.1	0.0
37°	838.4	834.4	813.9	783.6	737.8	618.0	451.1	300.5	93.4	1.3	0.0
38°	827.7	821.6	796.6	766.8	708.0	573.6	405.6	266.2	77.7	0.8	0.0
39°	808.3	803.2	777.4	745.2	672.3	526.7	361.4	233.9	62.8	0.3	0.0
40°	791.0	782.2	752.9	716.0	630.5	473.8	317.5	202.3	49.5	0.0	0.0
42.5°	667.0	657.7	651.0	614.3	502.2	340.1	221.7	129.6	25.8	0.0	0.0
45°	452.2	454.3	433.6	408.8	331.4	221.7	138.7	72.1	13.3	0.0	0.0
47.5°	329.8	324.2	296.0	249.1	194.3	129.6	72.4	34.9	5.3	0.0	0.0
50°	228.9	218.2	192.7	157.6	105.7	61.7	31.9	16.2	0.3	0.0	0.0
52.5°	124.3	116.8	99.0	71.9	43.9	23.7	12.8	6.7	0.0	0.0	0.0
55°	20.0	13.8	14.4	12.2	9.6	6.9	4.0	0.8	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.3	0.3
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	0.0	0.3	0.3
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.5	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	0.5	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.5	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°	33.8	33.8	33.8	33.8
2.5°	22.6	15.4	11.7	10.1
5°	13.0	5.3	2.9	2.7
7.5°	6.4	1.9	1.1	1.1
10°	2.7	0.5	0.0	0.0
12.5°	0.8	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°	0.3	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	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)