

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: P1307661

Luminaire Tested: LDSQA3D02R409027DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307661
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: LDSQA3D02R409027DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

Summary

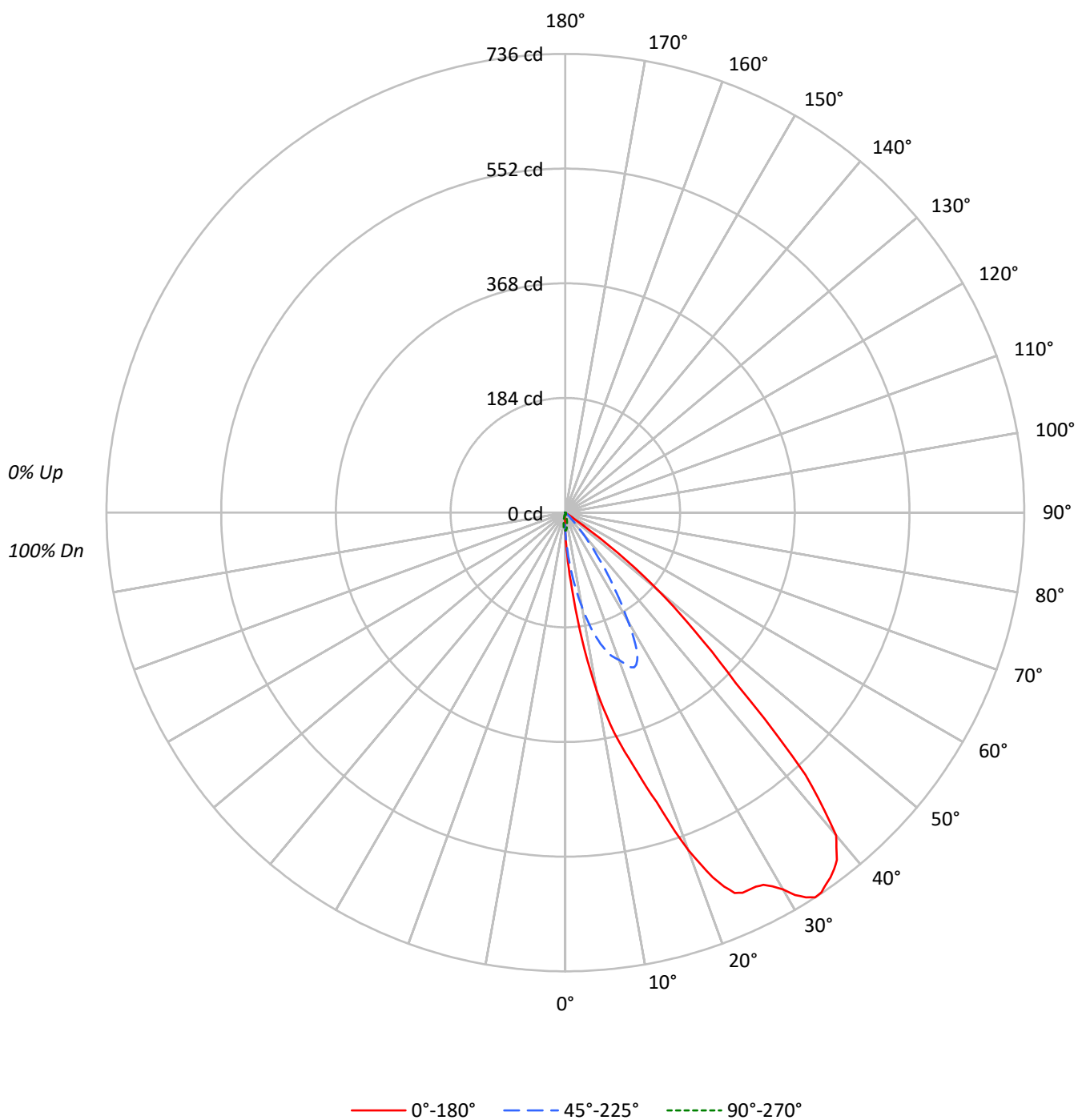
Lumens per Lamp: N/A
Luminaire Lumens: 247.0 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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	98	96	96	94	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83		
3	99	91	85	80	97	90	84	80	87	82	78	84	81	77	82	79	76	74		
4	92	83	77	72	90	82	76	71	80	74	70	78	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54		
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49		
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40		
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4977	4977	4977	4977	4977
5°	21126	14401	4357	778	398
10°	50768	26774	2711	87	0
15°	74707	38887	1141	0	0
20°	105603	46112	422	0	0
25°	127907	51174	0	0	0
30°	138868	40032	0	0	0
35°	153142	23442	0	0	0
40°	151979	9510	0	0	0
45°	94136	2777	0	0	0
50°	52407	54	0	0	0
55°	5134	0	0	0	0
60°	0	0	69	0	0
65°	0	0	82	0	0
70°	0	101	252	0	0
75°	0	133	333	0	0
80°	0	198	496	0	0
85°	0	395	988	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 94574 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.4	2.2
10°-20°	31.8	12.9
20°-30°	72.7	29.4
30°-40°	85.8	34.7
40°-50°	45.8	18.6
50°-60°	5.0	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
0°-30°	109.9	44.5
0°-40°	195.7	79.2
0°-60°	246.6	99.8
0°-90°	247.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	247.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	29	29	29	29	29	
5°	122	83	25	4	2	17
15°	419	218	6	0	0	124
25°	673	269	0	0	0	306
35°	728	112	0	0	0	450
45°	386	11	0	0	0	319
55°	17	0	0	0	0	48
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°	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9
2.5°	67.3	66.0	66.9	65.1	65.1	61.0	61.2	57.8	52.8	40.3	28.7
5°	122.2	127.6	123.3	117.6	114.4	110.3	104.9	99.2	83.3	50.3	25.2
7.5°	204.5	204.0	196.8	190.6	183.6	172.7	162.4	148.5	118.5	57.6	20.9
10°	290.3	288.7	280.5	275.2	261.8	246.1	225.2	202.9	153.1	60.1	15.5
12.5°	361.7	359.6	352.8	343.9	329.2	309.4	286.8	257.5	189.5	57.3	10.0
15°	419.0	418.6	412.0	399.9	384.4	365.1	339.6	304.4	218.1	50.3	6.4
17.5°	487.0	489.7	477.9	465.0	442.7	415.6	384.4	344.2	239.3	41.6	4.1
20°	576.2	572.3	561.4	542.5	521.1	488.6	444.5	386.9	251.6	32.3	2.3
21°	603.5	601.9	590.5	573.0	549.3	516.4	470.9	408.8	257.3	28.9	1.8
22°	631.2	628.5	619.6	602.6	580.3	543.0	492.9	431.3	264.6	25.2	1.1
23°	651.9	650.8	644.0	627.1	604.2	568.0	516.8	452.2	269.6	21.8	0.7
24°	667.9	666.5	659.7	646.9	627.1	589.4	540.9	474.7	271.6	18.9	0.2
25°	673.1	673.8	669.7	659.7	643.1	605.3	558.9	492.5	269.3	16.2	0.0
26°	673.3	675.4	672.4	666.7	653.1	618.0	575.7	502.9	263.4	13.6	0.0
27°	673.3	675.4	672.4	668.1	654.7	625.3	584.8	504.1	254.3	11.6	0.0
28°	676.5	677.6	673.8	668.5	654.0	627.6	587.3	497.3	239.8	10.0	0.0
29°	685.4	684.2	677.9	670.8	653.3	627.6	579.8	484.3	221.6	8.4	0.0
30°	698.3	698.3	688.3	677.2	656.5	627.4	567.8	460.9	201.3	6.8	0.0
31°	715.9	714.3	704.3	687.7	663.3	627.4	550.0	434.9	182.7	5.9	0.0
32°	727.7	726.8	717.2	697.7	674.5	627.4	530.9	406.3	162.4	4.8	0.0
33°	735.9	734.1	723.1	702.9	681.3	624.2	509.5	375.6	144.2	3.9	0.0
34°	734.7	734.3	722.9	702.0	679.9	611.0	484.7	341.4	127.4	3.2	0.0
35°	728.4	728.4	714.5	692.9	670.1	591.7	460.2	312.3	111.5	2.3	0.0
36°	723.6	721.8	706.1	682.0	653.8	561.2	423.8	283.0	94.4	1.8	0.0
37°	716.5	713.1	695.6	669.7	630.6	528.2	385.6	256.8	79.8	1.1	0.0
38°	707.4	702.2	680.8	655.3	605.1	490.2	346.7	227.5	66.4	0.7	0.0
39°	690.8	686.5	664.4	636.9	574.6	450.2	308.9	199.9	53.7	0.2	0.0
40°	676.0	668.5	643.5	611.9	538.9	404.9	271.4	172.9	42.3	0.0	0.0
42.5°	570.0	562.1	556.4	525.0	429.2	290.7	189.5	110.8	22.1	0.0	0.0
45°	386.5	388.3	370.6	349.4	283.2	189.5	118.5	61.6	11.4	0.0	0.0
47.5°	281.8	277.1	252.9	212.9	166.1	110.8	61.9	29.8	4.5	0.0	0.0
50°	195.6	186.5	164.7	134.7	90.3	52.8	27.3	13.9	0.2	0.0	0.0
52.5°	106.2	99.9	84.6	61.4	37.5	20.2	10.9	5.7	0.0	0.0	0.0
55°	17.1	11.8	12.3	10.5	8.2	5.9	3.4	0.7	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	0.5	0.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	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	0.2	0.2	0.5	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	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°	28.9	28.9	28.9	28.9
2.5°	19.3	13.2	10.0	8.6
5°	11.1	4.5	2.5	2.3
7.5°	5.5	1.6	0.9	0.9
10°	2.3	0.5	0.0	0.0
12.5°	0.7	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)