

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: P1319860

Luminaire Tested: LDSQA3D05R509840DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319860
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: LDSQA3D05R509840DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

Summary

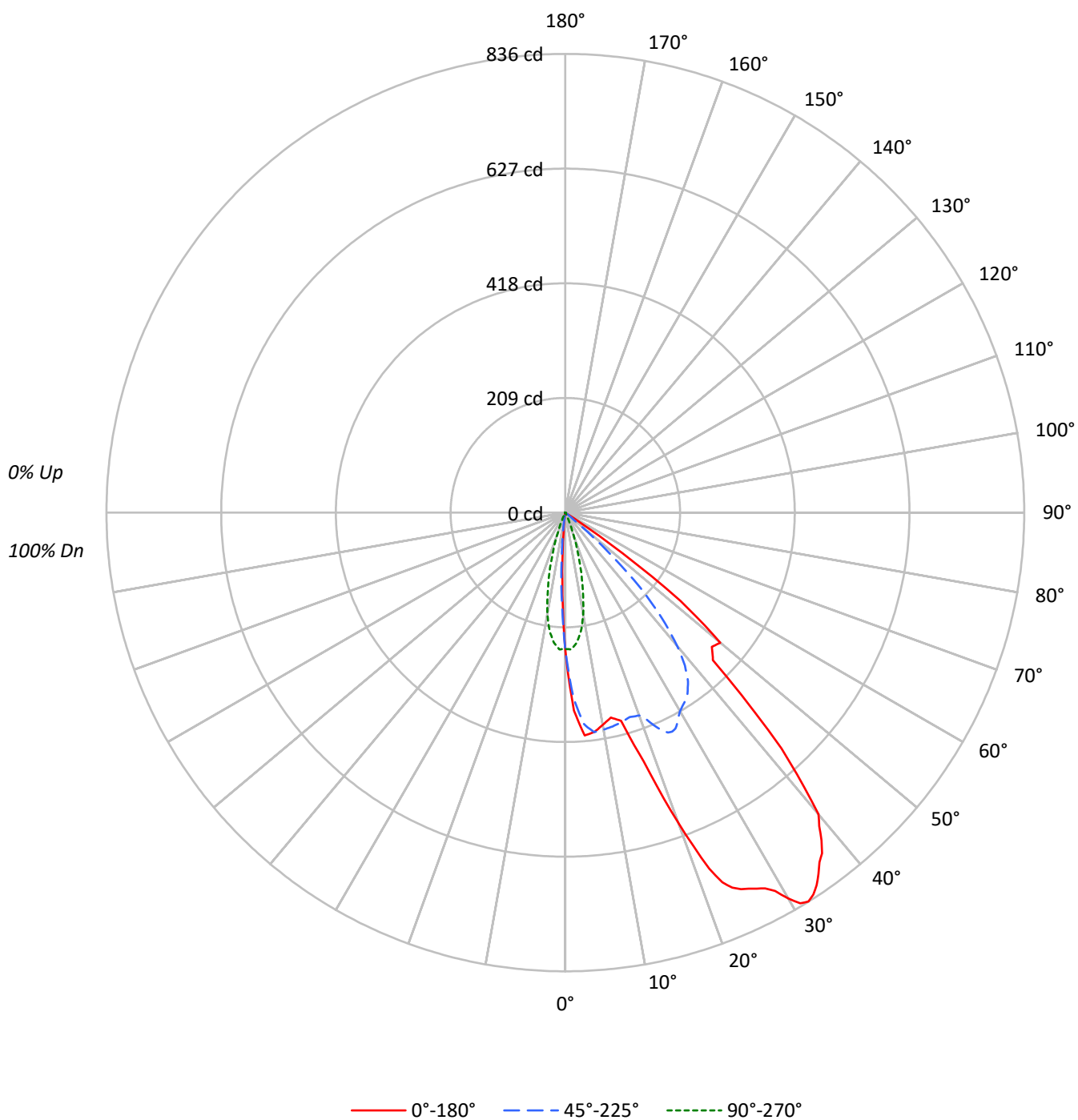
Lumens per Lamp: N/A
Luminaire Lumens: 400.0 lumens
Efficiency: N/A
Efficacy: 55.6 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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
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°	42780	42780	42780	42780	42780
5°	70466	66870	41111	12205	6103
10°	68675	70197	32930	612	822
15°	70018	70446	19720	624	214
20°	110369	72119	8119	0	0
25°	143888	84030	1938	0	0
30°	161499	83086	80	0	0
35°	169016	81827	0	0	0
40°	161241	71088	0	0	0
45°	92601	46910	0	0	0
50°	98813	5359	0	0	0
55°	28164	0	0	0	0
60°	0	0	138	0	0
65°	0	163	163	0	0
70°	0	201	201	0	0
75°	0	266	266	0	0
80°	0	397	793	397	0
85°	0	790	1581	790	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 102246 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.9	5.2
10°-20°	52.5	13.1
20°-30°	100.9	25.2
30°-40°	117.5	29.4
40°-50°	84.1	21.0
50°-60°	23.4	5.9
60°-70°	0.2	0.0
70°-80°	0.2	0.1
80°-90°	0.3	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°	174.3	43.6
0°-40°	291.8	73.0
0°-60°	399.3	99.8
0°-90°	400.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	400.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	248	248	248	248	248	
5°	408	387	238	71	35	37
15°	393	395	111	4	1	127
25°	757	442	10	0	0	344
35°	804	389	0	0	0	497
45°	380	193	0	0	0	358
55°	94	0	0	0	0	118
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	1	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°	248.4	248.4	248.4	248.4	248.4	248.4	248.4	248.4	248.4	248.4	248.4
2.5°	361.0	362.9	363.3	358.6	359.4	352.7	353.1	348.4	337.0	297.4	249.5
5°	407.6	406.5	407.6	406.1	407.6	403.7	401.4	399.4	386.8	330.7	237.8
7.5°	403.3	401.8	404.1	404.9	407.6	406.5	406.9	408.0	403.7	348.8	217.8
10°	392.7	392.3	393.5	393.5	396.7	397.1	398.6	401.0	401.4	355.1	188.3
12.5°	382.5	381.4	381.4	381.0	382.5	382.1	386.1	391.6	399.0	351.1	147.9
15°	392.7	391.6	390.0	385.7	382.5	379.0	379.4	382.9	395.1	340.9	110.6
17.5°	475.1	468.8	461.0	447.3	432.8	407.6	392.7	383.3	390.4	325.3	73.8
20°	602.2	599.5	586.9	564.6	541.0	504.2	458.3	421.4	393.5	305.6	44.3
21°	650.5	648.9	635.6	614.8	588.1	543.4	496.3	452.0	399.8	297.4	34.9
22°	699.9	694.1	683.5	660.3	632.5	587.7	535.2	486.1	412.4	286.8	26.7
23°	731.7	728.2	716.8	698.4	671.7	628.1	574.4	521.0	424.5	275.0	20.0
24°	748.2	747.0	738.0	725.0	702.3	658.0	607.0	552.0	434.7	261.3	14.5
25°	757.2	753.3	747.8	738.4	721.1	682.7	637.2	579.1	442.2	247.6	10.2
26°	762.7	760.4	751.7	743.5	727.0	695.6	656.8	595.6	444.1	230.7	7.1
27°	769.0	763.5	755.3	745.5	727.0	699.5	664.2	602.6	441.8	213.4	4.7
28°	775.7	771.7	760.4	747.8	725.8	699.5	661.5	593.2	434.7	197.0	2.7
29°	788.6	783.5	769.4	750.9	726.2	698.8	650.9	573.6	425.3	178.5	1.6
30°	812.1	801.6	784.3	758.4	729.0	697.2	633.2	544.2	417.8	157.7	0.4
31°	830.6	824.7	804.7	772.1	736.8	692.9	612.4	515.1	412.7	139.7	0.0
32°	835.7	831.4	816.9	786.3	750.2	689.3	588.9	486.9	408.8	119.7	0.0
33°	829.8	827.1	811.8	783.9	753.7	684.6	561.8	459.0	404.5	101.6	0.0
34°	818.8	815.3	801.9	773.7	744.7	664.2	535.9	437.9	398.2	84.7	0.0
35°	803.9	801.2	787.4	759.6	728.2	632.5	510.0	423.7	389.2	67.9	0.0
36°	787.8	787.0	769.4	741.9	707.0	601.9	478.7	413.1	380.2	53.8	0.0
37°	777.2	773.3	754.1	727.0	681.9	566.2	453.5	409.6	367.6	41.6	0.0
38°	758.0	758.8	736.8	712.1	656.4	535.2	433.1	406.9	353.5	30.2	0.0
39°	735.2	735.6	712.9	691.7	626.2	502.6	416.3	404.1	335.8	19.2	0.0
40°	717.2	716.8	690.9	668.2	593.6	472.0	407.3	400.2	316.2	11.0	0.0
42.5°	583.0	585.4	588.5	597.9	517.1	418.2	398.6	378.2	260.5	0.0	0.0
45°	380.2	389.2	391.6	419.8	419.4	396.3	378.2	339.0	192.6	0.0	0.0
47.5°	361.7	364.5	369.6	380.6	386.5	375.1	338.2	283.3	105.1	0.0	0.0
50°	368.8	368.4	369.6	369.6	359.0	329.6	277.4	209.1	20.0	0.0	0.0
52.5°	264.8	274.6	285.2	289.9	276.2	245.2	202.4	122.8	0.0	0.0	0.0
55°	93.8	90.6	88.3	96.5	94.6	106.3	87.9	28.6	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.4	1.6	3.5	4.7	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	0.4	0.4
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.8



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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	0.4	0.4	0.4	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.8
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°	248.4	248.4	248.4	248.4
2.5°	198.9	152.6	123.6	125.5
5°	139.7	70.6	43.6	35.3
7.5°	83.6	21.6	4.3	3.5
10°	39.2	3.5	3.9	4.7
12.5°	11.8	3.1	4.3	3.9
15°	3.1	3.5	2.0	1.2
17.5°	1.2	1.6	0.0	0.0
20°	0.8	0.0	0.0	0.0
21°	0.8	0.0	0.0	0.0
22°	0.4	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°	0.4	0.0	0.0	0.0
67.5°	0.4	0.0	0.0	0.0
70°	0.4	0.0	0.0	0.0
72.5°	0.4	0.0	0.0	0.0
75°	0.4	0.0	0.0	0.0
77.5°	0.4	0.0	0.0	0.0
80°	0.4	0.4	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	0.4	0.4	0.0	0.0
85°	0.4	0.4	0.0	0.0
87.5°	0.4	0.4	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)