

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: P1309576

Luminaire Tested: LDSQA3D20R409030D010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309576
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: LDSQA3D20R409030D010 3LSQCA30R 1MMS
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MMS TRII
Light Source: -
Ballast/Driver: -

Summary

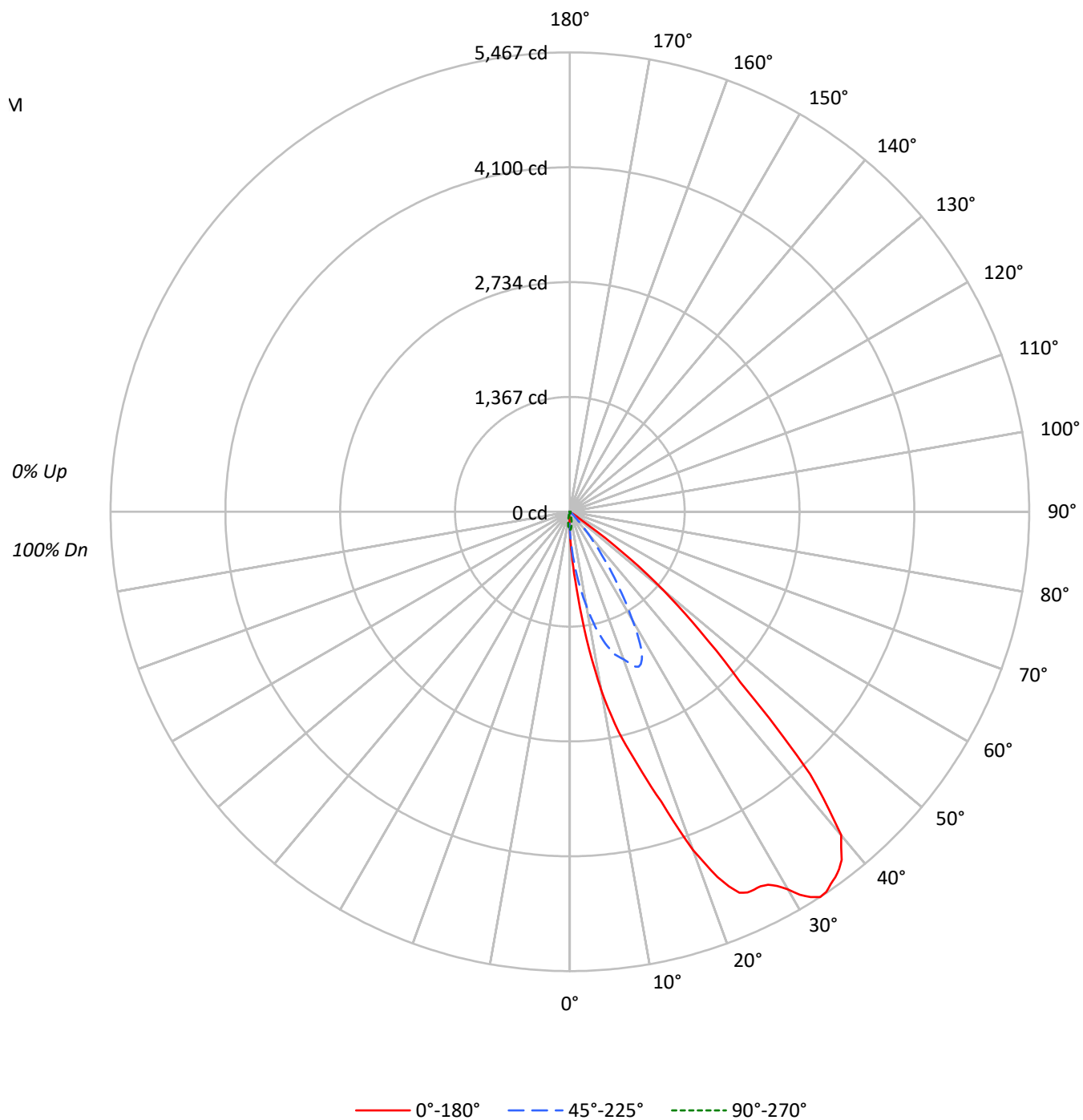
Lumens per Lamp: N/A
Luminaire Lumens: 1835.0 lumens
Efficiency: N/A
Efficacy: 63.7 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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°	36959	36959	36959	36959	36959
5°	156889	106927	32432	5843	2922
10°	377110	198890	20094	595	0
15°	555024	288950	8433	0	0
20°	784529	342560	3097	0	0
25°	950228	380224	0	0	0
30°	1031734	297423	0	0	0
35°	1137678	174104	0	0	0
40°	1129162	70661	0	0	0
45°	699308	20581	0	0	0
50°	389384	455	0	0	0
55°	38043	0	0	0	0
60°	0	0	586	0	0
65°	0	0	693	0	0
70°	0	856	1712	0	0
75°	0	1131	2262	0	0
80°	0	1686	3372	0	0
85°	0	3359	6719	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 702596 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.2	2.2
10°-20°	236.5	12.9
20°-30°	539.9	29.4
30°-40°	637.5	34.7
40°-50°	340.6	18.6
50°-60°	37.0	2.0
60°-70°	0.7	0.0
70°-80°	1.3	0.1
80°-90°	1.2	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°	816.6	44.5
0°-40°	1454.2	79.2
0°-60°	1831.8	99.8
0°-90°	1835.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1835.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	215	215	215	215	215	
5°	908	618	188	34	17	128
15°	3113	1621	47	0	0	925
25°	5000	2001	0	0	0	2271
35°	5411	828	0	0	0	3342
45°	2871	84	0	0	0	2367
55°	127	0	0	0	0	355
65°	0	0	2	0	0	0
75°	0	2	3	0	0	0
85°	0	2	3	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°	214.6	214.6	214.6	214.6	214.6	214.6	214.6	214.6	214.6	214.6	214.6
2.5°	500.2	490.1	496.8	483.3	483.3	452.9	454.6	429.2	392.1	299.1	212.9
5°	907.5	948.1	915.9	873.7	850.0	819.6	779.1	736.8	618.5	373.5	187.6
7.5°	1519.2	1515.9	1461.8	1416.2	1363.8	1282.7	1206.6	1103.5	880.5	427.6	155.5
10°	2156.4	2144.5	2083.7	2044.8	1945.1	1828.5	1673.0	1507.4	1137.3	446.1	114.9
12.5°	2687.0	2671.8	2621.1	2555.2	2445.3	2298.3	2131.0	1913.0	1407.7	425.9	74.4
15°	3112.9	3109.5	3060.5	2970.9	2856.0	2712.3	2523.1	2261.1	1620.6	373.5	47.3
17.5°	3618.1	3638.4	3550.5	3454.2	3288.6	3087.5	2856.0	2556.9	1777.8	309.3	30.4
20°	4280.6	4251.9	4170.7	4030.5	3871.6	3630.0	3302.1	2874.6	1869.1	240.0	16.9
21°	4483.4	4471.6	4387.1	4256.9	4081.2	3836.1	3498.2	3036.8	1911.3	214.6	13.5
22°	4689.6	4669.3	4603.4	4476.6	4311.0	4033.9	3662.1	3204.1	1965.4	187.6	8.4
23°	4843.3	4834.9	4784.2	4659.1	4488.5	4219.8	3839.5	3359.6	2002.6	162.2	5.1
24°	4961.6	4951.5	4900.8	4806.2	4659.1	4378.6	4018.7	3526.9	2017.8	140.3	1.7
25°	5000.5	5005.6	4975.2	4900.8	4777.4	4496.9	4152.2	3658.7	2000.9	120.0	0.0
26°	5002.2	5017.4	4995.4	4953.2	4851.8	4591.5	4277.2	3736.4	1956.9	101.4	0.0
27°	5002.2	5017.4	4995.4	4963.3	4863.6	4645.6	4344.8	3744.9	1889.3	86.2	0.0
28°	5025.9	5034.3	5005.6	4966.7	4858.6	4662.5	4363.4	3694.2	1781.2	74.4	0.0
29°	5091.8	5083.3	5036.0	4983.6	4853.5	4662.5	4307.6	3597.9	1646.0	62.5	0.0
30°	5188.1	5188.1	5113.7	5030.9	4877.1	4660.8	4218.1	3423.8	1495.6	50.7	0.0
31°	5318.2	5306.4	5232.0	5108.7	4927.8	4660.8	4086.3	3231.1	1357.0	43.9	0.0
32°	5406.1	5399.3	5328.4	5183.0	5010.6	4660.8	3944.3	3018.2	1206.6	35.5	0.0
33°	5466.9	5453.4	5372.3	5221.9	5061.3	4637.2	3785.4	2790.1	1071.4	28.7	0.0
34°	5458.5	5455.1	5370.6	5215.1	5051.2	4539.2	3601.2	2536.6	946.4	23.7	0.0
35°	5411.2	5411.2	5308.1	5147.5	4978.5	4395.5	3418.7	2320.3	828.1	16.9	0.0
36°	5375.7	5362.2	5245.5	5066.4	4856.9	4169.1	3148.3	2102.3	701.3	13.5	0.0
37°	5323.3	5297.9	5167.8	4975.2	4684.5	3924.0	2864.4	1907.9	593.2	8.4	0.0
38°	5255.7	5216.8	5058.0	4868.7	4495.2	3641.8	2575.5	1689.9	493.5	5.1	0.0
39°	5132.3	5100.2	4936.3	4731.8	4268.8	3344.4	2294.9	1485.4	398.8	1.7	0.0
40°	5022.5	4966.7	4780.8	4545.9	4003.4	3008.1	2016.1	1284.3	314.3	0.0	0.0
42.5°	4235.0	4175.8	4133.6	3900.4	3188.9	2159.7	1407.7	823.0	163.9	0.0	0.0
45°	2871.2	2884.7	2752.9	2595.7	2104.0	1407.7	880.5	458.0	84.5	0.0	0.0
47.5°	2093.8	2058.3	1879.2	1581.8	1233.6	823.0	459.7	221.4	33.8	0.0	0.0
50°	1453.3	1385.7	1223.5	1000.4	670.9	392.1	202.8	103.1	1.7	0.0	0.0
52.5°	789.2	741.9	628.7	456.3	278.8	150.4	81.1	42.2	0.0	0.0	0.0
55°	126.7	87.9	91.3	77.7	60.8	43.9	25.3	5.1	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	1.7	1.7
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.4	3.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.4	3.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	3.4	3.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.4	3.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	3.4	3.4



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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	1.7	1.7	3.4	3.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.4	3.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	3.4	3.4
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°	214.6	214.6	214.6	214.6
2.5°	143.6	98.0	74.4	64.2
5°	82.8	33.8	18.6	16.9
7.5°	40.6	11.8	6.8	6.8
10°	16.9	3.4	0.0	0.0
12.5°	5.1	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°	1.7	0.0	0.0	0.0
67.5°	1.7	0.0	0.0	0.0
70°	1.7	0.0	0.0	0.0
72.5°	1.7	0.0	0.0	0.0
75°	1.7	0.0	0.0	0.0
77.5°	1.7	0.0	0.0	0.0
80°	1.7	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	1.7	0.0	0.0	0.0
85°	1.7	0.0	0.0	0.0
87.5°	1.7	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)