

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: P1316856

Luminaire Tested: LDSQA3D20R209740D010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R209740D010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

Summary

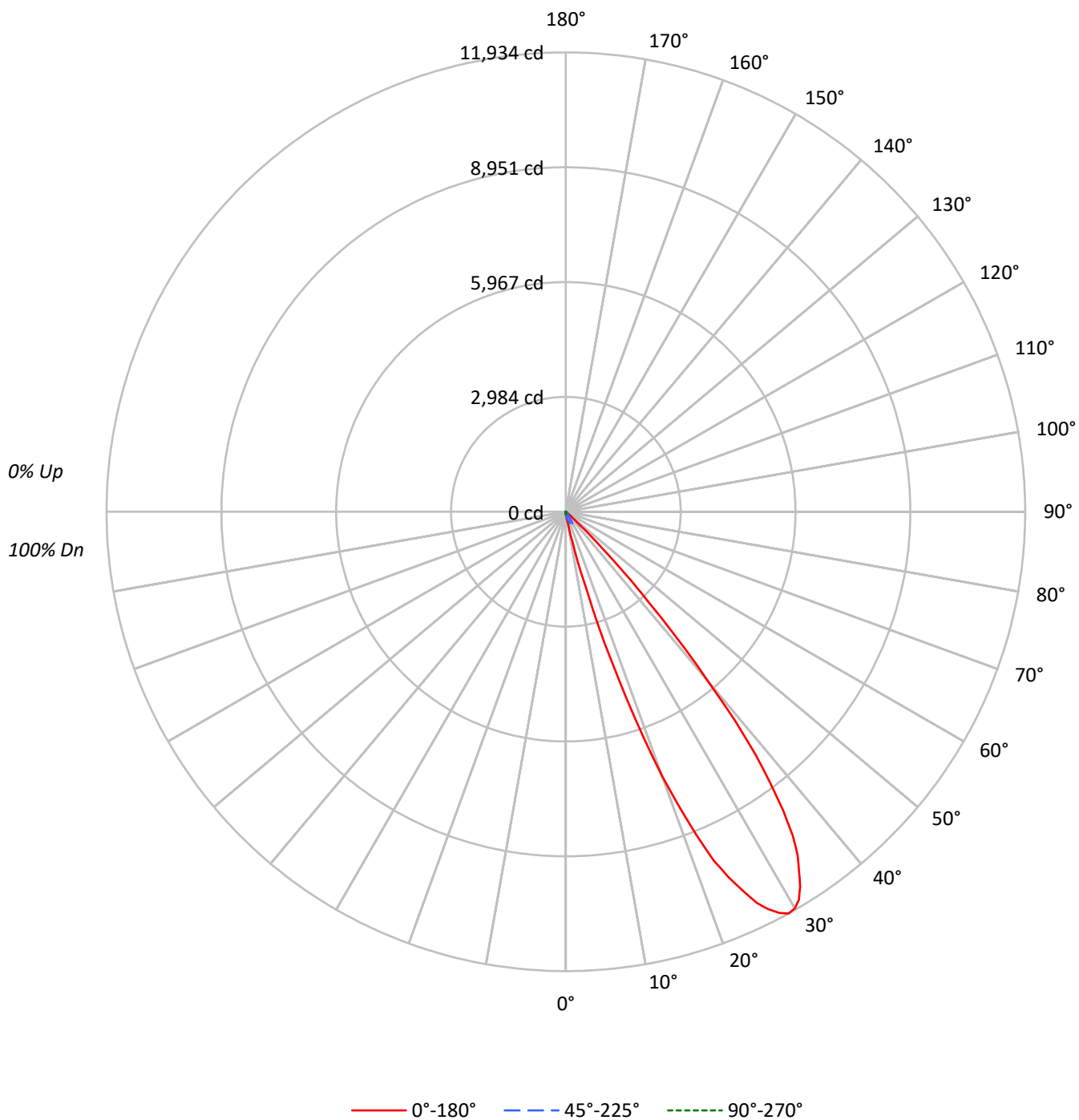
Lumens per Lamp: N/A
Luminaire Lumens: 1647.0 lumens
Efficiency: N/A
Efficacy: 57.2 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61		
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55		
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	50		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	45		
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10161	10161	10161	10161	10161
5°	22094	15577	9353	4253	3112
10°	55000	27491	6593	857	0
15°	386960	37674	3798	0	0
20°	1337416	63340	1503	0	0
25°	2061504	80932	627	0	0
30°	2366182	62543	0	0	0
35°	2160982	23758	0	0	0
40°	1295529	11039	0	0	0
45°	318357	5188	0	0	0
50°	35099	1313	0	0	0
55°	4924	0	480	0	0
60°	0	0	1137	0	0
65°	0	0	1345	0	0
70°	0	806	2467	0	0
75°	0	1065	3261	0	0
80°	0	1587	4860	0	0
85°	0	3162	9683	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 339498 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.7	0.4
10°-20°	128.6	7.8
20°-30°	650.6	39.5
30°-40°	703.9	42.7
40°-50°	148.7	9.0
50°-60°	4.5	0.3
60°-70°	1.1	0.1
70°-80°	1.5	0.1
80°-90°	1.4	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°	786.0	47.7
0°-40°	1489.9	90.5
0°-60°	1643.0	99.8
0°-90°	1647.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1647.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	59	59	59	59	59	
5°	128	90	54	25	18	18
15°	2170	211	21	0	0	905
25°	10848	426	3	0	0	4904
35°	10278	113	0	0	0	6061
45°	1307	21	0	0	0	1438
55°	16	0	2	0	0	29
65°	0	0	3	0	0	0
75°	0	2	5	0	0	0
85°	0	2	5	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
2.5°	80.3	78.6	80.3	78.6	80.3	80.3	80.3	78.6	78.6	78.6	78.6
5°	127.8	127.8	126.1	127.8	127.8	127.8	127.8	126.1	126.1	124.5	124.5
7.5°	201.5	201.5	199.8	199.8	201.5	203.1	196.6	199.8	199.8	199.8	198.2
10°	314.5	321.0	314.5	322.7	316.1	311.2	319.4	311.2	311.2	309.6	304.7
12.5°	792.8	774.8	763.3	735.5	763.3	742.0	746.9	742.0	725.6	704.3	691.2
15°	2170.3	2170.3	2106.5	2191.6	2129.4	2152.3	2034.4	2036.0	1975.4	1909.9	1873.9
17.5°	4537.3	4578.2	4535.6	4509.4	4453.7	4373.5	4340.7	4257.2	4147.4	4019.7	4004.9
20°	7297.3	7125.3	7205.6	7131.8	7086.0	6987.7	6878.0	6809.2	6712.5	6550.4	6311.2
21°	8165.4	8158.9	8157.2	8155.6	8088.4	7927.9	7828.0	7690.4	7554.5	7387.4	7187.5
22°	9040.1	9071.2	9084.3	8989.3	8851.7	8779.7	8710.9	8522.5	8307.9	8221.1	7983.6
23°	9842.7	9813.3	9728.1	9683.9	9577.4	9556.1	9351.3	9231.8	9022.1	8927.1	8645.4
24°	10389.8	10375.1	10335.8	10270.3	10185.1	10054.0	9931.2	9742.8	9570.8	9415.2	9153.1
25°	10848.5	10861.6	10789.5	10745.3	10653.5	10506.1	10355.4	10149.0	9988.5	9806.7	9503.7
26°	11302.2	11210.5	11153.1	11087.6	10987.7	10819.0	10673.2	10488.1	10293.2	10090.1	9793.6
27°	11582.3	11500.4	11413.6	11349.7	11235.0	11074.5	10918.9	10714.2	10496.3	10291.6	9986.9
28°	11803.4	11713.3	11628.2	11551.2	11420.1	11248.1	11061.4	10853.4	10627.3	10416.0	10104.8
29°	11934.5	11828.0	11736.3	11649.5	11529.9	11343.1	11154.8	10932.0	10714.2	10493.0	10175.3
30°	11898.4	11806.7	11718.2	11629.8	11508.6	11333.3	11146.6	10933.6	10714.2	10496.3	10173.6
31°	11757.6	11644.5	11580.7	11492.2	11387.4	11208.8	11048.3	10815.7	10617.5	10381.6	10059.0
32°	11487.3	11415.2	11330.0	11261.2	11159.7	10969.7	10812.4	10622.4	10388.2	10194.9	9855.8
33°	11120.4	11053.2	11010.6	10930.4	10832.1	10701.1	10512.7	10339.1	10075.3	9877.1	9538.1
34°	10769.8	10684.7	10578.2	10555.3	10470.1	10301.4	10131.0	9954.1	9718.3	9466.0	9123.7
35°	10278.4	10190.0	10091.7	10099.9	9998.3	9801.8	9628.2	9430.0	9205.6	8909.1	8584.8
36°	9621.6	9562.6	9547.9	9508.6	9392.3	9158.1	8992.6	8743.6	8555.3	8193.3	7914.8
37°	8820.6	8841.9	8735.5	8684.7	8548.7	8384.9	8291.6	7972.1	7752.7	7480.7	7104.0
38°	8011.5	7980.3	7854.2	7885.3	7698.6	7528.2	7264.5	7074.5	6828.8	6576.6	6275.2
39°	7000.8	6923.8	6773.1	6779.7	6638.8	6447.2	6191.6	5967.2	5819.8	5577.4	5289.1
40°	5762.5	5729.7	5677.3	5590.5	5405.4	5321.9	5094.2	4851.8	4727.3	4391.5	4250.6
42.5°	3197.4	3153.1	3064.7	3033.6	2935.3	2837.0	2704.3	2542.2	2463.6	2363.6	2140.9
45°	1307.1	1393.9	1372.6	1348.1	1272.7	1277.6	1182.6	1194.1	1107.3	1048.3	1007.4
47.5°	288.3	312.9	314.5	303.0	314.5	304.7	299.8	291.6	293.2	298.1	286.6
50°	131.0	129.4	132.7	131.0	129.4	127.8	126.1	121.2	124.5	121.2	117.9
52.5°	50.8	52.4	52.4	49.1	50.8	50.8	50.8	49.1	49.1	49.1	49.1
55°	16.4	16.4	16.4	14.7	14.7	16.4	16.4	16.4	16.4	16.4	14.7
57.5°	1.6	3.3	1.6	3.3	1.6	1.6	1.6	1.6	1.6	3.3	3.3
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
2.5°	75.3	68.8	63.9	59.0	49.1	40.9	37.7	37.7
5°	116.3	90.1	67.2	54.1	37.7	24.6	19.7	18.0
7.5°	175.3	121.2	70.4	45.9	24.6	13.1	8.2	6.6
10°	253.9	157.2	73.7	37.7	14.7	4.9	0.0	0.0
12.5°	443.9	188.4	73.7	29.5	6.6	0.0	0.0	0.0
15°	1017.2	211.3	70.4	21.3	1.6	0.0	0.0	0.0
17.5°	2113.0	265.4	62.2	14.7	0.0	0.0	0.0	0.0
20°	3374.3	345.6	49.1	8.2	0.0	0.0	0.0	0.0
21°	3893.5	373.5	44.2	6.6	0.0	0.0	0.0	0.0
22°	4267.0	399.7	39.3	4.9	0.0	0.0	0.0	0.0
23°	4678.1	416.1	34.4	3.3	0.0	0.0	0.0	0.0
24°	4981.2	425.9	29.5	3.3	0.0	0.0	0.0	0.0
25°	5169.5	425.9	26.2	3.3	0.0	0.0	0.0	0.0
26°	5280.9	416.1	22.9	1.6	0.0	0.0	0.0	0.0
27°	5307.1	399.7	19.7	1.6	0.0	0.0	0.0	0.0
28°	5274.4	378.4	16.4	0.0	0.0	0.0	0.0	0.0
29°	5171.2	347.3	14.7	0.0	0.0	0.0	0.0	0.0
30°	5059.8	314.5	11.5	0.0	0.0	0.0	0.0	0.0
31°	4869.8	270.3	9.8	0.0	0.0	0.0	0.0	0.0
32°	4650.3	224.4	8.2	0.0	0.0	0.0	0.0	0.0
33°	4357.1	176.9	6.6	0.0	0.0	0.0	0.0	0.0
34°	3924.6	139.2	6.6	0.0	0.0	0.0	0.0	0.0
35°	3536.4	113.0	4.9	0.0	0.0	0.0	0.0	0.0
36°	3028.7	90.1	4.9	0.0	0.0	0.0	0.0	0.0
37°	2594.6	75.3	4.9	0.0	0.0	0.0	0.0	0.0
38°	2172.0	63.9	3.3	0.0	0.0	0.0	0.0	0.0
39°	1762.5	55.7	3.3	0.0	0.0	0.0	0.0	0.0
40°	1405.4	49.1	3.3	0.0	0.0	0.0	0.0	0.0
42.5°	758.4	32.8	0.0	0.0	0.0	0.0	0.0	0.0
45°	419.3	21.3	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	185.1	11.5	0.0	0.0	0.0	0.0	0.0	0.0
50°	62.2	4.9	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	31.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	14.7	0.0	0.0	1.6	0.0	0.0	0.0	0.0
57.5°	3.3	0.0	0.0	1.6	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.6	3.3	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.6	3.3	1.6	0.0	0.0	0.0
65°	0.0	0.0	3.3	3.3	1.6	0.0	0.0	0.0
67.5°	0.0	1.6	3.3	4.9	1.6	0.0	0.0	0.0
70°	0.0	1.6	3.3	4.9	1.6	0.0	0.0	0.0
72.5°	0.0	1.6	3.3	4.9	1.6	0.0	0.0	0.0
75°	0.0	1.6	3.3	4.9	1.6	0.0	0.0	0.0
77.5°	0.0	1.6	3.3	4.9	1.6	0.0	0.0	0.0
80°	0.0	1.6	3.3	4.9	1.6	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	1.6	3.3	4.9	1.6	0.0	0.0	0.0
85°	0.0	1.6	3.3	4.9	1.6	0.0	0.0	0.0
87.5°	0.0	1.6	3.3	4.9	1.6	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)