

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: P1312823

Luminaire Tested: LDSQA3D20R209050D010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312823
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: LDSQA3D20R209050D010 3LSQCA30R 1MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MMS TRII
Light Source: -
Ballast/Driver: -

Summary

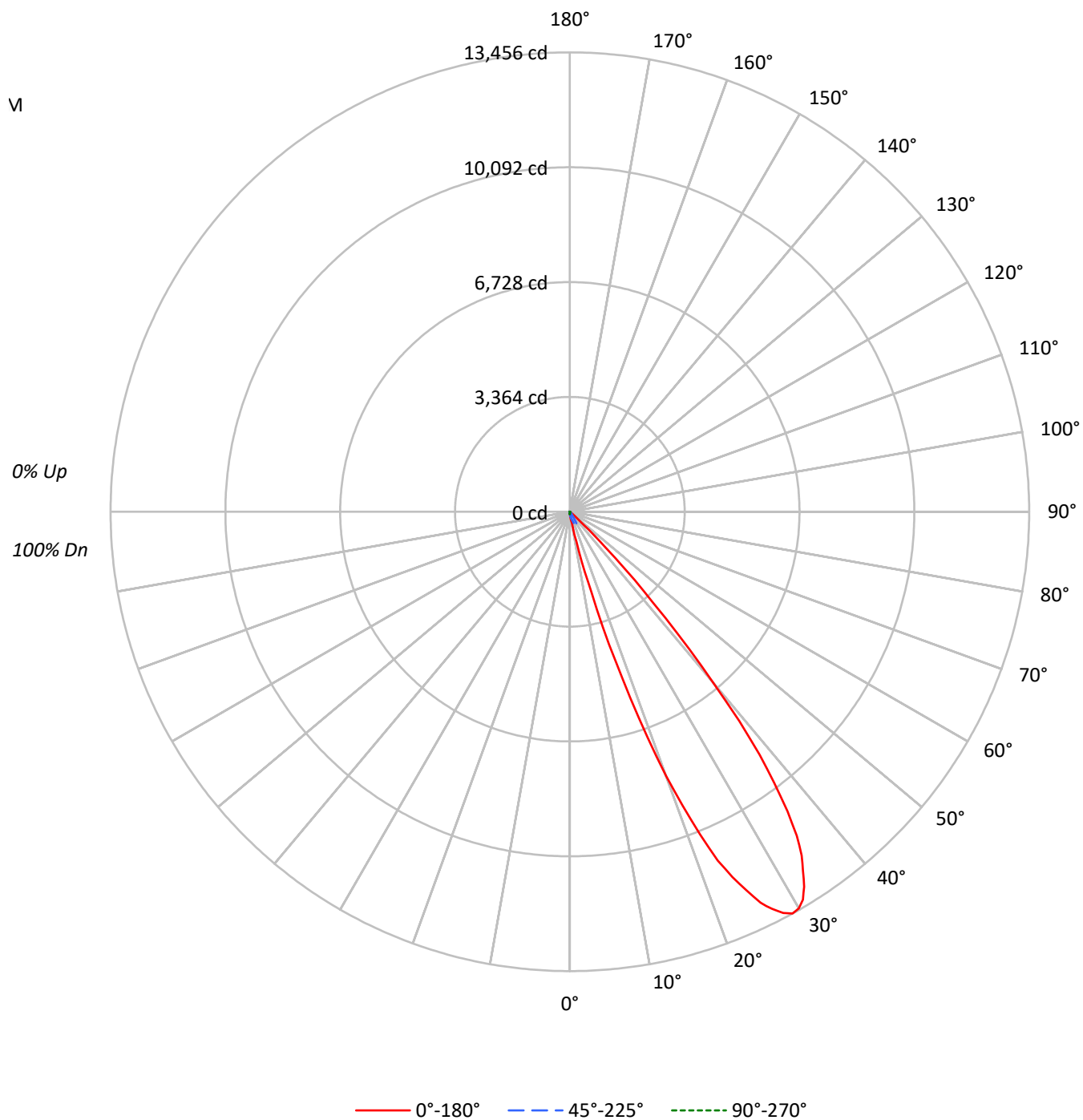
Lumens per Lamp: N/A
Luminaire Lumens: 1856.9 lumens
Efficiency: N/A
Efficacy: 64.5 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	11453	11453	11453	11453	11453
5°	24912	17565	10528	4789	3509
10°	62012	31006	7432	962	0
15°	436313	42471	4279	0	0
20°	1507936	71422	1686	0	0
25°	2324349	91251	703	0	0
30°	2667881	70518	0	0	0
35°	2436530	26785	0	0	0
40°	1460705	12455	0	0	0
45°	358958	5845	0	0	0
50°	39573	1474	0	0	0
55°	5555	0	540	0	0
60°	0	0	1274	0	0
65°	0	0	1508	0	0
70°	0	906	2769	0	0
75°	0	1198	3660	0	0
80°	0	1785	5455	0	0
85°	0	3557	10868	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 382803 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.5	0.4
10°-20°	145.0	7.8
20°-30°	733.6	39.5
30°-40°	793.7	42.7
40°-50°	167.6	9.0
50°-60°	5.0	0.3
60°-70°	1.2	0.1
70°-80°	1.7	0.1
80°-90°	1.5	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°	886.2	47.7
0°-40°	1679.9	90.5
0°-60°	1852.5	99.8
0°-90°	1856.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1856.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	66	66	66	66	66	
5°	144	102	61	28	20	20
15°	2447	238	24	0	0	1020
25°	12232	480	4	0	0	5529
35°	11589	127	0	0	0	6834
45°	1474	24	0	0	0	1621
55°	18	0	2	0	0	33
65°	0	0	4	0	0	0
75°	0	2	6	0	0	0
85°	0	2	6	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°	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
2.5°	90.5	88.6	90.5	88.6	90.5	90.5	90.5	88.6	88.6	88.6	88.6
5°	144.1	144.1	142.2	144.1	144.1	144.1	144.1	142.2	142.2	140.4	140.4
7.5°	227.2	227.2	225.3	225.3	227.2	229.0	221.6	225.3	225.3	225.3	223.5
10°	354.6	362.0	354.6	363.8	356.4	350.9	360.1	350.9	350.9	349.1	343.5
12.5°	893.9	873.6	860.6	829.2	860.6	836.6	842.2	836.6	818.2	794.1	779.4
15°	2447.1	2447.1	2375.1	2471.1	2400.9	2426.8	2293.8	2295.6	2227.3	2153.4	2112.8
17.5°	5115.8	5162.0	5113.9	5084.4	5021.6	4931.1	4894.2	4800.0	4676.2	4532.2	4515.6
20°	8227.7	8033.8	8124.3	8041.2	7989.5	7878.7	7754.9	7677.4	7568.4	7385.6	7115.9
21°	9206.6	9199.2	9197.3	9195.5	9119.8	8938.8	8826.1	8671.0	8517.7	8329.3	8104.0
22°	10192.8	10227.9	10242.6	10135.5	9980.4	9899.1	9821.6	9609.2	9367.2	9269.3	9001.6
23°	11097.7	11064.5	10968.5	10918.6	10798.5	10774.5	10543.7	10408.9	10172.5	10065.3	9747.7
24°	11714.6	11698.0	11653.6	11579.8	11483.7	11336.0	11197.5	10985.1	10791.2	10615.7	10320.2
25°	12231.7	12246.5	12165.2	12115.3	12011.9	11845.7	11675.8	11443.1	11262.1	11057.1	10715.4
26°	12743.3	12639.9	12575.2	12501.3	12388.7	12198.5	12034.1	11825.4	11605.6	11376.6	11042.3
27°	13059.1	12966.7	12868.9	12796.8	12667.6	12486.6	12311.1	12080.3	11834.6	11603.8	11260.3
28°	13308.4	13206.8	13110.8	13024.0	12876.3	12682.3	12471.8	12237.2	11982.4	11744.1	11393.2
29°	13456.2	13336.1	13232.7	13134.8	13000.0	12789.4	12577.1	12325.9	12080.3	11830.9	11472.6
30°	13415.5	13312.1	13212.4	13112.6	12976.0	12778.4	12567.8	12327.7	12080.3	11834.6	11470.8
31°	13256.7	13129.3	13057.2	12957.5	12839.3	12638.0	12457.0	12194.8	11971.3	11705.3	11341.5
32°	12952.0	12870.7	12774.7	12697.1	12582.6	12368.4	12191.1	11976.8	11712.7	11494.8	11112.5
33°	12538.3	12462.6	12414.5	12324.0	12213.2	12065.5	11853.1	11657.3	11360.0	11136.5	10754.2
34°	12143.1	12047.0	11927.0	11901.1	11805.1	11614.9	11422.8	11223.3	10957.4	10673.0	10287.0
35°	11589.0	11489.3	11378.5	11387.7	11273.2	11051.6	10855.8	10632.3	10379.3	10045.0	9679.4
36°	10848.4	10781.9	10765.3	10721.0	10589.8	10325.7	10139.2	9858.5	9646.1	9238.0	8924.0
37°	9945.3	9969.3	9849.3	9792.0	9638.7	9454.0	9348.8	8988.6	8741.1	8434.6	8009.8
38°	9033.0	8997.9	8855.7	8890.7	8680.2	8488.1	8190.8	7976.6	7699.5	7415.1	7075.3
39°	7893.4	7806.6	7636.7	7644.1	7485.3	7269.2	6981.1	6728.1	6561.9	6288.5	5963.5
40°	6497.2	6460.3	6401.2	6303.3	6094.6	6000.4	5743.7	5470.4	5330.0	4951.4	4792.6
42.5°	3605.1	3555.2	3455.5	3420.4	3309.6	3198.7	3049.2	2866.3	2777.7	2665.0	2413.8
45°	1473.8	1571.7	1547.7	1520.0	1435.0	1440.5	1333.4	1346.4	1248.5	1182.0	1135.8
47.5°	325.0	352.7	354.6	341.7	354.6	343.5	338.0	328.7	330.6	336.1	323.2
50°	147.7	145.9	149.6	147.7	145.9	144.1	142.2	136.7	140.4	136.7	133.0
52.5°	57.3	59.1	59.1	55.4	57.3	57.3	57.3	55.4	55.4	55.4	55.4
55°	18.5	18.5	18.5	16.6	16.6	18.5	18.5	18.5	18.5	18.5	16.6
57.5°	1.8	3.7	1.8	3.7	1.8	1.8	1.8	1.8	1.8	3.7	3.7
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°	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
2.5°	85.0	77.6	72.0	66.5	55.4	46.2	42.5	42.5
5°	131.1	101.6	75.7	60.9	42.5	27.7	22.2	20.3
7.5°	197.6	136.7	79.4	51.7	27.7	14.8	9.2	7.4
10°	286.3	177.3	83.1	42.5	16.6	5.5	0.0	0.0
12.5°	500.5	212.4	83.1	33.2	7.4	0.0	0.0	0.0
15°	1146.9	238.2	79.4	24.0	1.8	0.0	0.0	0.0
17.5°	2382.4	299.2	70.2	16.6	0.0	0.0	0.0	0.0
20°	3804.5	389.7	55.4	9.2	0.0	0.0	0.0	0.0
21°	4390.0	421.1	49.9	7.4	0.0	0.0	0.0	0.0
22°	4811.0	450.6	44.3	5.5	0.0	0.0	0.0	0.0
23°	5274.6	469.1	38.8	3.7	0.0	0.0	0.0	0.0
24°	5616.3	480.2	33.2	3.7	0.0	0.0	0.0	0.0
25°	5828.7	480.2	29.5	3.7	0.0	0.0	0.0	0.0
26°	5954.3	469.1	25.9	1.8	0.0	0.0	0.0	0.0
27°	5983.8	450.6	22.2	1.8	0.0	0.0	0.0	0.0
28°	5946.9	426.6	18.5	0.0	0.0	0.0	0.0	0.0
29°	5830.5	391.5	16.6	0.0	0.0	0.0	0.0	0.0
30°	5704.9	354.6	12.9	0.0	0.0	0.0	0.0	0.0
31°	5490.7	304.7	11.1	0.0	0.0	0.0	0.0	0.0
32°	5243.2	253.0	9.2	0.0	0.0	0.0	0.0	0.0
33°	4912.6	199.5	7.4	0.0	0.0	0.0	0.0	0.0
34°	4425.1	157.0	7.4	0.0	0.0	0.0	0.0	0.0
35°	3987.4	127.4	5.5	0.0	0.0	0.0	0.0	0.0
36°	3414.8	101.6	5.5	0.0	0.0	0.0	0.0	0.0
37°	2925.4	85.0	5.5	0.0	0.0	0.0	0.0	0.0
38°	2448.9	72.0	3.7	0.0	0.0	0.0	0.0	0.0
39°	1987.2	62.8	3.7	0.0	0.0	0.0	0.0	0.0
40°	1584.6	55.4	3.7	0.0	0.0	0.0	0.0	0.0
42.5°	855.1	36.9	0.0	0.0	0.0	0.0	0.0	0.0
45°	472.8	24.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	208.7	12.9	0.0	0.0	0.0	0.0	0.0	0.0
50°	70.2	5.5	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	35.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	16.6	0.0	0.0	1.8	0.0	0.0	0.0	0.0
57.5°	3.7	0.0	0.0	1.8	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.8	3.7	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.8	3.7	1.8	0.0	0.0	0.0
65°	0.0	0.0	3.7	3.7	1.8	0.0	0.0	0.0
67.5°	0.0	1.8	3.7	5.5	1.8	0.0	0.0	0.0
70°	0.0	1.8	3.7	5.5	1.8	0.0	0.0	0.0
72.5°	0.0	1.8	3.7	5.5	1.8	0.0	0.0	0.0
75°	0.0	1.8	3.7	5.5	1.8	0.0	0.0	0.0
77.5°	0.0	1.8	3.7	5.5	1.8	0.0	0.0	0.0
80°	0.0	1.8	3.7	5.5	1.8	0.0	0.0	0.0



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	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	1.8	3.7	5.5	1.8	0.0	0.0	0.0
85°	0.0	1.8	3.7	5.5	1.8	0.0	0.0	0.0
87.5°	0.0	1.8	3.7	5.5	1.8	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)