

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: P1317734

Luminaire Tested: LDSQA3D20R209827D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317734
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R209827D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

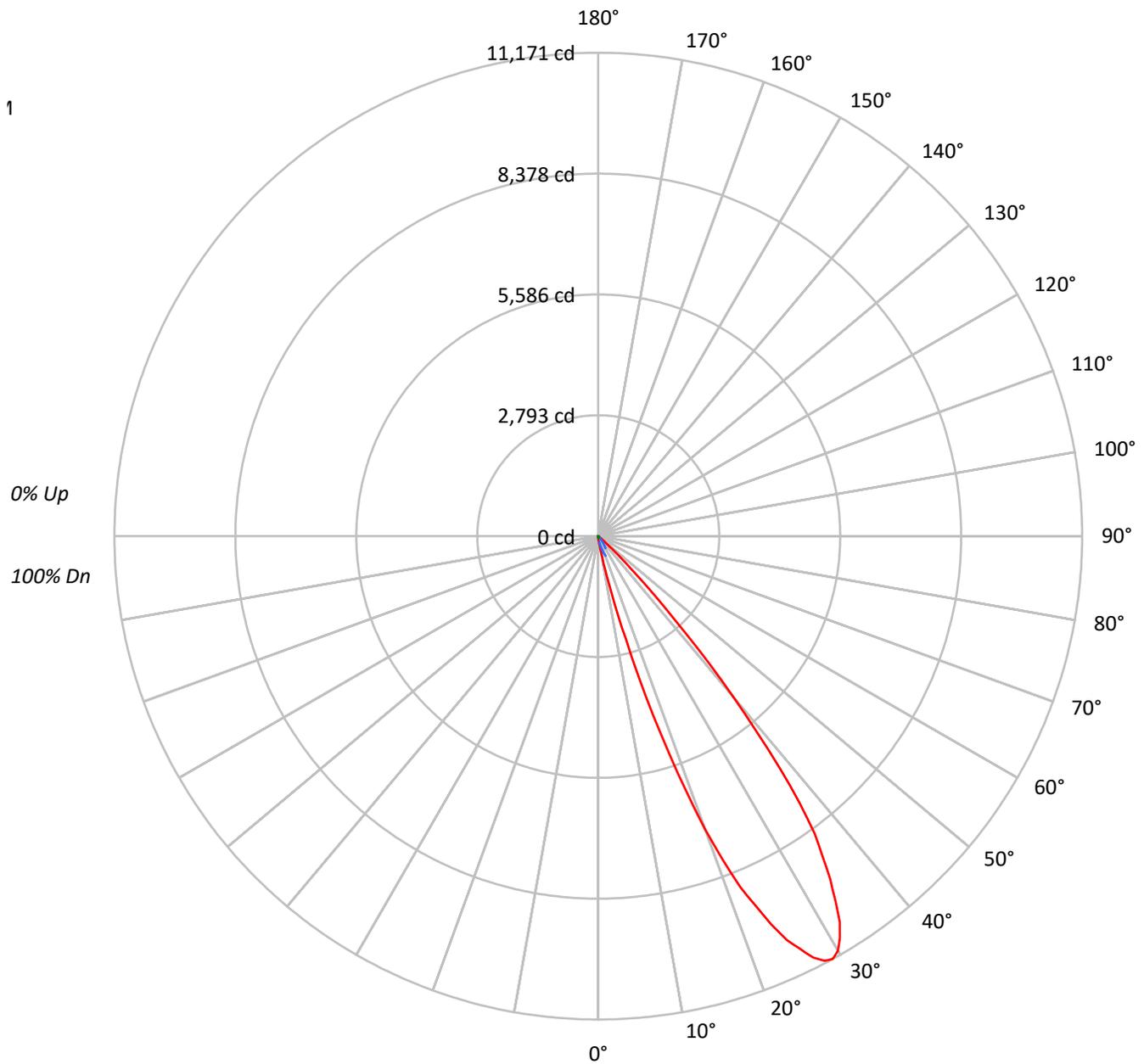
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1567.0 lumens
Efficiency: N/A
Efficacy: 57.2 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.54 / 1.19
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
Input Voltage (V): NR
Input Current (A_{in}): 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



1
0% Up
100% Dn

— 0°-180° - - 45°-225° - - - 90°-270°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	96	95	93	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	83	80	77	75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	71	67	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	60	55	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	56	51	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	51	46	43	41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9300	9300	9300	9300	9300
5°	21385	15974	8851	5411	4668
10°	67381	27841	7205	2990	2238
15°	436491	51457	5331	1016	250
20°	1317348	88064	3647	0	0
25°	1956419	88875	2166	0	0
30°	2200090	67575	855	0	0
35°	1898260	40346	589	0	0
40°	1093078	13737	0	0	0
45°	266625	5529	341	0	341
50°	31991	1527	375	375	1152
55°	4264	0	841	841	1711
60°	482	0	1481	1481	2446
65°	571	571	2323	2323	3464
70°	705	705	2870	2870	3575
75°	0	932	3793	2861	3793
80°	0	1389	4265	2777	4265
85°	0	2766	8497	2766	2766

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°
 Vertical Angle: 45°
 Luminance: 268354 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.2	0.5
10°-20°	145.2	9.3
20°-30°	633.0	40.4
30°-40°	637.4	40.7
40°-50°	127.9	8.2
50°-60°	6.4	0.4
60°-70°	4.2	0.3
70°-80°	3.7	0.2
80°-90°	1.9	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°	785.4	50.1
0°-40°	1422.9	90.8
0°-60°	1557.1	99.4
0°-90°	1567.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1567.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	54	54	54	54	54	
5°	124	92	51	31	27	19
15°	2448	289	30	6	1	959
25°	10296	468	11	0	0	4642
35°	9029	192	3	0	0	5372
45°	1095	23	1	0	1	1192
55°	14	0	3	3	6	26
65°	1	1	6	6	8	1
75°	0	1	6	4	6	1
85°	0	1	4	1	1	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
2.5°	81.0	81.0	79.6	79.6	78.2	79.6	76.8	78.2	78.2	76.8	69.7
5°	123.7	126.5	125.1	125.1	123.7	125.1	122.3	119.4	116.6	116.6	92.4
7.5°	203.3	201.9	199.0	200.5	196.2	193.3	190.5	189.1	180.5	176.3	120.8
10°	385.3	393.8	386.7	385.3	359.7	358.3	341.2	317.0	295.7	284.3	159.2
12.5°	1060.5	1106.0	1035.0	1000.8	980.9	904.2	871.5	787.6	706.6	645.4	201.9
15°	2448.1	2560.4	2416.8	2426.7	2307.3	2088.4	1896.5	1731.6	1536.8	1340.6	288.6
17.5°	4796.6	4705.6	4627.4	4495.2	4252.1	3930.8	3517.1	3097.8	2735.2	2355.7	402.3
20°	7187.8	7106.8	6929.1	6640.5	6330.6	5854.3	5362.4	4732.6	4122.8	3551.3	480.5
21°	8010.9	7983.9	7692.5	7514.8	7037.1	6582.2	6015.0	5341.1	4654.5	3977.7	493.3
22°	8745.9	8583.9	8427.5	8164.5	7689.7	7194.9	6563.7	5854.3	5109.4	4357.3	494.7
23°	9254.9	9181.0	9033.1	8736.0	8264.0	7682.5	7017.2	6275.1	5490.4	4626.0	490.5
24°	9817.8	9724.0	9507.9	9161.1	8684.8	8110.5	7351.3	6614.9	5761.9	4852.1	479.1
25°	10295.5	10149.1	9893.2	9519.3	8999.0	8406.2	7642.7	6833.8	5951.0	5004.2	467.7
26°	10605.4	10525.8	10197.4	9790.8	9233.6	8622.2	7843.2	7001.6	6073.2	5073.8	449.2
27°	10928.1	10781.7	10459.0	9991.3	9387.1	8763.0	7956.9	7082.6	6115.9	5076.7	426.5
28°	11113.0	10953.7	10588.4	10096.5	9486.6	8841.2	8022.3	7108.2	6107.4	5032.6	399.5
29°	11171.3	10970.8	10614.0	10113.5	9510.8	8846.9	8012.4	7071.2	6032.0	4924.6	368.2
30°	11063.2	10858.5	10520.1	10032.5	9434.0	8775.8	7920.0	6949.0	5898.4	4769.6	339.8
31°	10827.2	10653.8	10326.8	9837.8	9263.4	8609.5	7711.0	6748.5	5670.9	4562.0	307.1
32°	10515.9	10345.3	10024.0	9581.9	8997.6	8337.9	7425.2	6435.8	5403.7	4252.1	274.4
33°	10048.2	9950.1	9661.5	9239.2	8654.9	7949.8	7041.4	6061.9	5022.7	3908.1	245.9
34°	9574.7	9451.1	9249.2	8787.2	8158.8	7455.1	6541.0	5545.8	4557.8	3522.8	218.9
35°	9028.8	8954.9	8637.9	8268.3	7637.1	6917.7	6009.3	5044.0	4016.1	3093.5	191.9
36°	8500.0	8386.3	8025.2	7634.2	7021.5	6243.8	5346.8	4439.8	3548.4	2691.2	163.5
37°	7732.3	7558.9	7301.5	6889.3	6172.8	5510.3	4691.4	3849.8	2972.7	2256.1	132.2
38°	6829.6	6748.5	6391.7	5976.6	5383.8	4755.4	3945.1	3231.4	2452.3	1883.7	100.9
39°	5764.8	5763.3	5422.1	5122.2	4542.1	3976.3	3245.6	2622.9	2024.4	1516.9	78.2
40°	4862.0	4694.3	4483.9	4107.1	3662.1	3181.6	2541.9	2052.8	1570.9	1222.6	61.1
42.5°	2549.0	2534.8	2411.1	2128.2	1879.4	1596.5	1269.5	1057.7	827.4	673.9	38.4
45°	1094.7	1101.8	1016.5	973.8	877.2	759.2	641.2	534.5	457.8	371.0	22.7
47.5°	277.2	265.8	263.0	273.0	273.0	264.4	237.4	223.2	206.1	189.1	12.8
50°	119.4	116.6	113.7	113.7	106.6	102.4	95.2	86.7	79.6	71.1	5.7
52.5°	44.1	45.5	46.9	45.5	45.5	44.1	44.1	42.6	38.4	34.1	2.8
55°	14.2	14.2	14.2	15.6	15.6	17.1	17.1	17.1	17.1	15.6	0.0
57.5°	2.8	2.8	4.3	4.3	4.3	4.3	4.3	4.3	5.7	5.7	0.0
60°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0
62.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
65°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
67.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
70°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
72.5°	1.4	0.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
75°	0.0	0.0	0.0	1.4	0.0	1.4	1.4	0.0	1.4	1.4	1.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	54.0	54.0	54.0	54.0	54.0	54.0
2.5°	62.6	55.4	46.9	39.8	38.4	37.0
5°	69.7	51.2	38.4	31.3	28.4	27.0
7.5°	75.3	46.9	31.3	22.7	19.9	18.5
10°	78.2	41.2	25.6	17.1	12.8	12.8
12.5°	79.6	35.5	18.5	11.4	7.1	7.1
15°	78.2	29.9	14.2	5.7	1.4	1.4
17.5°	71.1	24.2	8.5	1.4	0.0	0.0
20°	61.1	19.9	5.7	0.0	0.0	0.0
21°	58.3	17.1	4.3	0.0	0.0	0.0
22°	54.0	15.6	2.8	0.0	0.0	0.0
23°	49.8	14.2	2.8	0.0	0.0	0.0
24°	45.5	12.8	1.4	0.0	0.0	0.0
25°	42.6	11.4	1.4	0.0	0.0	0.0
26°	39.8	10.0	1.4	0.0	0.0	0.0
27°	35.5	8.5	0.0	0.0	0.0	0.0
28°	32.7	7.1	0.0	0.0	0.0	0.0
29°	28.4	5.7	0.0	0.0	0.0	0.0
30°	24.2	4.3	0.0	0.0	0.0	0.0
31°	19.9	4.3	0.0	0.0	0.0	0.0
32°	17.1	2.8	0.0	0.0	0.0	0.0
33°	14.2	2.8	0.0	0.0	0.0	0.0
34°	12.8	2.8	0.0	0.0	0.0	0.0
35°	11.4	2.8	0.0	0.0	0.0	0.0
36°	8.5	1.4	0.0	0.0	0.0	0.0
37°	7.1	1.4	0.0	0.0	0.0	0.0
38°	5.7	1.4	0.0	0.0	0.0	0.0
39°	4.3	0.0	0.0	0.0	0.0	0.0
40°	4.3	0.0	0.0	0.0	0.0	0.0
42.5°	1.4	0.0	0.0	0.0	0.0	0.0
45°	0.0	1.4	0.0	0.0	1.4	1.4
47.5°	0.0	1.4	0.0	0.0	1.4	2.8
50°	0.0	1.4	1.4	1.4	2.8	4.3
52.5°	0.0	2.8	1.4	1.4	4.3	4.3
55°	1.4	2.8	1.4	2.8	5.7	5.7
57.5°	1.4	2.8	2.8	4.3	5.7	7.1
60°	2.8	4.3	4.3	4.3	7.1	7.1
62.5°	2.8	4.3	5.7	5.7	7.1	8.5
65°	2.8	5.7	5.7	5.7	7.1	8.5
67.5°	4.3	5.7	5.7	5.7	7.1	8.5
70°	4.3	5.7	5.7	5.7	7.1	7.1
72.5°	4.3	5.7	4.3	5.7	5.7	7.1
75°	4.3	5.7	4.3	4.3	5.7	5.7
77.5°	2.8	4.3	4.3	2.8	4.3	4.3
80°	2.8	4.3	2.8	2.8	4.3	4.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	2.8	4.3	2.8	1.4	2.8	2.8
85°	2.8	4.3	2.8	1.4	1.4	1.4
87.5°	2.8	4.3	2.8	1.4	0.0	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)