

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: P1317718

Luminaire Tested: LDSQA3D20R159827D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317718
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R159827D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

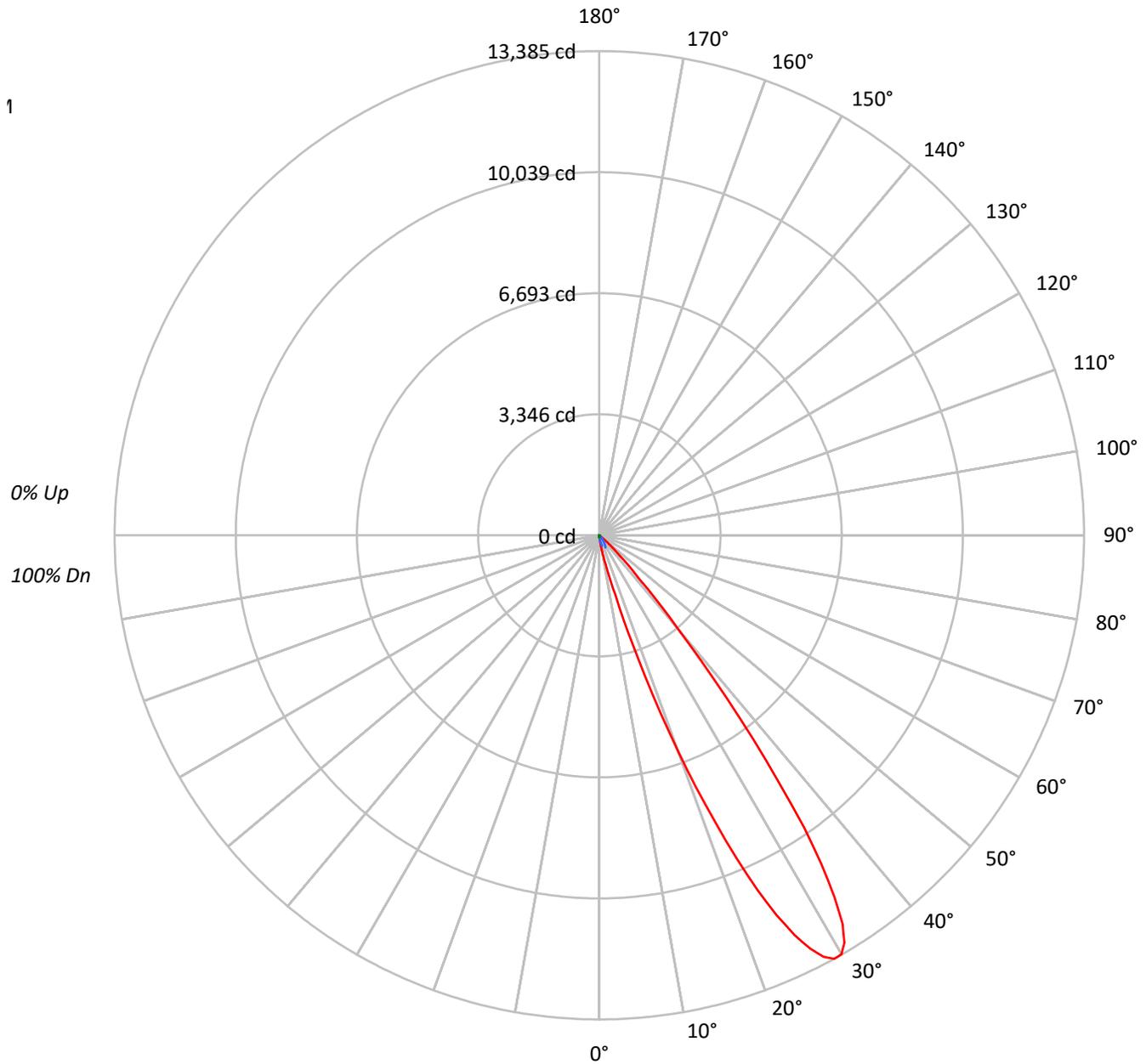
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1462.0 lumens
Efficiency: N/A
Efficacy: 53.4 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
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



— 0°-180° - - - 45°-225° ····· 90°-270°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	75	71	79	74	70	77	73	70	77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	71	66	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	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	42	51	46	42	41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	47	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8336	8336	8336	8336	8336
5°	17945	13277	7866	4184	3440
10°	79588	25113	6226	1749	1242
15°	300985	58072	4315	767	499
20°	1157531	81851	2603	257	257
25°	2201174	76752	1349	0	0
30°	2659052	61947	557	0	0
35°	2073878	42154	294	0	0
40°	756791	20773	315	0	315
45°	194312	6235	341	0	682
50°	32768	750	375	375	1152
55°	4264	0	841	1291	2132
60°	482	482	1481	1963	2928
65°	571	571	2323	2893	3464
70°	705	705	2870	2870	3575
75°	932	932	3793	2861	3793
80°	0	1389	4265	2777	4265
85°	0	2766	8497	2766	2766

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 194312 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.6	0.5
10°-20°	112.0	7.7
20°-30°	621.4	42.5
30°-40°	600.3	41.1
40°-50°	104.4	7.1
50°-60°	7.5	0.5
60°-70°	4.4	0.3
70°-80°	3.6	0.2
80°-90°	1.8	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°	740.0	50.6
0°-40°	1340.3	91.7
0°-60°	1452.2	99.3
0°-90°	1462.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1462.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	48	48	48	48	48	
5°	104	77	46	24	20	20
15°	1688	326	24	4	3	752
25°	11584	404	7	0	0	5179
35°	9864	200	1	0	0	5673
45°	798	26	1	0	3	857
55°	14	0	3	4	7	28
65°	1	1	6	7	8	1
75°	1	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°	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
2.5°	71.1	68.3	69.7	69.7	69.7	69.7	69.7	66.8	66.8	68.3	61.2
5°	103.8	103.8	102.4	103.8	103.8	102.4	99.6	98.1	98.1	95.3	76.8
7.5°	207.6	204.8	204.8	201.9	187.7	183.5	180.6	173.5	160.7	157.9	99.6
10°	455.1	456.5	446.6	433.8	432.3	411.0	403.9	391.1	366.9	342.7	143.6
12.5°	826.3	807.8	783.6	785.0	743.8	729.6	696.9	661.3	624.3	585.9	236.1
15°	1688.1	1635.5	1666.8	1590.0	1503.2	1405.1	1305.5	1180.4	1073.7	960.0	325.7
17.5°	3555.4	3606.6	3519.8	3191.3	2989.4	2751.9	2417.7	2094.8	1818.9	1597.1	398.2
20°	6315.8	6391.2	6096.8	5810.9	5320.3	4785.6	4228.1	3596.6	2992.2	2468.9	446.6
21°	7469.2	7423.7	7302.8	6844.8	6278.8	5658.8	4976.1	4279.3	3546.9	2867.1	450.8
22°	8584.1	8605.5	8323.9	7844.6	7255.9	6568.9	5735.6	4875.2	4085.9	3191.3	443.7
23°	9694.9	9763.1	9390.5	8941.1	8200.2	7425.1	6460.9	5532.2	4556.6	3562.5	429.5
24°	10723.1	10676.1	10424.4	9858.4	9066.3	8158.9	7157.7	6031.4	4943.4	3879.6	418.1
25°	11583.5	11577.8	11182.4	10632.1	9726.1	8720.7	7617.1	6439.5	5274.8	4094.4	403.9
26°	12287.4	12172.3	11860.8	11189.5	10295.0	9234.1	7994.0	6736.8	5461.1	4202.5	389.7
27°	12830.7	12748.2	12330.1	11631.8	10697.5	9524.2	8235.7	6884.7	5546.4	4238.0	371.2
28°	13196.2	13106.6	12661.5	11941.9	10919.3	9706.2	8363.7	6947.2	5546.4	4203.9	354.1
29°	13385.4	13263.0	12819.3	12048.5	10970.5	9727.6	8332.4	6886.1	5459.7	4098.7	334.2
30°	13371.1	13219.0	12753.9	11951.8	10818.4	9552.6	8157.5	6665.7	5263.4	3942.2	311.5
31°	13140.7	12970.1	12451.0	11624.7	10504.1	9222.7	7827.6	6369.8	4994.6	3738.9	288.7
32°	12672.9	12456.7	11950.4	11127.0	10020.5	8729.2	7348.3	5913.3	4592.1	3441.6	264.5
33°	11910.6	11693.0	11149.7	10377.5	9366.3	8103.5	6712.6	5422.7	4134.2	3087.5	244.6
34°	10956.3	10757.2	10289.3	9511.4	8541.5	7311.3	5981.6	4744.3	3659.2	2736.2	223.3
35°	9864.1	9546.9	9123.1	8507.4	7561.6	6324.3	5192.3	4112.9	3170.0	2367.9	200.5
36°	8386.5	8443.4	7994.0	7240.2	6456.6	5486.7	4400.2	3428.8	2650.9	2018.0	180.6
37°	7076.7	6987.1	6701.2	6118.1	5435.5	4472.7	3687.7	2906.9	2229.9	1706.6	159.3
38°	5708.5	5728.5	5448.3	5000.3	4323.4	3677.7	2968.0	2387.8	1865.9	1452.0	139.4
39°	4468.4	4452.8	4377.4	3962.1	3349.2	2925.4	2404.9	1979.6	1554.4	1224.5	118.0
40°	3366.2	3391.8	3215.5	2965.2	2608.2	2259.8	1915.6	1578.6	1285.6	1032.5	92.4
42.5°	1636.9	1676.7	1560.1	1496.1	1338.3	1201.7	1014.0	827.7	704.0	608.7	41.2
45°	797.8	775.1	765.1	733.8	696.9	622.9	551.8	473.6	413.8	357.0	25.6
47.5°	408.2	396.8	396.8	384.0	371.2	347.0	311.5	285.9	257.4	221.9	10.0
50°	122.3	120.9	119.5	120.9	116.6	120.9	123.7	125.1	113.8	112.4	2.8
52.5°	48.4	49.8	48.4	52.6	52.6	51.2	52.6	51.2	49.8	44.1	0.0
55°	14.2	14.2	14.2	14.2	14.2	14.2	15.6	17.1	15.6	17.1	0.0
57.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	0.0
60°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0	1.4
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	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
75°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	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°	48.4	48.4	48.4	48.4	48.4	48.4
2.5°	56.9	49.8	41.2	34.1	31.3	29.9
5°	61.2	45.5	31.3	24.2	21.3	19.9
7.5°	65.4	41.2	24.2	17.1	12.8	11.4
10°	68.3	35.6	18.5	10.0	7.1	7.1
12.5°	68.3	28.4	12.8	5.7	4.3	4.3
15°	66.8	24.2	8.5	4.3	2.8	2.8
17.5°	65.4	18.5	5.7	2.8	1.4	2.8
20°	61.2	14.2	2.8	1.4	1.4	1.4
21°	59.7	12.8	2.8	1.4	1.4	1.4
22°	56.9	11.4	1.4	0.0	1.4	1.4
23°	54.0	8.5	1.4	0.0	0.0	0.0
24°	49.8	7.1	1.4	0.0	0.0	0.0
25°	46.9	7.1	1.4	0.0	0.0	0.0
26°	44.1	4.3	0.0	0.0	0.0	0.0
27°	39.8	2.8	0.0	0.0	0.0	0.0
28°	37.0	2.8	0.0	0.0	0.0	0.0
29°	32.7	2.8	0.0	0.0	0.0	0.0
30°	28.4	2.8	0.0	0.0	0.0	0.0
31°	22.8	1.4	0.0	0.0	0.0	0.0
32°	18.5	1.4	0.0	0.0	0.0	0.0
33°	12.8	1.4	0.0	0.0	0.0	0.0
34°	8.5	1.4	0.0	0.0	0.0	0.0
35°	7.1	1.4	0.0	0.0	0.0	0.0
36°	4.3	1.4	0.0	0.0	0.0	1.4
37°	4.3	1.4	0.0	0.0	0.0	1.4
38°	2.8	1.4	0.0	0.0	0.0	1.4
39°	1.4	1.4	0.0	0.0	0.0	1.4
40°	1.4	1.4	0.0	0.0	0.0	1.4
42.5°	0.0	1.4	0.0	0.0	1.4	2.8
45°	0.0	1.4	0.0	0.0	1.4	2.8
47.5°	0.0	1.4	0.0	0.0	2.8	2.8
50°	0.0	1.4	1.4	1.4	2.8	4.3
52.5°	0.0	2.8	1.4	2.8	4.3	5.7
55°	1.4	2.8	2.8	4.3	5.7	7.1
57.5°	1.4	4.3	4.3	5.7	7.1	7.1
60°	2.8	4.3	5.7	5.7	8.5	8.5
62.5°	2.8	5.7	5.7	5.7	8.5	8.5
65°	2.8	5.7	5.7	7.1	8.5	8.5
67.5°	2.8	5.7	5.7	5.7	7.1	8.5
70°	2.8	5.7	4.3	5.7	7.1	7.1
72.5°	2.8	5.7	4.3	4.3	5.7	7.1
75°	2.8	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	1.4	0.0	0.0	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)