

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: P1316873

Luminaire Tested: LDSQA3D20R259740D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316873
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-61)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R259740D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R25 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

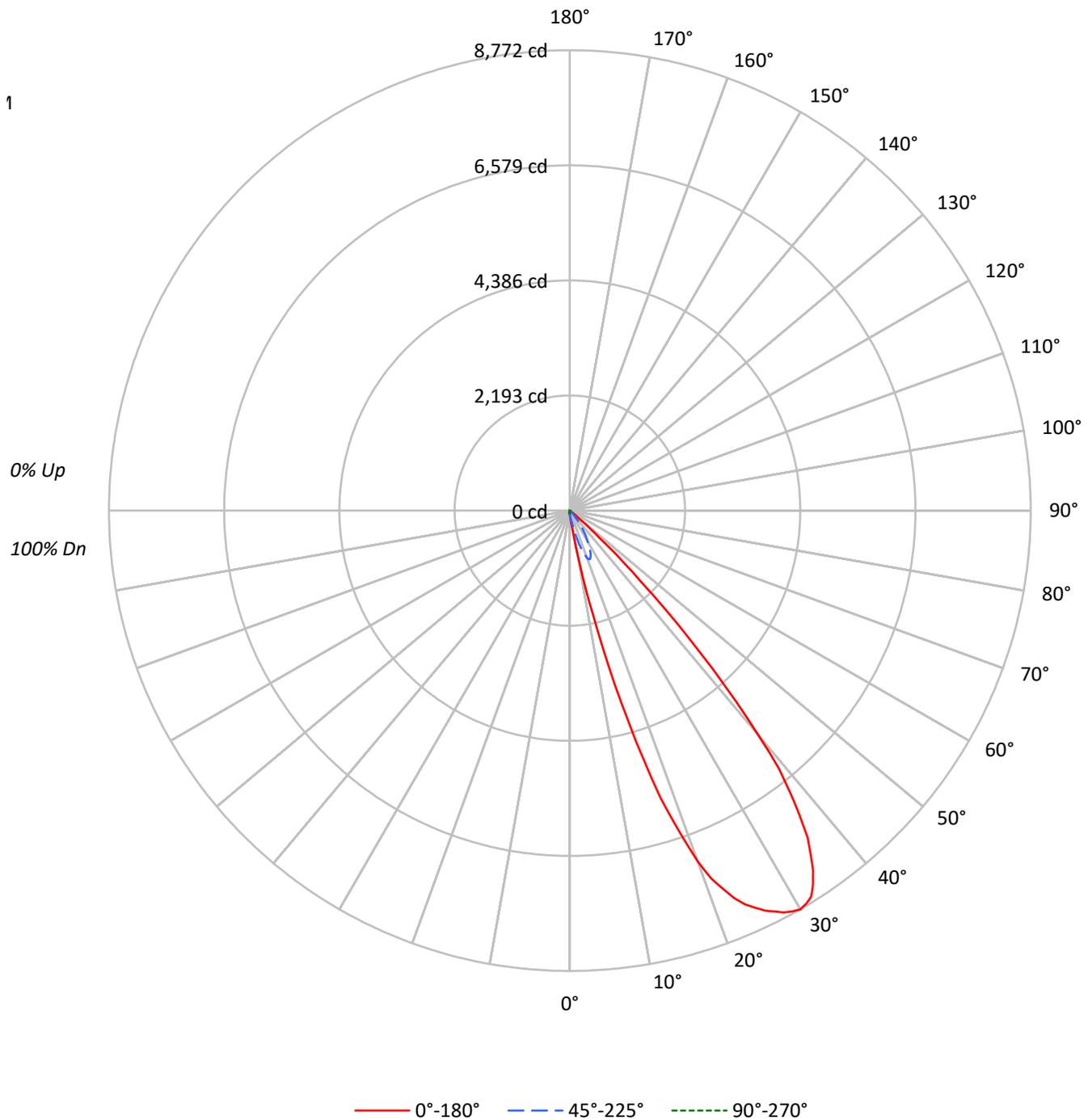
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1754.9 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Spacing Criteria (0/90/45): 2.36 / 0.51 / 1.27
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 (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





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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	95	92	104	98	94	90	95	92	88	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	79	77	83	79	77	75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	76	73	69	68
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	71	66	63	61
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	65	60	57	55
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	60	55	52	50
8	71	60	52	48	70	59	52	47	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	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°	12968	12968	12968	12968	12968
5°	32553	24065	12171	6224	4806
10°	142317	40957	10021	2868	2011
15°	676748	110366	7007	1159	874
20°	1302741	176769	4509	293	293
25°	1586590	178302	2489	0	0
30°	1744409	136442	974	0	0
35°	1681035	86747	336	0	0
40°	1256051	37545	0	0	360
45°	465028	9962	390	390	1193
50°	54845	1313	884	884	1742
55°	5405	0	991	1471	2462
60°	551	0	1688	2239	2824
65°	652	652	2649	3342	3994
70°	806	806	3273	3273	4935
75°	1065	1065	3261	3261	4325
80°	0	1587	4860	3273	4860
85°	0	3162	9683	3162	3162

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 465028 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.9	0.6
10°-20°	204.6	11.7
20°-30°	642.2	36.6
30°-40°	676.1	38.5
40°-50°	198.6	11.3
50°-60°	10.6	0.6
60°-70°	5.1	0.3
70°-80°	4.4	0.3
80°-90°	2.3	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°	857.8	48.9
0°-40°	1533.8	87.4
0°-60°	1743.1	99.3
0°-90°	1754.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1754.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	75	75	75	75	75	
5°	188	139	70	36	28	34
15°	3796	619	39	6	5	1196
25°	8349	938	13	0	0	3830
35°	7996	413	2	0	0	4825
45°	1909	41	2	2	5	1735
55°	18	0	3	5	8	46
65°	2	2	6	8	10	2
75°	2	2	5	5	6	1
85°	0	2	5	2	2	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
2.5°	116.3	117.9	113.0	116.3	113.0	111.3	109.7	101.5	88.4	75.3	62.2
5°	188.3	188.3	180.1	178.5	175.2	168.7	162.1	139.2	99.9	70.4	49.1
7.5°	294.7	293.1	289.8	281.6	265.3	248.9	232.5	181.8	109.7	65.5	37.7
10°	813.8	802.3	787.6	699.2	599.3	510.9	433.9	234.2	117.9	57.3	27.8
12.5°	2022.2	1956.7	1801.2	1624.3	1398.4	1160.9	928.4	381.5	121.2	47.5	19.6
15°	3795.6	3659.7	3417.3	3063.6	2601.9	2082.8	1640.7	619.0	117.9	39.3	14.7
17.5°	5731.0	5600.0	5264.4	4727.3	4047.7	3250.3	2467.6	820.4	109.7	32.7	9.8
20°	7108.1	6968.9	6654.5	6084.7	5349.5	4286.8	3248.7	964.5	103.2	24.6	4.9
21°	7510.9	7371.7	7039.3	6489.2	5716.3	4650.3	3499.2	989.0	98.2	21.3	3.3
22°	7766.4	7684.5	7327.5	6793.7	6006.1	4941.8	3713.7	1000.5	95.0	19.6	3.3
23°	8023.4	7900.6	7566.6	7003.3	6227.2	5157.9	3872.5	992.3	91.7	16.4	1.6
24°	8213.4	8110.2	7722.2	7165.4	6381.1	5290.6	3965.9	971.0	86.8	14.7	1.6
25°	8349.3	8254.3	7849.9	7275.1	6484.3	5362.6	3995.3	938.3	81.9	13.1	1.6
26°	8478.7	8375.5	7956.3	7339.0	6538.3	5385.5	3967.5	902.2	77.0	11.5	0.0
27°	8572.0	8467.2	8030.0	7376.7	6541.6	5357.7	3892.2	853.1	72.0	9.8	0.0
28°	8671.9	8550.7	8080.8	7397.9	6521.9	5292.2	3784.1	800.7	68.8	8.2	0.0
29°	8732.5	8617.8	8133.2	7420.9	6481.0	5182.5	3626.9	738.5	60.6	4.9	0.0
30°	8771.8	8635.8	8128.2	7396.3	6426.9	5064.6	3438.6	686.1	52.4	4.9	0.0
31°	8739.0	8596.5	8075.8	7327.5	6340.2	4910.7	3245.4	620.6	42.6	3.3	0.0
32°	8668.6	8499.9	7984.1	7208.0	6184.6	4712.5	3045.6	566.6	31.1	3.3	0.0
33°	8496.7	8354.2	7818.8	7047.5	5981.6	4444.0	2785.3	514.2	21.3	1.6	0.0
34°	8280.5	8138.1	7592.8	6833.0	5709.7	4096.9	2469.3	460.1	18.0	1.6	0.0
35°	7995.6	7854.8	7337.4	6533.4	5349.5	3679.3	2143.4	412.6	14.7	1.6	0.0
36°	7696.0	7509.3	7014.8	6214.1	4866.5	3204.5	1794.6	358.6	11.5	1.6	0.0
37°	7255.5	7129.4	6580.9	5727.8	4344.1	2749.3	1540.8	309.5	8.2	1.6	0.0
38°	6798.6	6682.4	6146.9	5238.2	3761.2	2299.0	1290.3	262.0	6.5	0.0	0.0
39°	6327.1	6133.8	5604.9	4611.0	3150.4	1925.6	1085.6	219.4	3.3	0.0	0.0
40°	5586.9	5439.6	4874.7	3857.8	2606.8	1560.5	925.2	167.0	3.3	0.0	0.0
42.5°	3703.9	3566.3	2973.6	2092.6	1385.3	912.1	610.8	65.5	0.0	1.6	0.0
45°	1909.3	1822.5	1480.2	1095.4	786.0	560.0	393.0	40.9	0.0	1.6	1.6
47.5°	758.1	743.4	671.3	579.7	447.0	332.4	214.5	18.0	0.0	1.6	1.6
50°	204.7	206.3	193.2	178.5	162.1	152.3	90.1	4.9	0.0	3.3	1.6
52.5°	86.8	88.4	85.1	80.2	72.0	54.0	36.0	1.6	1.6	3.3	3.3
55°	18.0	19.6	21.3	22.9	26.2	22.9	14.7	0.0	1.6	3.3	3.3
57.5°	3.3	3.3	3.3	3.3	4.9	4.9	3.3	0.0	1.6	3.3	4.9
60°	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0	3.3	4.9	4.9
62.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.3	4.9	6.5
65°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.3	6.5	6.5
67.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	4.9	6.5	6.5
70°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	4.9	6.5	6.5
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	4.9	6.5	4.9
75°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	4.9	4.9	4.9
77.5°	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	3.3	4.9	4.9
80°	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	3.3	4.9	3.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	3.3	4.9	3.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.3	4.9	3.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.3	4.9	3.3
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):

	135°	157.5°	180°
0°	75.3	75.3	75.3
2.5°	52.4	47.5	45.8
5°	36.0	31.1	27.8
7.5°	24.6	19.6	18.0
10°	16.4	13.1	11.5
12.5°	11.5	6.5	6.5
15°	6.5	4.9	4.9
17.5°	3.3	1.6	1.6
20°	1.6	1.6	1.6
21°	0.0	0.0	0.0
22°	0.0	0.0	0.0
23°	0.0	0.0	0.0
24°	0.0	0.0	0.0
25°	0.0	0.0	0.0
26°	0.0	0.0	0.0
27°	0.0	0.0	0.0
28°	0.0	0.0	0.0
29°	0.0	0.0	0.0
30°	0.0	0.0	0.0
31°	0.0	0.0	0.0
32°	0.0	0.0	0.0
33°	0.0	0.0	0.0
34°	0.0	0.0	0.0
35°	0.0	0.0	0.0
36°	0.0	0.0	0.0
37°	0.0	0.0	0.0
38°	0.0	0.0	1.6
39°	0.0	1.6	1.6
40°	0.0	1.6	1.6
42.5°	0.0	1.6	3.3
45°	1.6	3.3	4.9
47.5°	3.3	4.9	6.5
50°	3.3	6.5	6.5
52.5°	4.9	6.5	8.2
55°	4.9	8.2	8.2
57.5°	6.5	8.2	9.8
60°	6.5	8.2	8.2
62.5°	6.5	9.8	9.8
65°	8.2	9.8	9.8
67.5°	8.2	9.8	9.8
70°	6.5	8.2	9.8
72.5°	6.5	8.2	8.2
75°	4.9	6.5	6.5
77.5°	4.9	4.9	6.5
80°	3.3	4.9	4.9



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
82.5°	3.3	3.3	3.3
85°	1.6	1.6	1.6
87.5°	1.6	1.6	1.6
90°	0.0	0.0	0.0

(END OF REPORT)