

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: P1309511

Luminaire Tested: LDSQA3D20R209030D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309511
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: LDSQA3D20R209030D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

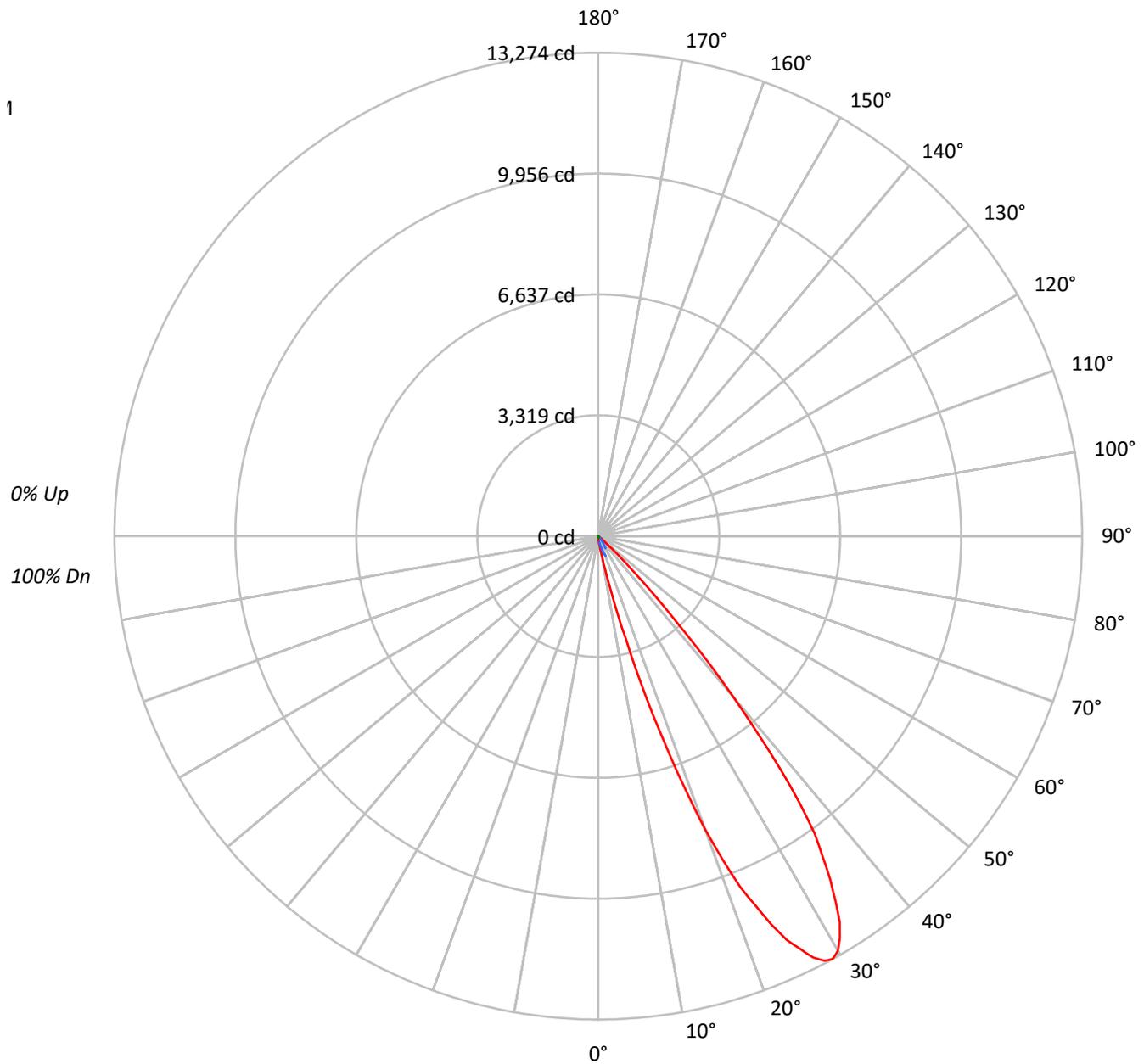
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1862.1 lumens
Efficiency: N/A
Efficacy: 64.7 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
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



— 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	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°	11057	11057	11057	11057	11057
5°	25413	18982	10511	6431	5549
10°	80060	33087	8569	3550	2658
15°	518651	61138	6330	1212	303
20°	1565356	104650	4325	0	0
25°	2324729	105617	2565	0	0
30°	2614267	80282	1014	0	0
35°	2255635	47957	715	0	0
40°	1298857	16322	0	0	0
45°	316798	6576	414	0	414
50°	38019	1822	455	455	1366
55°	5074	0	1021	1021	2042
60°	586	0	1757	1757	2893
65°	693	693	2771	2771	4116
70°	856	856	3424	3424	4230
75°	0	1131	4525	3394	4525
80°	0	1686	5058	3372	5058
85°	0	3359	10078	3359	3359

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°
 Vertical Angle: 45°
 Luminance: 318868 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.6	0.5
10°-20°	172.6	9.3
20°-30°	752.1	40.4
30°-40°	757.4	40.7
40°-50°	151.9	8.2
50°-60°	7.6	0.4
60°-70°	5.0	0.3
70°-80°	4.5	0.2
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°	933.3	50.1
0°-40°	1690.7	90.8
0°-60°	1850.3	99.4
0°-90°	1862.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1862.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	64	64	64	64	64	
5°	147	110	61	37	32	23
15°	2909	343	36	7	2	1139
25°	12234	556	14	0	0	5516
35°	10729	228	3	0	0	6384
45°	1301	27	2	0	2	1416
55°	17	0	3	3	7	31
65°	2	2	7	7	10	2
75°	0	2	7	5	7	1
85°	0	2	5	2	2	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°	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
2.5°	96.3	96.3	94.6	94.6	92.9	94.6	91.2	92.9	92.9	91.2	82.8
5°	147.0	150.3	148.7	148.7	147.0	148.7	145.3	141.9	138.5	138.5	109.8
7.5°	241.6	239.9	236.5	238.2	233.1	229.7	226.4	224.7	214.5	209.5	143.6
10°	457.8	467.9	459.5	457.8	427.4	425.7	405.4	376.7	351.4	337.9	189.2
12.5°	1260.2	1314.3	1229.8	1189.2	1165.6	1074.4	1035.5	935.9	839.6	766.9	239.9
15°	2908.9	3042.4	2871.8	2883.6	2741.7	2481.5	2253.5	2057.5	1826.1	1593.0	342.9
17.5°	5699.6	5591.5	5498.6	5341.5	5052.6	4670.8	4179.3	3680.9	3250.2	2799.1	478.1
20°	8541.0	8444.7	8233.5	7890.6	7522.3	6956.4	6371.9	5623.6	4898.9	4219.8	571.0
21°	9519.1	9487.0	9140.7	8929.5	8361.9	7821.3	7147.3	6346.6	5530.7	4726.6	586.2
22°	10392.4	10199.8	10014.0	9701.5	9137.3	8549.4	7799.4	6956.4	6071.3	5177.6	587.9
23°	10997.2	10909.3	10733.7	10380.6	9819.8	9128.8	8338.3	7456.5	6524.0	5496.9	582.8
24°	11666.1	11554.6	11297.9	10885.7	10319.8	9637.3	8735.2	7860.2	6846.6	5765.5	569.3
25°	12233.7	12059.7	11755.7	11311.4	10693.1	9988.7	9081.5	8120.3	7071.3	5946.2	555.8
26°	12602.0	12507.4	12117.2	11634.0	10971.8	10245.5	9319.7	8319.7	7216.6	6029.0	533.8
27°	12985.5	12811.5	12428.0	11872.2	11154.3	10412.7	9454.9	8416.0	7267.3	6032.4	506.8
28°	13205.1	13015.9	12581.7	11997.2	11272.5	10505.6	9532.6	8446.4	7257.1	5980.0	474.7
29°	13274.3	13036.1	12612.1	12017.5	11301.3	10512.4	9520.8	8402.5	7167.6	5851.6	437.5
30°	13145.9	12902.7	12500.6	11921.2	11210.0	10427.9	9411.0	8257.2	7008.8	5667.5	403.7
31°	12865.5	12659.4	12270.9	11689.8	11007.3	10230.3	9162.6	8019.0	6738.5	5420.9	364.9
32°	12495.6	12292.9	11911.1	11385.7	10691.4	9907.6	8823.1	7647.3	6420.9	5052.6	326.0
33°	11939.8	11823.2	11480.3	10978.6	10284.3	9446.4	8367.0	7203.1	5968.2	4643.8	292.2
34°	11377.3	11230.3	10990.4	10441.4	9694.8	8858.6	7772.4	6589.9	5415.8	4186.0	260.1
35°	10728.6	10640.7	10264.0	9824.8	9074.8	8220.0	7140.6	5993.5	4772.2	3675.9	228.1
36°	10100.2	9965.0	9536.0	9071.4	8343.3	7419.3	6353.4	5275.6	4216.4	3197.8	194.3
37°	9188.0	8981.9	8676.1	8186.2	7334.8	6547.6	5574.6	4574.6	3532.3	2680.9	157.1
38°	8115.3	8019.0	7595.0	7101.7	6397.3	5650.6	4687.7	3839.7	2914.0	2238.3	119.9
39°	6850.0	6848.3	6442.9	6086.5	5397.2	4724.9	3856.6	3116.7	2405.5	1802.5	92.9
40°	5777.3	5578.0	5328.0	4880.3	4351.6	3780.6	3020.4	2439.3	1866.6	1452.8	72.6
42.5°	3028.9	3012.0	2865.0	2528.8	2233.2	1897.1	1508.5	1256.8	983.2	800.7	45.6
45°	1300.7	1309.2	1207.8	1157.2	1042.3	902.1	761.9	635.2	543.9	440.9	27.0
47.5°	329.4	315.9	312.5	324.3	324.3	314.2	282.1	265.2	244.9	224.7	15.2
50°	141.9	138.5	135.1	135.1	126.7	121.6	113.2	103.0	94.6	84.5	6.8
52.5°	52.4	54.1	55.7	54.1	54.1	52.4	52.4	50.7	45.6	40.5	3.4
55°	16.9	16.9	16.9	18.6	18.6	20.3	20.3	20.3	20.3	18.6	0.0
57.5°	3.4	3.4	5.1	5.1	5.1	5.1	5.1	5.1	6.8	6.8	0.0
60°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0
62.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
65°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
67.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
70°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
72.5°	1.7	0.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
75°	0.0	0.0	0.0	1.7	0.0	1.7	1.7	0.0	1.7	1.7	1.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7



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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	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
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°	64.2	64.2	64.2	64.2	64.2	64.2
2.5°	74.3	65.9	55.7	47.3	45.6	43.9
5°	82.8	60.8	45.6	37.2	33.8	32.1
7.5°	89.5	55.7	37.2	27.0	23.6	22.0
10°	92.9	49.0	30.4	20.3	15.2	15.2
12.5°	94.6	42.2	22.0	13.5	8.4	8.4
15°	92.9	35.5	16.9	6.8	1.7	1.7
17.5°	84.5	28.7	10.1	1.7	0.0	0.0
20°	72.6	23.6	6.8	0.0	0.0	0.0
21°	69.3	20.3	5.1	0.0	0.0	0.0
22°	64.2	18.6	3.4	0.0	0.0	0.0
23°	59.1	16.9	3.4	0.0	0.0	0.0
24°	54.1	15.2	1.7	0.0	0.0	0.0
25°	50.7	13.5	1.7	0.0	0.0	0.0
26°	47.3	11.8	1.7	0.0	0.0	0.0
27°	42.2	10.1	0.0	0.0	0.0	0.0
28°	38.9	8.4	0.0	0.0	0.0	0.0
29°	33.8	6.8	0.0	0.0	0.0	0.0
30°	28.7	5.1	0.0	0.0	0.0	0.0
31°	23.6	5.1	0.0	0.0	0.0	0.0
32°	20.3	3.4	0.0	0.0	0.0	0.0
33°	16.9	3.4	0.0	0.0	0.0	0.0
34°	15.2	3.4	0.0	0.0	0.0	0.0
35°	13.5	3.4	0.0	0.0	0.0	0.0
36°	10.1	1.7	0.0	0.0	0.0	0.0
37°	8.4	1.7	0.0	0.0	0.0	0.0
38°	6.8	1.7	0.0	0.0	0.0	0.0
39°	5.1	0.0	0.0	0.0	0.0	0.0
40°	5.1	0.0	0.0	0.0	0.0	0.0
42.5°	1.7	0.0	0.0	0.0	0.0	0.0
45°	0.0	1.7	0.0	0.0	1.7	1.7
47.5°	0.0	1.7	0.0	0.0	1.7	3.4
50°	0.0	1.7	1.7	1.7	3.4	5.1
52.5°	0.0	3.4	1.7	1.7	5.1	5.1
55°	1.7	3.4	1.7	3.4	6.8	6.8
57.5°	1.7	3.4	3.4	5.1	6.8	8.4
60°	3.4	5.1	5.1	5.1	8.4	8.4
62.5°	3.4	5.1	6.8	6.8	8.4	10.1
65°	3.4	6.8	6.8	6.8	8.4	10.1
67.5°	5.1	6.8	6.8	6.8	8.4	10.1
70°	5.1	6.8	6.8	6.8	8.4	8.4
72.5°	5.1	6.8	5.1	6.8	6.8	8.4
75°	5.1	6.8	5.1	5.1	6.8	6.8
77.5°	3.4	5.1	5.1	3.4	5.1	5.1
80°	3.4	5.1	3.4	3.4	5.1	5.1



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	3.4	5.1	3.4	1.7	3.4	3.4
85°	3.4	5.1	3.4	1.7	1.7	1.7
87.5°	3.4	5.1	3.4	1.7	0.0	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)