

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: P1310629

Luminaire Tested: LDSQA3D20R209035D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310629
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: LDSQA3D20R209035D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

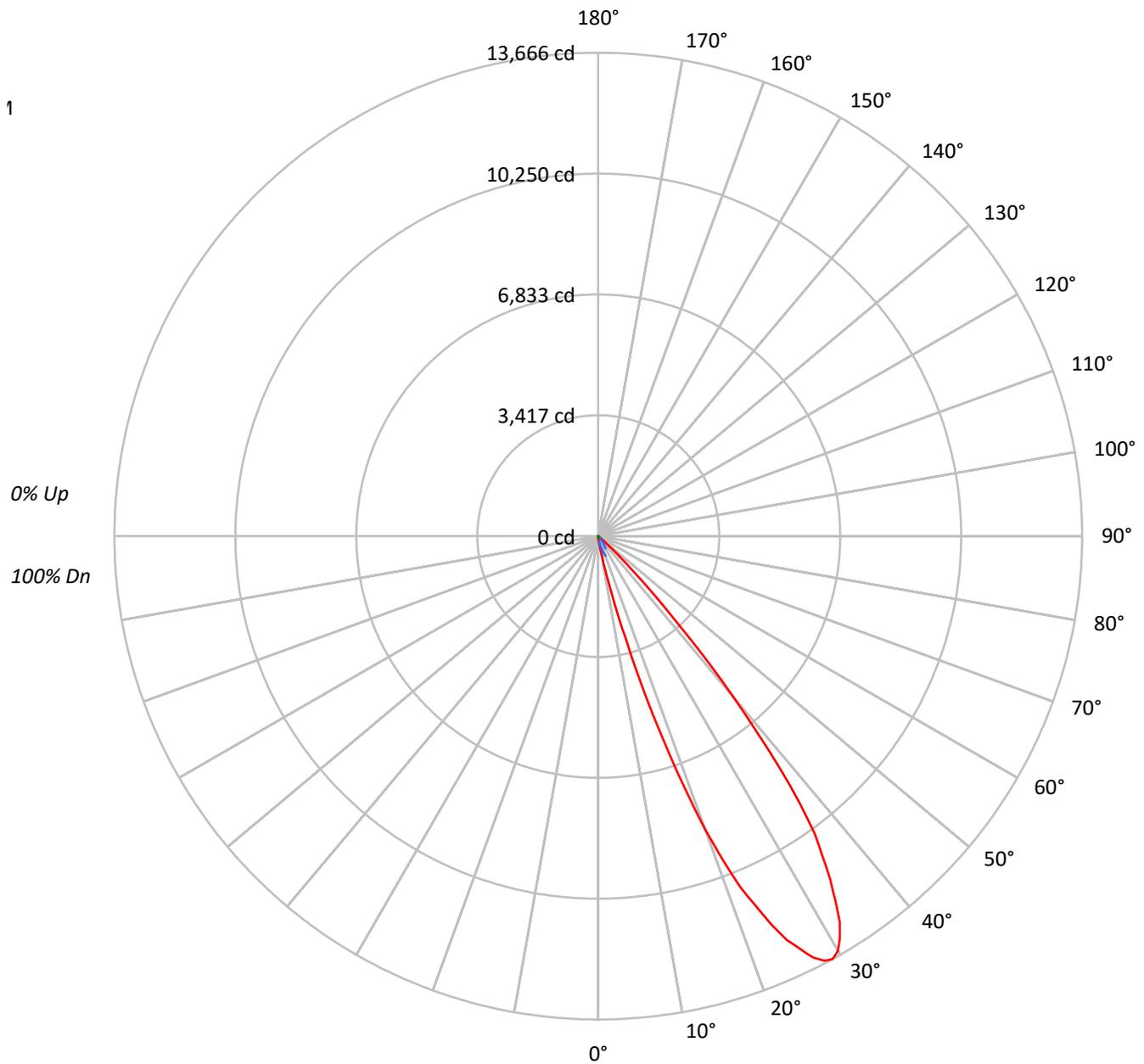
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1917.0 lumens
Efficiency: N/A
Efficacy: 66.6 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 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 (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	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°	11384	11384	11384	11384	11384
5°	26157	19535	10822	6621	5705
10°	82421	34067	8814	3655	2746
15°	533985	62957	6508	1248	303
20°	1611597	107729	4454	0	0
25°	2393405	108733	2641	0	0
30°	2691486	82668	1034	0	0
35°	2322261	49366	736	0	0
40°	1337233	16817	0	0	0
45°	326175	6771	414	0	414
50°	39145	1876	455	455	1393
55°	5225	0	1051	1051	2102
60°	586	0	1791	1791	2997
65°	693	693	2853	2853	4238
70°	856	856	3525	3525	4381
75°	0	1131	4658	3460	4658
80°	0	1686	5157	3471	5157
85°	0	3359	10275	3359	3359

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°
 Vertical Angle: 45°
 Luminance: 328294 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.9	0.5
10°-20°	177.7	9.3
20°-30°	774.4	40.4
30°-40°	779.8	40.7
40°-50°	156.4	8.2
50°-60°	7.9	0.4
60°-70°	5.2	0.3
70°-80°	4.6	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°	960.9	50.1
0°-40°	1740.7	90.8
0°-60°	1904.9	99.4
0°-90°	1917.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1917.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	66	66	66	66	66	
5°	151	113	63	38	33	24
15°	2995	353	36	7	2	1173
25°	12595	572	14	0	0	5679
35°	11046	235	4	0	0	6572
45°	1339	28	2	0	2	1458
55°	17	0	4	4	7	32
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°	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
2.5°	99.1	99.1	97.4	97.4	95.7	97.4	93.9	95.7	95.7	93.9	85.2
5°	151.3	154.8	153.0	153.0	151.3	153.0	149.6	146.1	142.6	142.6	113.0
7.5°	248.7	247.0	243.5	245.2	240.0	236.5	233.0	231.3	220.9	215.7	147.8
10°	471.3	481.8	473.1	471.3	440.0	438.3	417.4	387.8	361.7	347.8	194.8
12.5°	1297.4	1353.1	1266.1	1224.4	1200.0	1106.1	1066.1	963.5	864.4	789.6	247.0
15°	2994.9	3132.3	2956.6	2968.8	2822.7	2554.8	2320.1	2118.3	1880.0	1640.0	353.1
17.5°	5868.0	5756.7	5661.0	5499.3	5201.9	4808.8	4302.7	3789.7	3346.2	2881.8	492.2
20°	8793.3	8694.1	8476.7	8123.7	7744.5	7161.9	6560.2	5789.7	5043.6	4344.5	587.8
21°	9800.2	9767.2	9410.7	9193.3	8608.9	8052.4	7358.4	6534.1	5694.1	4866.2	603.5
22°	10699.4	10501.1	10309.8	9988.1	9407.2	8802.0	8029.8	7161.9	6250.6	5330.6	605.2
23°	11322.0	11231.6	11050.7	10687.2	10109.8	9398.5	8584.6	7676.7	6716.7	5659.3	600.0
24°	12010.7	11895.9	11631.6	11207.2	10624.6	9922.0	8993.3	8092.4	7048.9	5935.8	586.1
25°	12595.1	12416.0	12102.9	11645.5	11009.0	10283.7	9349.8	8360.2	7280.2	6121.9	572.2
26°	12974.2	12876.8	12475.1	11977.7	11295.9	10548.1	9595.0	8565.4	7429.7	6207.1	549.6
27°	13369.0	13189.9	12795.1	12222.9	11483.8	10720.3	9734.2	8664.6	7481.9	6210.6	521.8
28°	13595.1	13400.3	12953.4	12351.6	11605.5	10815.9	9814.2	8695.9	7471.5	6156.7	488.7
29°	13666.4	13421.2	12984.7	12372.5	11635.1	10822.9	9802.0	8650.6	7379.3	6024.5	450.4
30°	13534.2	13283.8	12869.9	12273.3	11541.2	10735.9	9688.9	8501.1	7215.8	5834.9	415.7
31°	13245.5	13033.4	12633.4	12035.1	11332.5	10532.4	9433.3	8255.9	6937.6	5581.0	375.7
32°	12864.7	12656.0	12262.9	11722.0	11007.2	10200.3	9083.7	7873.2	6610.6	5201.9	335.7
33°	12292.5	12172.5	11819.4	11302.9	10588.1	9725.5	8614.1	7415.8	6144.5	4781.0	300.9
34°	11713.3	11562.0	11315.1	10749.8	9981.1	9120.2	8001.9	6784.5	5575.8	4309.7	267.8
35°	11045.5	10955.1	10567.2	10115.0	9342.8	8462.8	7351.5	6170.6	4913.2	3784.4	234.8
36°	10398.5	10259.4	9817.6	9339.4	8589.8	7638.4	6541.0	5431.4	4341.0	3292.3	200.0
37°	9459.4	9247.2	8932.4	8428.0	7551.5	6741.0	5739.3	4709.7	3636.6	2760.1	161.7
38°	8355.0	8255.9	7819.3	7311.5	6586.2	5817.5	4826.2	3953.1	3000.1	2304.4	123.5
39°	7052.3	7050.6	6633.2	6266.2	5556.7	4864.5	3970.5	3208.8	2476.6	1855.7	95.7
40°	5948.0	5742.8	5485.4	5024.5	4480.1	3892.3	3109.6	2511.4	1921.8	1495.7	74.8
42.5°	3118.3	3100.9	2949.6	2603.5	2299.2	1953.1	1553.1	1293.9	1012.2	824.4	47.0
45°	1339.2	1347.9	1243.5	1191.3	1073.1	928.7	784.4	653.9	560.0	453.9	27.8
47.5°	339.1	325.2	321.7	333.9	333.9	323.5	290.4	273.1	252.2	231.3	15.7
50°	146.1	142.6	139.1	139.1	130.4	125.2	116.5	106.1	97.4	87.0	7.0
52.5°	53.9	55.7	57.4	55.7	55.7	53.9	53.9	52.2	47.0	41.7	3.5
55°	17.4	17.4	17.4	19.1	19.1	20.9	20.9	20.9	20.9	19.1	0.0
57.5°	3.5	3.5	5.2	5.2	5.2	5.2	5.2	5.2	7.0	7.0	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°	66.1	66.1	66.1	66.1	66.1	66.1
2.5°	76.5	67.8	57.4	48.7	47.0	45.2
5°	85.2	62.6	47.0	38.3	34.8	33.0
7.5°	92.2	57.4	38.3	27.8	24.3	22.6
10°	95.7	50.4	31.3	20.9	15.7	15.7
12.5°	97.4	43.5	22.6	13.9	8.7	8.7
15°	95.7	36.5	17.4	7.0	1.7	1.7
17.5°	87.0	29.6	10.4	1.7	0.0	0.0
20°	74.8	24.3	7.0	0.0	0.0	0.0
21°	71.3	20.9	5.2	0.0	0.0	0.0
22°	66.1	19.1	3.5	0.0	0.0	0.0
23°	60.9	17.4	3.5	0.0	0.0	0.0
24°	55.7	15.7	1.7	0.0	0.0	0.0
25°	52.2	13.9	1.7	0.0	0.0	0.0
26°	48.7	12.2	1.7	0.0	0.0	0.0
27°	43.5	10.4	0.0	0.0	0.0	0.0
28°	40.0	8.7	0.0	0.0	0.0	0.0
29°	34.8	7.0	0.0	0.0	0.0	0.0
30°	29.6	5.2	0.0	0.0	0.0	0.0
31°	24.3	5.2	0.0	0.0	0.0	0.0
32°	20.9	3.5	0.0	0.0	0.0	0.0
33°	17.4	3.5	0.0	0.0	0.0	0.0
34°	15.7	3.5	0.0	0.0	0.0	0.0
35°	13.9	3.5	0.0	0.0	0.0	0.0
36°	10.4	1.7	0.0	0.0	0.0	0.0
37°	8.7	1.7	0.0	0.0	0.0	0.0
38°	7.0	1.7	0.0	0.0	0.0	0.0
39°	5.2	0.0	0.0	0.0	0.0	0.0
40°	5.2	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	3.5
50°	0.0	1.7	1.7	1.7	3.5	5.2
52.5°	0.0	3.5	1.7	1.7	5.2	5.2
55°	1.7	3.5	1.7	3.5	7.0	7.0
57.5°	1.7	3.5	3.5	5.2	7.0	8.7
60°	3.5	5.2	5.2	5.2	8.7	8.7
62.5°	3.5	5.2	7.0	7.0	8.7	10.4
65°	3.5	7.0	7.0	7.0	8.7	10.4
67.5°	5.2	7.0	7.0	7.0	8.7	10.4
70°	5.2	7.0	7.0	7.0	8.7	8.7
72.5°	5.2	7.0	5.2	7.0	7.0	8.7
75°	5.2	7.0	5.2	5.2	7.0	7.0
77.5°	3.5	5.2	5.2	3.5	5.2	5.2
80°	3.5	5.2	3.5	3.5	5.2	5.2



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	3.5	5.2	3.5	1.7	3.5	3.5
85°	3.5	5.2	3.5	1.7	1.7	1.7
87.5°	3.5	5.2	3.5	1.7	0.0	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)