

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: P1326013

Luminaire Tested: LDSQA3D09R20W2N902765DE010 3LSQCA30R 1MW_5000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1326013
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: LDSQA3D09R20W2N902765DE010 3LSQCA30R 1MW_5000K
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 5000K CCT AND, 90CRI ,
3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

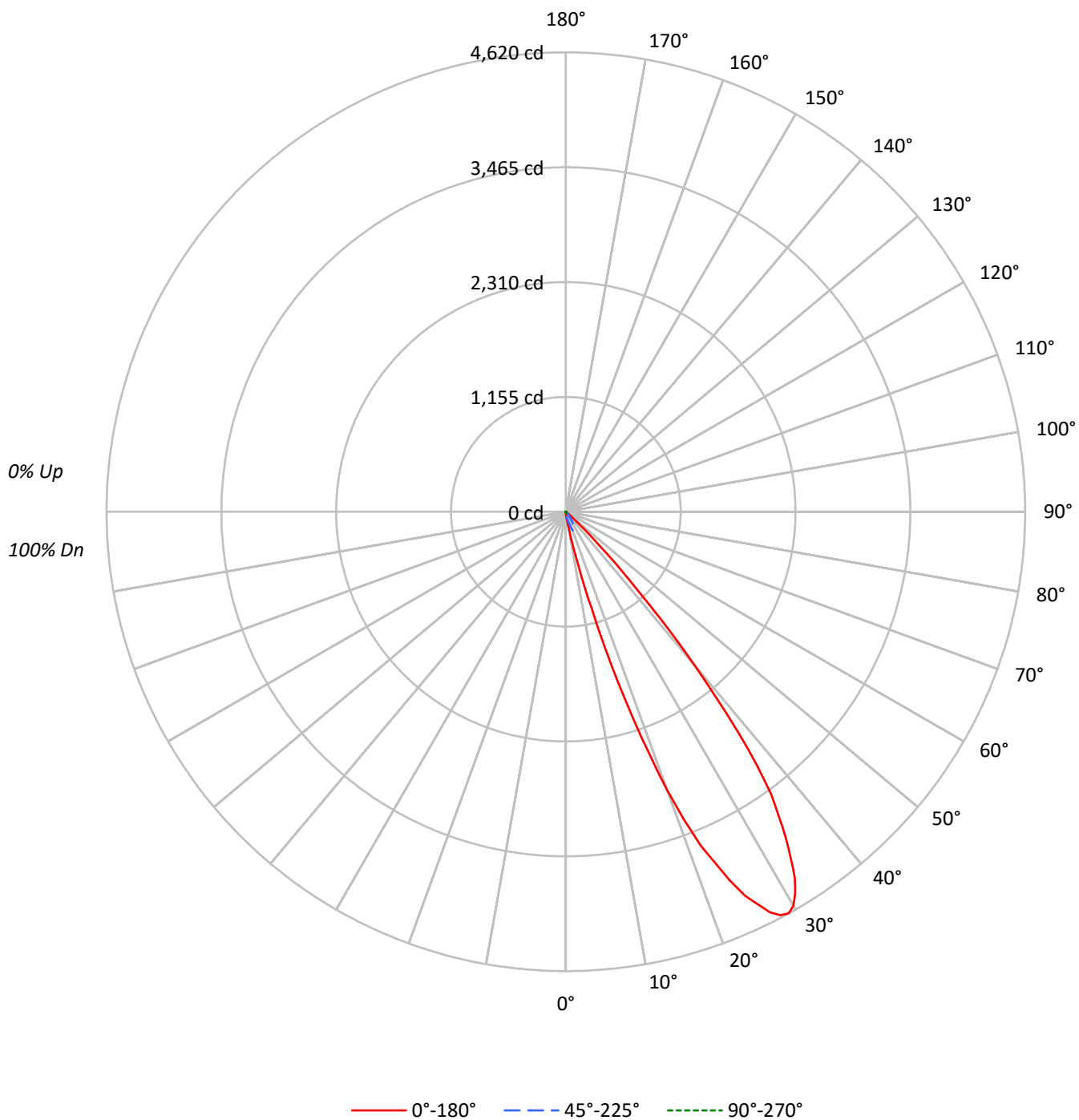
Lumens per Lamp: N/A
Luminaire Lumens: 648.1 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 9
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



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3841	3841	3841	3841	3841
5°	8834	6604	3665	2230	1936
10°	27858	11507	2973	1242	927
15°	180491	21271	2193	428	107
20°	544768	36417	1503	0	0
25°	809039	36751	893	0	0
30°	909810	27941	358	0	0
35°	784992	16693	252	0	0
40°	452024	5688	0	0	0
45°	110259	2289	146	0	146
50°	13236	643	161	161	482
55°	1772	0	360	360	721
60°	207	0	620	620	999
65°	245	245	978	978	1426
70°	302	302	1209	1209	1460
75°	0	399	1597	1198	1597
80°	0	595	1785	1190	1785
85°	0	1186	3557	1186	1186

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 110966 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.0	0.5
10°-20°	60.0	9.3
20°-30°	261.8	40.4
30°-40°	263.6	40.7
40°-50°	52.9	8.2
50°-60°	2.7	0.4
60°-70°	1.8	0.3
70°-80°	1.6	0.2
80°-90°	0.8	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°	324.8	50.1
0°-40°	588.4	90.8
0°-60°	643.9	99.4
0°-90°	648.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	648.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	22	22	22	22	22	
5°	51	38	21	13	11	8
15°	1012	119	12	2	1	397
25°	4258	193	5	0	0	1920
35°	3734	79	1	0	0	2222
45°	453	9	1	0	1	493
55°	6	0	1	1	2	11
65°	1	1	2	2	4	1
75°	0	1	2	2	2	0
85°	0	1	2	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°	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3
2.5°	33.5	33.5	32.9	32.9	32.3	32.9	31.7	32.3	32.3	31.7	28.8
5°	51.1	52.3	51.7	51.7	51.1	51.7	50.6	49.4	48.2	48.2	38.2
7.5°	84.1	83.5	82.3	82.9	81.1	80.0	78.8	78.2	74.7	72.9	50.0
10°	159.3	162.8	159.9	159.3	148.7	148.1	141.1	131.1	122.3	117.6	65.8
12.5°	438.6	457.4	428.0	413.9	405.6	373.9	360.4	325.7	292.2	266.9	83.5
15°	1012.3	1058.8	999.4	1003.5	954.1	863.6	784.2	716.0	635.5	554.4	119.3
17.5°	1983.5	1945.9	1913.6	1858.9	1758.4	1625.5	1454.4	1281.0	1131.1	974.1	166.4
20°	2972.4	2938.9	2865.4	2746.0	2617.9	2420.9	2217.5	1957.1	1704.9	1468.5	198.7
21°	3312.8	3301.6	3181.1	3107.6	2910.1	2721.9	2487.4	2208.7	1924.8	1644.9	204.0
22°	3616.7	3549.7	3485.0	3376.2	3179.9	2975.3	2714.3	2420.9	2112.9	1801.9	204.6
23°	3827.2	3796.6	3735.5	3612.6	3417.4	3177.0	2901.8	2594.9	2270.4	1913.0	202.8
24°	4060.0	4021.2	3931.8	3788.4	3591.4	3353.9	3040.0	2735.5	2382.7	2006.5	198.1
25°	4257.5	4196.9	4091.1	3936.5	3721.3	3476.2	3160.5	2826.0	2460.9	2069.4	193.4
26°	4385.7	4352.7	4216.9	4048.8	3818.3	3565.6	3243.4	2895.4	2511.5	2098.2	185.8
27°	4519.1	4458.6	4325.1	4131.7	3881.8	3623.8	3290.4	2928.9	2529.1	2099.4	176.4
28°	4595.5	4529.7	4378.6	4175.2	3923.0	3656.1	3317.5	2939.4	2525.6	2081.1	165.2
29°	4619.6	4536.7	4389.2	4182.2	3933.0	3658.4	3313.3	2924.2	2494.4	2036.4	152.3
30°	4575.0	4490.3	4350.4	4148.7	3901.2	3629.0	3275.1	2873.6	2439.2	1972.4	140.5
31°	4477.4	4405.6	4270.4	4068.2	3830.7	3560.3	3188.7	2790.7	2345.1	1886.5	127.0
32°	4348.6	4278.1	4145.2	3962.4	3720.8	3448.0	3070.5	2661.4	2234.6	1758.4	113.5
33°	4155.2	4114.6	3995.3	3820.7	3579.1	3287.5	2911.8	2506.8	2077.0	1616.1	101.7
34°	3959.4	3908.3	3824.8	3633.7	3373.9	3082.9	2704.9	2293.4	1884.8	1456.8	90.5
35°	3733.7	3703.1	3572.0	3419.2	3158.1	2860.7	2485.0	2085.8	1660.8	1279.2	79.4
36°	3515.0	3468.0	3318.6	3157.0	2903.6	2582.0	2211.1	1836.0	1467.4	1112.9	67.6
37°	3197.5	3125.8	3019.4	2848.9	2552.6	2278.7	1940.0	1592.0	1229.3	933.0	54.7
38°	2824.2	2790.7	2643.2	2471.5	2226.3	1966.5	1631.4	1336.3	1014.1	779.0	41.7
39°	2383.9	2383.3	2242.2	2118.2	1878.3	1644.3	1342.2	1084.7	837.2	627.3	32.3
40°	2010.6	1941.2	1854.2	1698.4	1514.4	1315.7	1051.1	848.9	649.6	505.6	25.3
42.5°	1054.1	1048.2	997.1	880.1	777.2	660.2	525.0	437.4	342.2	278.7	15.9
45°	452.7	455.6	420.3	402.7	362.7	313.9	265.1	221.0	189.3	153.4	9.4
47.5°	114.6	109.9	108.8	112.9	112.9	109.3	98.2	92.3	85.2	78.2	5.3
50°	49.4	48.2	47.0	47.0	44.1	42.3	39.4	35.9	32.9	29.4	2.4
52.5°	18.2	18.8	19.4	18.8	18.8	18.2	18.2	17.6	15.9	14.1	1.2
55°	5.9	5.9	5.9	6.5	6.5	7.1	7.1	7.1	7.1	6.5	0.0
57.5°	1.2	1.2	1.8	1.8	1.8	1.8	1.8	1.8	2.4	2.4	0.0
60°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0
62.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
65°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
67.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
72.5°	0.6	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.0	0.6	0.0	0.6	0.6	0.0	0.6	0.6	0.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6



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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	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
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°	22.3	22.3	22.3	22.3	22.3	22.3
2.5°	25.9	22.9	19.4	16.5	15.9	15.3
5°	28.8	21.2	15.9	12.9	11.8	11.2
7.5°	31.2	19.4	12.9	9.4	8.2	7.6
10°	32.3	17.0	10.6	7.1	5.3	5.3
12.5°	32.9	14.7	7.6	4.7	2.9	2.9
15°	32.3	12.3	5.9	2.4	0.6	0.6
17.5°	29.4	10.0	3.5	0.6	0.0	0.0
20°	25.3	8.2	2.4	0.0	0.0	0.0
21°	24.1	7.1	1.8	0.0	0.0	0.0
22°	22.3	6.5	1.2	0.0	0.0	0.0
23°	20.6	5.9	1.2	0.0	0.0	0.0
24°	18.8	5.3	0.6	0.0	0.0	0.0
25°	17.6	4.7	0.6	0.0	0.0	0.0
26°	16.5	4.1	0.6	0.0	0.0	0.0
27°	14.7	3.5	0.0	0.0	0.0	0.0
28°	13.5	2.9	0.0	0.0	0.0	0.0
29°	11.8	2.4	0.0	0.0	0.0	0.0
30°	10.0	1.8	0.0	0.0	0.0	0.0
31°	8.2	1.8	0.0	0.0	0.0	0.0
32°	7.1	1.2	0.0	0.0	0.0	0.0
33°	5.9	1.2	0.0	0.0	0.0	0.0
34°	5.3	1.2	0.0	0.0	0.0	0.0
35°	4.7	1.2	0.0	0.0	0.0	0.0
36°	3.5	0.6	0.0	0.0	0.0	0.0
37°	2.9	0.6	0.0	0.0	0.0	0.0
38°	2.4	0.6	0.0	0.0	0.0	0.0
39°	1.8	0.0	0.0	0.0	0.0	0.0
40°	1.8	0.0	0.0	0.0	0.0	0.0
42.5°	0.6	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.6	0.0	0.0	0.6	0.6
47.5°	0.0	0.6	0.0	0.0	0.6	1.2
50°	0.0	0.6	0.6	0.6	1.2	1.8
52.5°	0.0	1.2	0.6	0.6	1.8	1.8
55°	0.6	1.2	0.6	1.2	2.4	2.4
57.5°	0.6	1.2	1.2	1.8	2.4	2.9
60°	1.2	1.8	1.8	1.8	2.9	2.9
62.5°	1.2	1.8	2.4	2.4	2.9	3.5
65°	1.2	2.4	2.4	2.4	2.9	3.5
67.5°	1.8	2.4	2.4	2.4	2.9	3.5
70°	1.8	2.4	2.4	2.4	2.9	2.9
72.5°	1.8	2.4	1.8	2.4	2.4	2.9
75°	1.8	2.4	1.8	1.8	2.4	2.4
77.5°	1.2	1.8	1.8	1.2	1.8	1.8
80°	1.2	1.8	1.2	1.2	1.8	1.8



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.2	1.8	1.2	0.6	1.2	1.2
85°	1.2	1.8	1.2	0.6	0.6	0.6
87.5°	1.2	1.8	1.2	0.6	0.0	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)