

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: P1326003

Luminaire Tested: LDSQA3D09R20W2N902765DE010 3LSQCA30R 1MMS_2700K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1326003
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R20W2N902765DE010 3LSQCA30R 1MMS_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 2700K CCT AND, 90CRI ,
3LSQCA30R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

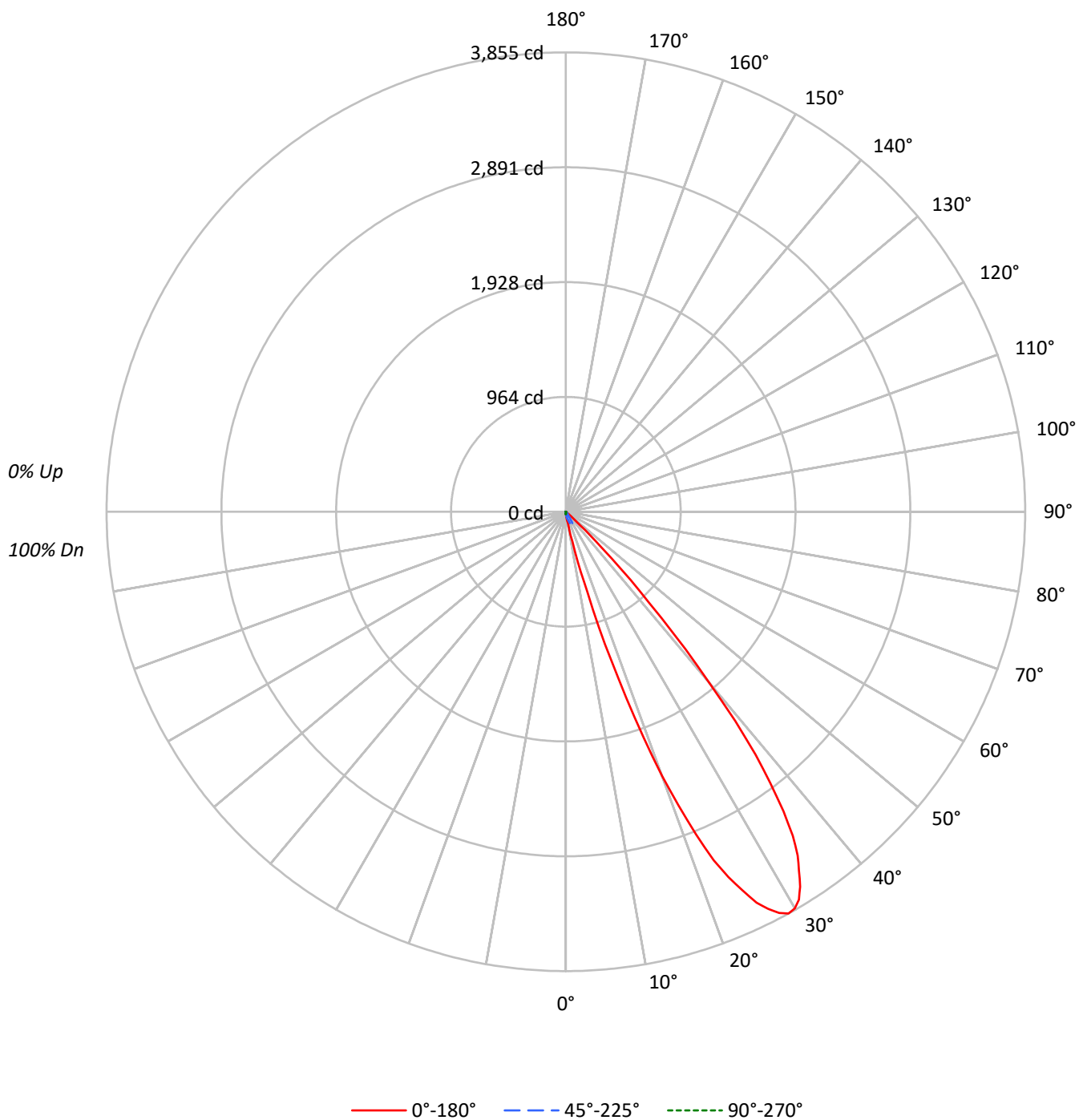
Lumens per Lamp: N/A
Luminaire Lumens: 532.0 lumens
Efficiency: N/A
Efficacy: 59.1 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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	98	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	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61		
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55		
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	50		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	45		
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3272	3272	3272	3272	3272
5°	7140	5031	3025	1366	1003
10°	17768	8884	2134	280	0
15°	124987	12178	1230	0	0
20°	431999	20454	477	0	0
25°	665891	26148	209	0	0
30°	764300	20205	0	0	0
35°	698035	7674	0	0	0
40°	418459	3575	0	0	0
45°	102831	1681	0	0	0
50°	11333	429	0	0	0
55°	1591	0	150	0	0
60°	0	0	379	0	0
65°	0	0	448	0	0
70°	0	252	806	0	0
75°	0	333	1065	0	0
80°	0	496	1587	0	0
85°	0	988	3162	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 109675 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.2	0.4
10°-20°	41.6	7.8
20°-30°	210.2	39.5
30°-40°	227.4	42.7
40°-50°	48.0	9.0
50°-60°	1.4	0.3
60°-70°	0.3	0.1
70°-80°	0.5	0.1
80°-90°	0.4	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°	253.9	47.7
0°-40°	481.3	90.5
0°-60°	530.7	99.8
0°-90°	532.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	532.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	19	19	19	19	19	
5°	41	29	18	8	6	6
15°	701	68	7	0	0	292
25°	3504	138	1	0	0	1584
35°	3320	36	0	0	0	1958
45°	422	7	0	0	0	464
55°	5	0	0	0	0	9
65°	0	0	1	0	0	0
75°	0	0	2	0	0	0
85°	0	0	2	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
2.5°	25.9	25.4	25.9	25.4	25.9	25.9	25.9	25.4	25.4	25.4	25.4
5°	41.3	41.3	40.7	41.3	41.3	41.3	41.3	40.7	40.7	40.2	40.2
7.5°	65.1	65.1	64.5	64.5	65.1	65.6	63.5	64.5	64.5	64.5	64.0
10°	101.6	103.7	101.6	104.2	102.1	100.5	103.2	100.5	100.5	100.0	98.4
12.5°	256.1	250.3	246.6	237.6	246.6	239.7	241.3	239.7	234.4	227.5	223.3
15°	701.0	701.0	680.4	707.9	687.8	695.2	657.1	657.7	638.1	616.9	605.3
17.5°	1465.6	1478.8	1465.1	1456.6	1438.6	1412.7	1402.1	1375.1	1339.7	1298.4	1293.6
20°	2357.1	2301.6	2327.5	2303.7	2288.9	2257.1	2221.7	2199.4	2168.2	2115.8	2038.6
21°	2637.5	2635.4	2634.9	2634.4	2612.7	2560.8	2528.5	2484.1	2440.2	2386.2	2321.7
22°	2920.1	2930.1	2934.3	2903.7	2859.2	2835.9	2813.7	2752.9	2683.6	2655.5	2578.8
23°	3179.3	3169.8	3142.3	3128.0	3093.6	3086.7	3020.6	2982.0	2914.2	2883.6	2792.6
24°	3356.0	3351.3	3338.6	3317.4	3289.9	3247.6	3207.9	3147.0	3091.5	3041.2	2956.6
25°	3504.2	3508.4	3485.1	3470.8	3441.2	3393.6	3344.9	3278.3	3226.4	3167.7	3069.8
26°	3650.7	3621.1	3602.6	3581.4	3549.2	3494.7	3447.6	3387.8	3324.8	3259.2	3163.4
27°	3741.2	3714.8	3686.7	3666.1	3629.0	3577.2	3526.9	3460.8	3390.4	3324.3	3225.9
28°	3812.6	3783.5	3756.0	3731.2	3688.8	3633.3	3573.0	3505.8	3432.8	3364.5	3264.0
29°	3855.0	3820.6	3790.9	3762.9	3724.3	3664.0	3603.1	3531.2	3460.8	3389.4	3286.7
30°	3843.3	3813.7	3785.1	3756.6	3717.4	3660.8	3600.5	3531.7	3460.8	3390.4	3286.2
31°	3797.8	3761.3	3740.7	3712.1	3678.3	3620.6	3568.7	3493.6	3429.6	3353.4	3249.2
32°	3710.5	3687.2	3659.7	3637.5	3604.7	3543.3	3492.5	3431.2	3355.5	3293.1	3183.6
33°	3592.0	3570.3	3556.6	3530.6	3498.9	3456.6	3395.7	3339.6	3254.4	3190.4	3080.9
34°	3478.8	3451.3	3416.9	3409.5	3382.0	3327.5	3272.4	3215.3	3139.1	3057.6	2947.0
35°	3320.1	3291.5	3259.7	3262.4	3229.6	3166.1	3110.0	3046.0	2973.5	2877.7	2773.0
36°	3107.9	3088.8	3084.1	3071.4	3033.8	2958.2	2904.7	2824.3	2763.5	2646.5	2556.6
37°	2849.2	2856.0	2821.7	2805.2	2761.3	2708.4	2678.3	2575.1	2504.2	2416.4	2294.7
38°	2587.8	2577.7	2537.0	2547.1	2486.7	2431.7	2346.5	2285.2	2205.8	2124.3	2027.0
39°	2261.3	2236.5	2187.8	2189.9	2144.4	2082.5	2000.0	1927.5	1879.9	1801.6	1708.4
40°	1861.3	1850.8	1833.8	1805.8	1746.0	1719.0	1645.5	1567.2	1527.0	1418.5	1373.0
42.5°	1032.8	1018.5	989.9	979.9	948.1	916.4	873.5	821.2	795.8	763.5	691.5
45°	422.2	450.3	443.4	435.4	411.1	412.7	382.0	385.7	357.7	338.6	325.4
47.5°	93.1	101.1	101.6	97.9	101.6	98.4	96.8	94.2	94.7	96.3	92.6
50°	42.3	41.8	42.9	42.3	41.8	41.3	40.7	39.2	40.2	39.2	38.1
52.5°	16.4	16.9	16.9	15.9	16.4	16.4	16.4	15.9	15.9	15.9	15.9
55°	5.3	5.3	5.3	4.8	4.8	5.3	5.3	5.3	5.3	5.3	4.8
57.5°	0.5	1.1	0.5	1.1	0.5	0.5	0.5	0.5	0.5	1.1	1.1
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
2.5°	24.3	22.2	20.6	19.0	15.9	13.2	12.2	12.2
5°	37.6	29.1	21.7	17.5	12.2	7.9	6.3	5.8
7.5°	56.6	39.2	22.8	14.8	7.9	4.2	2.6	2.1
10°	82.0	50.8	23.8	12.2	4.8	1.6	0.0	0.0
12.5°	143.4	60.8	23.8	9.5	2.1	0.0	0.0	0.0
15°	328.6	68.3	22.8	6.9	0.5	0.0	0.0	0.0
17.5°	682.5	85.7	20.1	4.8	0.0	0.0	0.0	0.0
20°	1089.9	111.6	15.9	2.6	0.0	0.0	0.0	0.0
21°	1257.7	120.6	14.3	2.1	0.0	0.0	0.0	0.0
22°	1378.3	129.1	12.7	1.6	0.0	0.0	0.0	0.0
23°	1511.1	134.4	11.1	1.1	0.0	0.0	0.0	0.0
24°	1609.0	137.6	9.5	1.1	0.0	0.0	0.0	0.0
25°	1669.8	137.6	8.5	1.1	0.0	0.0	0.0	0.0
26°	1705.8	134.4	7.4	0.5	0.0	0.0	0.0	0.0
27°	1714.3	129.1	6.3	0.5	0.0	0.0	0.0	0.0
28°	1703.7	122.2	5.3	0.0	0.0	0.0	0.0	0.0
29°	1670.3	112.2	4.8	0.0	0.0	0.0	0.0	0.0
30°	1634.4	101.6	3.7	0.0	0.0	0.0	0.0	0.0
31°	1573.0	87.3	3.2	0.0	0.0	0.0	0.0	0.0
32°	1502.1	72.5	2.6	0.0	0.0	0.0	0.0	0.0
33°	1407.4	57.1	2.1	0.0	0.0	0.0	0.0	0.0
34°	1267.7	45.0	2.1	0.0	0.0	0.0	0.0	0.0
35°	1142.3	36.5	1.6	0.0	0.0	0.0	0.0	0.0
36°	978.3	29.1	1.6	0.0	0.0	0.0	0.0	0.0
37°	838.1	24.3	1.6	0.0	0.0	0.0	0.0	0.0
38°	701.6	20.6	1.1	0.0	0.0	0.0	0.0	0.0
39°	569.3	18.0	1.1	0.0	0.0	0.0	0.0	0.0
40°	454.0	15.9	1.1	0.0	0.0	0.0	0.0	0.0
42.5°	245.0	10.6	0.0	0.0	0.0	0.0	0.0	0.0
45°	135.4	6.9	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	59.8	3.7	0.0	0.0	0.0	0.0	0.0	0.0
50°	20.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4.8	0.0	0.0	0.5	0.0	0.0	0.0	0.0
57.5°	1.1	0.0	0.0	0.5	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.5	1.1	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.5	1.1	0.5	0.0	0.0	0.0
65°	0.0	0.0	1.1	1.1	0.5	0.0	0.0	0.0
67.5°	0.0	0.5	1.1	1.6	0.5	0.0	0.0	0.0
70°	0.0	0.5	1.1	1.6	0.5	0.0	0.0	0.0
72.5°	0.0	0.5	1.1	1.6	0.5	0.0	0.0	0.0
75°	0.0	0.5	1.1	1.6	0.5	0.0	0.0	0.0
77.5°	0.0	0.5	1.1	1.6	0.5	0.0	0.0	0.0
80°	0.0	0.5	1.1	1.6	0.5	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.5	1.1	1.6	0.5	0.0	0.0	0.0
85°	0.0	0.5	1.1	1.6	0.5	0.0	0.0	0.0
87.5°	0.0	0.5	1.1	1.6	0.5	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)