

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: P1326004

Luminaire Tested: LDSQA3D09R20W2N902765DE010 3LSQCA30R 1MMS_3000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1326004
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_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 3000K CCT AND, 90CRI ,
3LSQCA30R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

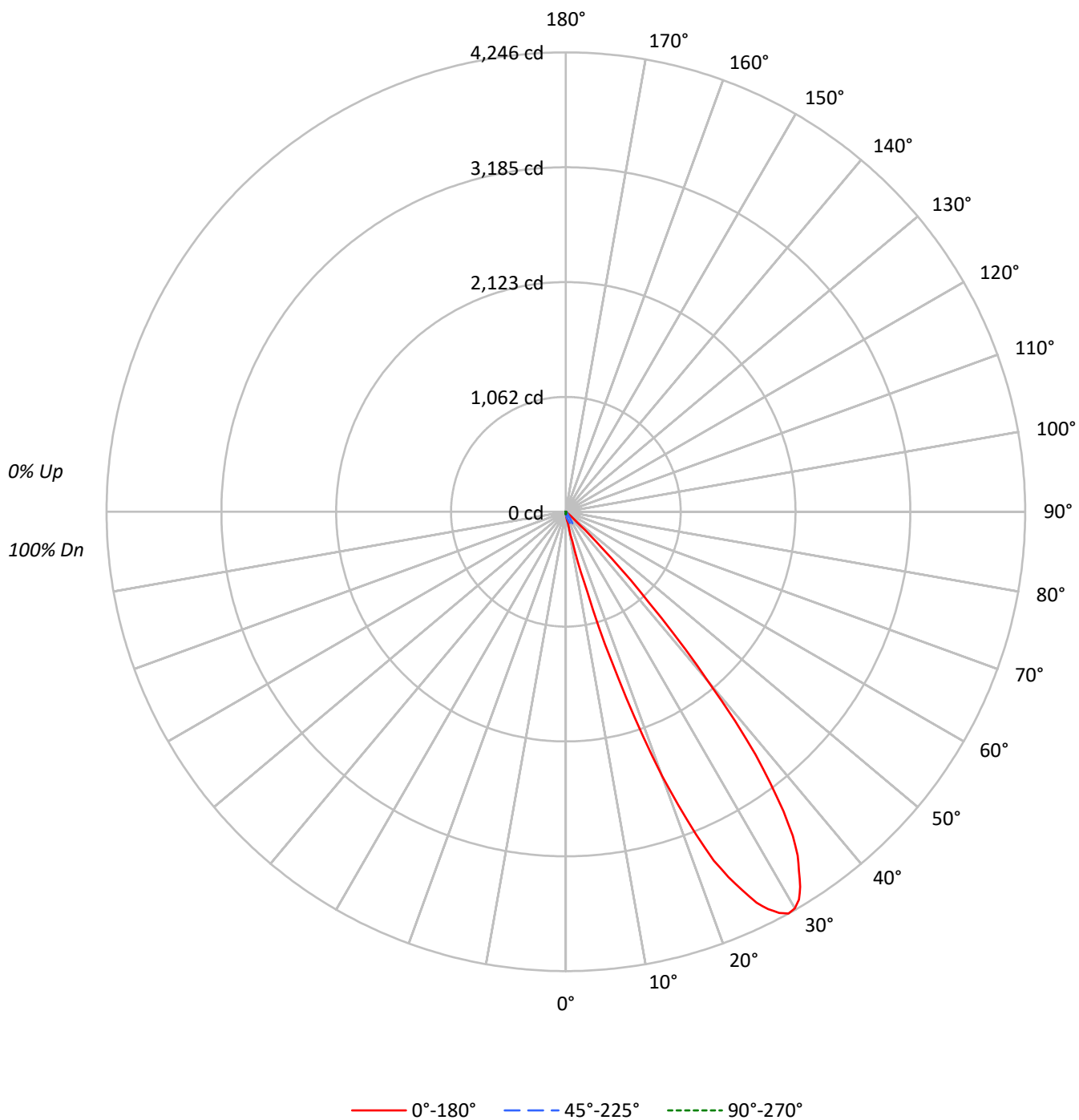
Lumens per Lamp: N/A
Luminaire Lumens: 586.0 lumens
Efficiency: N/A
Efficacy: 65.1 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1326004

CATALOG NUMBER: LDSQA3D09R20W2N902765DE010 3LSQCA30R 1MMS_3000K

Luminous Intensity Polar Plot



TEST NUMBER: P1326004

CATALOG NUMBER: LDSQA3D09R20W2N902765DE010 3LSQCA30R 1MMS_3000K

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	49		
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°	3617	3617	3617	3617	3617
5°	7866	5549	3319	1504	1106
10°	19569	9776	2343	297	0
15°	137682	13408	1355	0	0
20°	475857	22543	531	0	0
25°	733484	28789	228	0	0
30°	841878	22253	0	0	0
35°	768887	8452	0	0	0
40°	460950	3934	0	0	0
45°	113280	1851	0	0	0
50°	12486	455	0	0	0
55°	1742	0	180	0	0
60°	0	0	413	0	0
65°	0	0	489	0	0
70°	0	302	856	0	0
75°	0	399	1131	0	0
80°	0	595	1686	0	0
85°	0	1186	3359	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 120806 cd/sqm

TEST NUMBER: P1326004

CATALOG NUMBER: LDSQA3D09R20W2N902765DE010 3LSQCA30R 1MMS_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.4	0.4
10°-20°	45.8	7.8
20°-30°	231.5	39.5
30°-40°	250.5	42.7
40°-50°	52.9	9.0
50°-60°	1.6	0.3
60°-70°	0.4	0.1
70°-80°	0.5	0.1
80°-90°	0.5	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°	279.6	47.7
0°-40°	530.1	90.5
0°-60°	584.6	99.8
0°-90°	586.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	586.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	21	21	21	21	21	
5°	46	32	19	9	6	6
15°	772	75	8	0	0	322
25°	3860	152	1	0	0	1745
35°	3657	40	0	0	0	2156
45°	465	8	0	0	0	512
55°	6	0	1	0	0	10
65°	0	0	1	0	0	0
75°	0	1	2	0	0	0
85°	0	1	2	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1326004

CATALOG NUMBER: LDSQA3D09R20W2N902765DE010 3LSQCA30R 1MMS_3000K

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
2.5°	28.6	28.0	28.6	28.0	28.6	28.6	28.6	28.0	28.0	28.0	28.0
5°	45.5	45.5	44.9	45.5	45.5	45.5	45.5	44.9	44.9	44.3	44.3
7.5°	71.7	71.7	71.1	71.1	71.7	72.3	69.9	71.1	71.1	71.1	70.5
10°	111.9	114.2	111.9	114.8	112.5	110.7	113.6	110.7	110.7	110.1	108.4
12.5°	282.1	275.7	271.6	261.7	271.6	264.0	265.8	264.0	258.2	250.6	245.9
15°	772.2	772.2	749.5	779.8	757.6	765.8	723.8	724.4	702.9	679.5	666.7
17.5°	1614.3	1628.9	1613.8	1604.4	1584.6	1556.1	1544.4	1514.7	1475.6	1430.2	1424.9
20°	2596.4	2535.2	2563.7	2537.5	2521.2	2486.2	2447.2	2422.7	2388.3	2330.6	2245.5
21°	2905.2	2902.9	2902.3	2901.7	2877.9	2820.7	2785.2	2736.2	2687.9	2628.4	2557.3
22°	3216.5	3227.5	3232.2	3198.4	3149.4	3123.8	3099.3	3032.3	2955.9	2925.1	2840.6
23°	3502.0	3491.5	3461.2	3445.5	3407.6	3400.0	3327.2	3284.6	3210.0	3176.2	3076.0
24°	3696.7	3691.4	3677.5	3654.1	3623.8	3577.2	3533.5	3466.5	3405.3	3349.9	3256.7
25°	3859.9	3864.5	3838.9	3823.2	3790.5	3738.1	3684.4	3611.0	3553.9	3489.2	3381.4
26°	4021.3	3988.7	3968.3	3945.0	3909.4	3849.4	3797.5	3731.7	3662.3	3590.0	3484.5
27°	4121.0	4091.8	4060.9	4038.2	3997.4	3940.3	3884.9	3812.1	3734.6	3661.7	3553.3
28°	4199.6	4167.6	4137.3	4109.9	4063.3	4002.1	3935.6	3861.6	3781.2	3706.0	3595.3
29°	4246.3	4208.4	4175.7	4144.9	4102.3	4035.9	3968.9	3889.6	3812.1	3733.4	3620.3
30°	4233.4	4200.8	4169.3	4137.9	4094.7	4032.4	3965.9	3890.2	3812.1	3734.6	3619.8
31°	4183.3	4143.1	4120.4	4088.9	4051.6	3988.1	3931.0	3848.2	3777.7	3693.8	3579.0
32°	4087.2	4061.5	4031.2	4006.7	3970.6	3903.0	3847.0	3779.4	3696.1	3627.3	3506.7
33°	3956.6	3932.7	3917.6	3889.0	3854.0	3807.4	3740.4	3678.6	3584.8	3514.3	3393.6
34°	3831.9	3801.6	3763.7	3755.5	3725.2	3665.2	3604.6	3541.7	3457.7	3368.0	3246.2
35°	3657.1	3625.6	3590.6	3593.5	3557.4	3487.5	3425.7	3355.2	3275.3	3169.8	3054.4
36°	3423.4	3402.4	3397.1	3383.1	3341.8	3258.4	3199.6	3111.0	3044.0	2915.2	2816.1
37°	3138.4	3145.9	3108.1	3090.0	3041.6	2983.3	2950.1	2836.5	2758.4	2661.6	2527.6
38°	2850.5	2839.4	2794.5	2805.6	2739.1	2678.5	2584.7	2517.1	2429.7	2339.9	2232.7
39°	2490.9	2463.5	2409.9	2412.2	2362.1	2293.9	2203.0	2123.1	2070.7	1984.4	1881.9
40°	2050.3	2038.6	2020.0	1989.1	1923.2	1893.5	1812.5	1726.2	1682.0	1562.5	1512.4
42.5°	1137.6	1121.9	1090.4	1079.3	1044.4	1009.4	962.2	904.5	876.5	841.0	761.7
45°	465.1	496.0	488.4	479.6	452.8	454.6	420.8	424.9	394.0	373.0	358.4
47.5°	102.6	111.3	111.9	107.8	111.9	108.4	106.7	103.7	104.3	106.1	102.0
50°	46.6	46.0	47.2	46.6	46.0	45.5	44.9	43.1	44.3	43.1	42.0
52.5°	18.1	18.6	18.6	17.5	18.1	18.1	18.1	17.5	17.5	17.5	17.5
55°	5.8	5.8	5.8	5.2	5.2	5.8	5.8	5.8	5.8	5.8	5.2
57.5°	0.6	1.2	0.6	1.2	0.6	0.6	0.6	0.6	0.6	1.2	1.2
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



TEST NUMBER: P1326004

CATALOG NUMBER: LDSQA3D09R20W2N902765DE010 3LSQCA30R 1MMS_3000K

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

TEST NUMBER: P1326004

CATALOG NUMBER: LDSQA3D09R20W2N902765DE010 3LSQCA30R 1MMS_3000K

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
2.5°	26.8	24.5	22.7	21.0	17.5	14.6	13.4	13.4
5°	41.4	32.1	23.9	19.2	13.4	8.7	7.0	6.4
7.5°	62.4	43.1	25.1	16.3	8.7	4.7	2.9	2.3
10°	90.3	55.9	26.2	13.4	5.2	1.7	0.0	0.0
12.5°	157.9	67.0	26.2	10.5	2.3	0.0	0.0	0.0
15°	361.9	75.2	25.1	7.6	0.6	0.0	0.0	0.0
17.5°	751.8	94.4	22.1	5.2	0.0	0.0	0.0	0.0
20°	1200.6	123.0	17.5	2.9	0.0	0.0	0.0	0.0
21°	1385.3	132.9	15.7	2.3	0.0	0.0	0.0	0.0
22°	1518.2	142.2	14.0	1.7	0.0	0.0	0.0	0.0
23°	1664.5	148.0	12.2	1.2	0.0	0.0	0.0	0.0
24°	1772.3	151.5	10.5	1.2	0.0	0.0	0.0	0.0
25°	1839.3	151.5	9.3	1.2	0.0	0.0	0.0	0.0
26°	1878.9	148.0	8.2	0.6	0.0	0.0	0.0	0.0
27°	1888.3	142.2	7.0	0.6	0.0	0.0	0.0	0.0
28°	1876.6	134.6	5.8	0.0	0.0	0.0	0.0	0.0
29°	1839.9	123.6	5.2	0.0	0.0	0.0	0.0	0.0
30°	1800.3	111.9	4.1	0.0	0.0	0.0	0.0	0.0
31°	1732.7	96.2	3.5	0.0	0.0	0.0	0.0	0.0
32°	1654.6	79.8	2.9	0.0	0.0	0.0	0.0	0.0
33°	1550.2	62.9	2.3	0.0	0.0	0.0	0.0	0.0
34°	1396.4	49.5	2.3	0.0	0.0	0.0	0.0	0.0
35°	1258.3	40.2	1.7	0.0	0.0	0.0	0.0	0.0
36°	1077.6	32.1	1.7	0.0	0.0	0.0	0.0	0.0
37°	923.2	26.8	1.7	0.0	0.0	0.0	0.0	0.0
38°	772.8	22.7	1.2	0.0	0.0	0.0	0.0	0.0
39°	627.1	19.8	1.2	0.0	0.0	0.0	0.0	0.0
40°	500.0	17.5	1.2	0.0	0.0	0.0	0.0	0.0
42.5°	269.8	11.7	0.0	0.0	0.0	0.0	0.0	0.0
45°	149.2	7.6	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	65.9	4.1	0.0	0.0	0.0	0.0	0.0	0.0
50°	22.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5.2	0.0	0.0	0.6	0.0	0.0	0.0	0.0
57.5°	1.2	0.0	0.0	0.6	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.6	1.2	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.6	1.2	0.6	0.0	0.0	0.0
65°	0.0	0.0	1.2	1.2	0.6	0.0	0.0	0.0
67.5°	0.0	0.6	1.2	1.7	0.6	0.0	0.0	0.0
70°	0.0	0.6	1.2	1.7	0.6	0.0	0.0	0.0
72.5°	0.0	0.6	1.2	1.7	0.6	0.0	0.0	0.0
75°	0.0	0.6	1.2	1.7	0.6	0.0	0.0	0.0
77.5°	0.0	0.6	1.2	1.7	0.6	0.0	0.0	0.0
80°	0.0	0.6	1.2	1.7	0.6	0.0	0.0	0.0



TEST NUMBER: P1326004

CATALOG NUMBER: LDSQA3D09R20W2N902765DE010 3LSQCA30R 1MMS_3000K

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.6	1.2	1.7	0.6	0.0	0.0	0.0
85°	0.0	0.6	1.2	1.7	0.6	0.0	0.0	0.0
87.5°	0.0	0.6	1.2	1.7	0.6	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)