

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: P1324324

Luminaire Tested: LDSQA3D05R20W2N902750DE010 3LSQCA30R 1MMS_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1324324
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: LDSQA3D05R20W2N902750DE010 3LSQCA30R 1MMS_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 4000K CCT AND, 90CRI ,
3LSQCA30R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

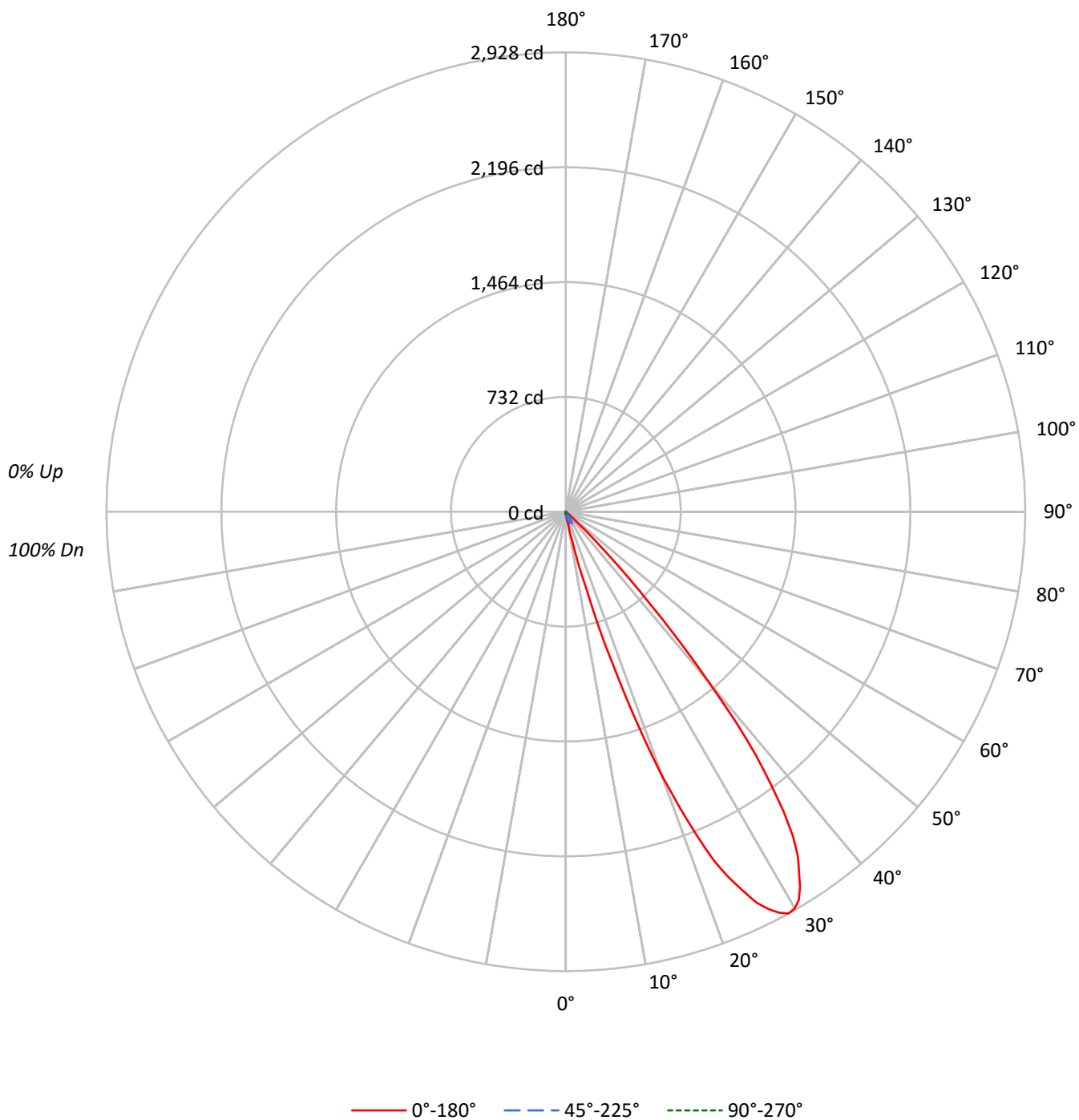
Lumens per Lamp: N/A
Luminaire Lumens: 404.0 lumens
Efficiency: N/A
Efficacy: 68.5 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 5.9
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: P1324324

CATALOG NUMBER: LDSQA3D05R20W2N902750DE010 3LSQCA30R 1MMS_4000K

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°	2497	2497	2497	2497	2497
5°	5411	3821	2299	1037	761
10°	13483	6750	1609	210	0
15°	94926	9236	927	0	0
20°	328063	15542	367	0	0
25°	505680	19858	152	0	0
30°	580409	15333	0	0	0
35°	530070	5824	0	0	0
40°	317784	2720	0	0	0
45°	78085	1267	0	0	0
50°	8601	322	0	0	0
55°	1201	0	120	0	0
60°	0	0	276	0	0
65°	0	0	326	0	0
70°	0	201	604	0	0
75°	0	266	799	0	0
80°	0	397	1190	0	0
85°	0	790	2371	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 83273 cd/sqm

TEST NUMBER: P1324324

CATALOG NUMBER: LDSQA3D05R20W2N902750DE010 3LSQCA30R 1MMS_4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.6	0.4
10°-20°	31.6	7.8
20°-30°	159.6	39.5
30°-40°	172.7	42.7
40°-50°	36.5	9.0
50°-60°	1.1	0.3
60°-70°	0.3	0.1
70°-80°	0.4	0.1
80°-90°	0.3	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°	192.8	47.7
0°-40°	365.5	90.5
0°-60°	403.0	99.8
0°-90°	404.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	404.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	31	22	13	6	4	4
15°	532	52	5	0	0	222
25°	2661	104	1	0	0	1203
35°	2521	28	0	0	0	1487
45°	321	5	0	0	0	353
55°	4	0	0	0	0	7
65°	0	0	1	0	0	0
75°	0	0	1	0	0	0
85°	0	0	1	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°	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
2.5°	19.7	19.3	19.7	19.3	19.7	19.7	19.7	19.3	19.3	19.3	19.3
5°	31.3	31.3	30.9	31.3	31.3	31.3	31.3	30.9	30.9	30.5	30.5
7.5°	49.4	49.4	49.0	49.0	49.4	49.8	48.2	49.0	49.0	49.0	48.6
10°	77.1	78.8	77.1	79.2	77.5	76.3	78.3	76.3	76.3	75.9	74.7
12.5°	194.5	190.0	187.2	180.4	187.2	182.0	183.2	182.0	178.0	172.8	169.6
15°	532.4	532.4	516.7	537.6	522.3	528.0	499.0	499.4	484.6	468.5	459.7
17.5°	1113.0	1123.0	1112.6	1106.1	1092.5	1072.8	1064.7	1044.3	1017.3	986.0	982.4
20°	1790.0	1747.8	1767.5	1749.4	1738.2	1714.0	1687.1	1670.3	1646.5	1606.8	1548.1
21°	2002.9	2001.3	2000.9	2000.5	1984.0	1944.7	1920.2	1886.4	1853.1	1812.1	1763.1
22°	2217.5	2225.1	2228.3	2205.0	2171.3	2153.6	2136.7	2090.5	2037.9	2016.6	1958.3
23°	2414.4	2407.1	2386.2	2375.4	2349.3	2344.1	2293.8	2264.5	2213.1	2189.8	2120.7
24°	2548.6	2545.0	2535.3	2519.2	2498.3	2466.2	2436.1	2389.9	2347.7	2309.5	2245.2
25°	2661.1	2664.3	2646.6	2635.8	2613.3	2577.1	2540.1	2489.5	2450.1	2405.5	2331.2
26°	2772.4	2749.9	2735.8	2719.7	2695.2	2653.8	2618.1	2572.7	2524.9	2475.0	2402.3
27°	2841.1	2821.0	2799.7	2784.0	2755.9	2716.5	2678.3	2628.1	2574.7	2524.5	2449.7
28°	2895.3	2873.2	2852.3	2833.4	2801.3	2759.1	2713.3	2662.3	2606.8	2555.0	2478.7
29°	2927.5	2901.3	2878.8	2857.5	2828.2	2782.4	2736.2	2681.6	2628.1	2573.9	2495.9
30°	2918.6	2896.1	2874.4	2852.7	2823.0	2780.0	2734.2	2682.0	2628.1	2574.7	2495.5
31°	2884.1	2856.3	2840.7	2819.0	2793.3	2749.5	2710.1	2653.0	2604.4	2546.6	2467.4
32°	2817.8	2800.1	2779.2	2762.3	2737.4	2690.8	2652.2	2605.6	2548.2	2500.8	2417.6
33°	2727.8	2711.3	2700.8	2681.2	2657.1	2624.9	2578.7	2536.1	2471.4	2422.8	2339.6
34°	2641.8	2620.9	2594.8	2589.1	2568.3	2526.9	2485.1	2441.7	2383.8	2322.0	2238.0
35°	2521.2	2499.5	2475.4	2477.5	2452.5	2404.3	2361.7	2313.1	2258.1	2185.3	2105.8
36°	2360.1	2345.7	2342.0	2332.4	2303.9	2246.4	2205.8	2144.8	2098.6	2009.8	1941.5
37°	2163.7	2168.9	2142.8	2130.3	2097.0	2056.8	2033.9	1955.5	1901.7	1835.0	1742.6
38°	1965.2	1957.5	1926.6	1934.2	1888.4	1846.6	1781.9	1735.3	1675.1	1613.2	1539.3
39°	1717.3	1698.4	1661.4	1663.0	1628.5	1581.5	1518.8	1463.7	1427.6	1368.1	1297.4
40°	1413.5	1405.5	1392.6	1371.3	1325.9	1305.4	1249.6	1190.1	1159.6	1077.2	1042.7
42.5°	784.3	773.4	751.8	744.1	720.0	695.9	663.4	623.6	604.3	579.8	525.1
45°	320.6	341.9	336.7	330.7	312.2	313.4	290.1	292.9	271.6	257.1	247.1
47.5°	70.7	76.7	77.1	74.3	77.1	74.7	73.5	71.5	71.9	73.1	70.3
50°	32.1	31.7	32.5	32.1	31.7	31.3	30.9	29.7	30.5	29.7	28.9
52.5°	12.5	12.9	12.9	12.1	12.5	12.5	12.5	12.1	12.1	12.1	12.1
55°	4.0	4.0	4.0	3.6	3.6	4.0	4.0	4.0	4.0	4.0	3.6
57.5°	0.4	0.8	0.4	0.8	0.4	0.4	0.4	0.4	0.4	0.8	0.8
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°	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
2.5°	18.5	16.9	15.7	14.5	12.1	10.0	9.2	9.2
5°	28.5	22.1	16.5	13.3	9.2	6.0	4.8	4.4
7.5°	43.0	29.7	17.3	11.3	6.0	3.2	2.0	1.6
10°	62.3	38.6	18.1	9.2	3.6	1.2	0.0	0.0
12.5°	108.9	46.2	18.1	7.2	1.6	0.0	0.0	0.0
15°	249.5	51.8	17.3	5.2	0.4	0.0	0.0	0.0
17.5°	518.3	65.1	15.3	3.6	0.0	0.0	0.0	0.0
20°	827.7	84.8	12.1	2.0	0.0	0.0	0.0	0.0
21°	955.1	91.6	10.8	1.6	0.0	0.0	0.0	0.0
22°	1046.7	98.0	9.6	1.2	0.0	0.0	0.0	0.0
23°	1147.5	102.1	8.4	0.8	0.0	0.0	0.0	0.0
24°	1221.9	104.5	7.2	0.8	0.0	0.0	0.0	0.0
25°	1268.1	104.5	6.4	0.8	0.0	0.0	0.0	0.0
26°	1295.4	102.1	5.6	0.4	0.0	0.0	0.0	0.0
27°	1301.8	98.0	4.8	0.4	0.0	0.0	0.0	0.0
28°	1293.8	92.8	4.0	0.0	0.0	0.0	0.0	0.0
29°	1268.5	85.2	3.6	0.0	0.0	0.0	0.0	0.0
30°	1241.1	77.1	2.8	0.0	0.0	0.0	0.0	0.0
31°	1194.5	66.3	2.4	0.0	0.0	0.0	0.0	0.0
32°	1140.7	55.0	2.0	0.0	0.0	0.0	0.0	0.0
33°	1068.8	43.4	1.6	0.0	0.0	0.0	0.0	0.0
34°	962.7	34.2	1.6	0.0	0.0	0.0	0.0	0.0
35°	867.5	27.7	1.2	0.0	0.0	0.0	0.0	0.0
36°	742.9	22.1	1.2	0.0	0.0	0.0	0.0	0.0
37°	636.4	18.5	1.2	0.0	0.0	0.0	0.0	0.0
38°	532.8	15.7	0.8	0.0	0.0	0.0	0.0	0.0
39°	432.3	13.7	0.8	0.0	0.0	0.0	0.0	0.0
40°	344.7	12.1	0.8	0.0	0.0	0.0	0.0	0.0
42.5°	186.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	102.9	5.2	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	45.4	2.8	0.0	0.0	0.0	0.0	0.0	0.0
50°	15.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3.6	0.0	0.0	0.4	0.0	0.0	0.0	0.0
57.5°	0.8	0.0	0.0	0.4	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.4	0.8	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.4	0.8	0.4	0.0	0.0	0.0
65°	0.0	0.0	0.8	0.8	0.4	0.0	0.0	0.0
67.5°	0.0	0.4	0.8	1.2	0.4	0.0	0.0	0.0
70°	0.0	0.4	0.8	1.2	0.4	0.0	0.0	0.0
72.5°	0.0	0.4	0.8	1.2	0.4	0.0	0.0	0.0
75°	0.0	0.4	0.8	1.2	0.4	0.0	0.0	0.0
77.5°	0.0	0.4	0.8	1.2	0.4	0.0	0.0	0.0
80°	0.0	0.4	0.8	1.2	0.4	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	0.4	0.8	1.2	0.4	0.0	0.0	0.0
85°	0.0	0.4	0.8	1.2	0.4	0.0	0.0	0.0
87.5°	0.0	0.4	0.8	1.2	0.4	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)