

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: P1324321

Luminaire Tested: LDSQA3D05R20W2N902750DE010 3LSQCA30R 1MMS_2700K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1324321
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_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 2700K CCT AND, 90CRI ,
3LSQCA30R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

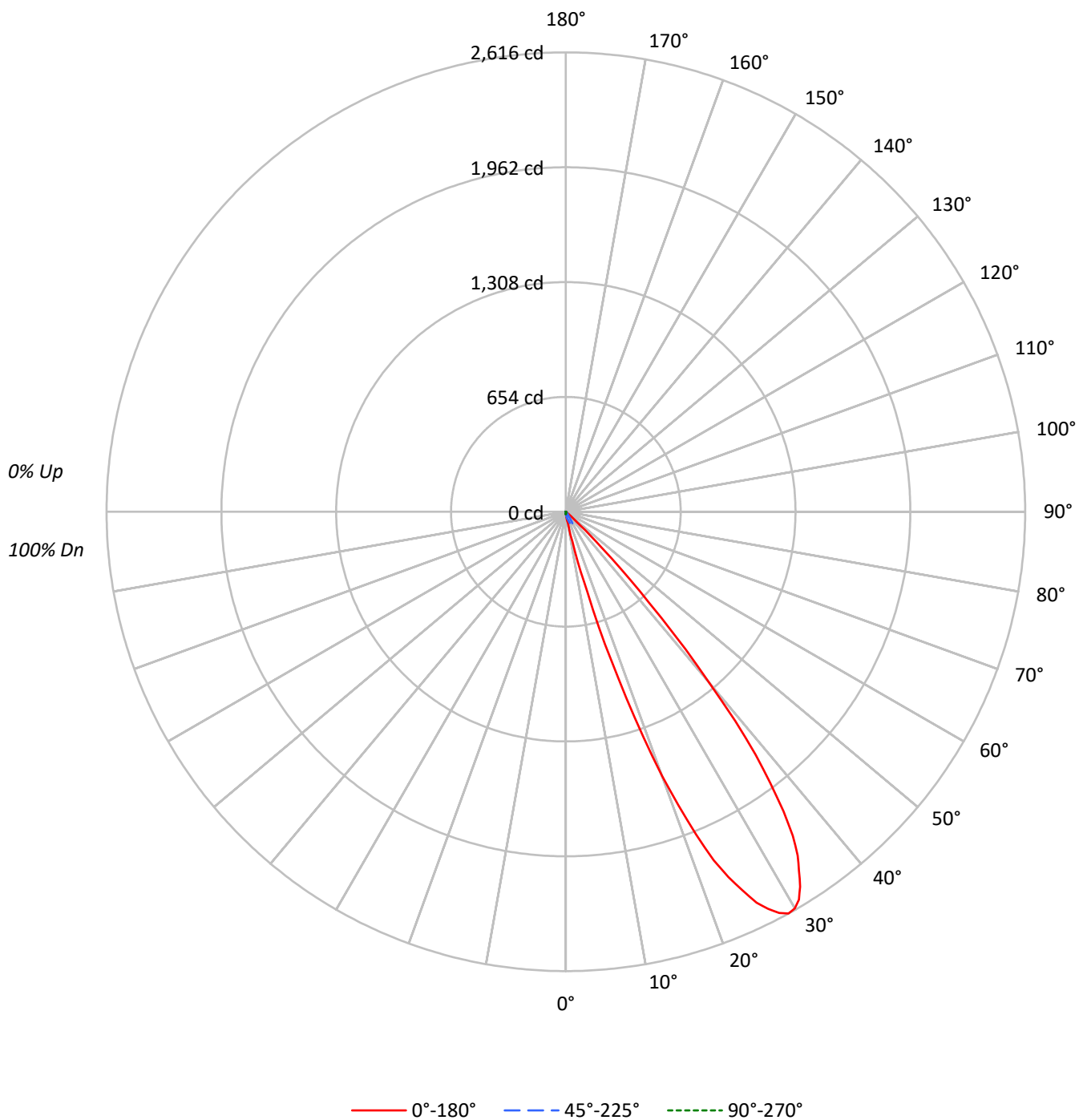
Lumens per Lamp: N/A
Luminaire Lumens: 361.0 lumens
Efficiency: N/A
Efficacy: 61.2 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

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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	79	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°	2222	2222	2222	2222	2222
5°	4841	3406	2040	934	674
10°	12049	6033	1451	192	0
15°	84816	8255	838	0	0
20°	293149	13892	330	0	0
25°	451845	17729	133	0	0
30°	518641	13702	0	0	0
35°	473661	5214	0	0	0
40°	283971	2428	0	0	0
45°	69780	1145	0	0	0
50°	7690	295	0	0	0
55°	1081	0	120	0	0
60°	0	0	241	0	0
65°	0	0	285	0	0
70°	0	201	554	0	0
75°	0	266	732	0	0
80°	0	397	1091	0	0
85°	0	790	2174	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 74407 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.5	0.4
10°-20°	28.2	7.8
20°-30°	142.6	39.5
30°-40°	154.3	42.7
40°-50°	32.6	9.0
50°-60°	1.0	0.3
60°-70°	0.2	0.1
70°-80°	0.3	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°	172.3	47.7
0°-40°	326.6	90.5
0°-60°	360.1	99.8
0°-90°	361.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	361.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13	13	13	13	13	
5°	28	20	12	5	4	4
15°	476	46	5	0	0	198
25°	2378	93	1	0	0	1075
35°	2253	25	0	0	0	1328
45°	286	5	0	0	0	315
55°	4	0	0	0	0	6
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°	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9
2.5°	17.6	17.2	17.6	17.2	17.6	17.6	17.6	17.2	17.2	17.2	17.2
5°	28.0	28.0	27.6	28.0	28.0	28.0	28.0	27.6	27.6	27.3	27.3
7.5°	44.2	44.2	43.8	43.8	44.2	44.5	43.1	43.8	43.8	43.8	43.4
10°	68.9	70.4	68.9	70.7	69.3	68.2	70.0	68.2	68.2	67.9	66.8
12.5°	173.8	169.8	167.3	161.2	167.3	162.6	163.7	162.6	159.0	154.4	151.5
15°	475.7	475.7	461.7	480.4	466.7	471.8	445.9	446.3	433.0	418.6	410.7
17.5°	994.5	1003.5	994.1	988.4	976.2	958.6	951.4	933.1	909.1	881.1	877.8
20°	1599.5	1561.8	1579.4	1563.2	1553.2	1531.6	1507.6	1492.5	1471.3	1435.7	1383.3
21°	1789.8	1788.3	1788.0	1787.6	1772.9	1737.7	1715.8	1685.6	1655.8	1619.2	1575.4
22°	1981.5	1988.3	1991.2	1970.3	1940.2	1924.4	1909.3	1868.0	1821.0	1802.0	1749.9
23°	2157.4	2150.9	2132.3	2122.6	2099.2	2094.6	2049.7	2023.5	1977.5	1956.7	1894.9
24°	2277.3	2274.1	2265.5	2251.1	2232.4	2203.7	2176.8	2135.5	2097.8	2063.7	2006.2
25°	2377.8	2380.7	2364.9	2355.2	2335.1	2302.8	2269.8	2224.5	2189.3	2149.5	2083.1
26°	2477.3	2457.2	2444.6	2430.3	2408.4	2371.4	2339.4	2298.9	2256.1	2211.6	2146.6
27°	2538.7	2520.7	2501.7	2487.7	2462.6	2427.4	2393.3	2348.4	2300.6	2255.8	2189.0
28°	2587.1	2567.4	2548.7	2531.9	2503.1	2465.4	2424.5	2378.9	2329.4	2283.1	2214.8
29°	2615.9	2592.5	2572.4	2553.4	2527.2	2486.3	2445.0	2396.1	2348.4	2299.9	2230.3
30°	2608.0	2587.9	2568.5	2549.1	2522.5	2484.1	2443.2	2396.5	2348.4	2300.6	2229.9
31°	2577.1	2552.3	2538.3	2518.9	2496.0	2456.8	2421.6	2370.7	2327.2	2275.5	2204.8
32°	2517.9	2502.1	2483.4	2468.3	2446.1	2404.4	2369.9	2328.3	2277.0	2234.6	2160.3
33°	2437.4	2422.7	2413.4	2395.8	2374.2	2345.5	2304.2	2266.2	2208.4	2164.9	2090.6
34°	2360.6	2341.9	2318.6	2313.6	2294.9	2257.9	2220.6	2181.8	2130.1	2074.8	1999.8
35°	2252.9	2233.5	2212.0	2213.8	2191.5	2148.4	2110.4	2066.9	2017.7	1952.7	1881.7
36°	2108.9	2096.0	2092.8	2084.2	2058.7	2007.3	1971.1	1916.5	1875.2	1795.9	1734.8
37°	1933.4	1938.0	1914.7	1903.6	1873.8	1837.9	1817.4	1747.4	1699.3	1639.7	1557.1
38°	1756.0	1749.2	1721.5	1728.4	1687.4	1650.1	1592.3	1550.6	1496.8	1441.5	1375.4
39°	1534.5	1517.6	1484.6	1486.0	1455.1	1413.1	1357.1	1307.9	1275.6	1222.5	1159.3
40°	1263.1	1255.9	1244.4	1225.4	1184.8	1166.5	1116.6	1063.4	1036.2	962.6	931.7
42.5°	700.8	691.1	671.7	664.9	643.4	621.8	592.8	557.2	540.0	518.1	469.2
45°	286.5	305.5	300.9	295.5	279.0	280.0	259.2	261.7	242.7	229.8	220.8
47.5°	63.2	68.6	68.9	66.4	68.9	66.8	65.7	63.9	64.3	65.3	62.8
50°	28.7	28.4	29.1	28.7	28.4	28.0	27.6	26.6	27.3	26.6	25.8
52.5°	11.1	11.5	11.5	10.8	11.1	11.1	11.1	10.8	10.8	10.8	10.8
55°	3.6	3.6	3.6	3.2	3.2	3.6	3.6	3.6	3.6	3.6	3.2
57.5°	0.4	0.7	0.4	0.7	0.4	0.4	0.4	0.4	0.4	0.7	0.7
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°	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9
2.5°	16.5	15.1	14.0	12.9	10.8	9.0	8.3	8.3
5°	25.5	19.7	14.7	11.8	8.3	5.4	4.3	3.9
7.5°	38.4	26.6	15.4	10.1	5.4	2.9	1.8	1.4
10°	55.6	34.5	16.2	8.3	3.2	1.1	0.0	0.0
12.5°	97.3	41.3	16.2	6.5	1.4	0.0	0.0	0.0
15°	223.0	46.3	15.4	4.7	0.4	0.0	0.0	0.0
17.5°	463.1	58.2	13.6	3.2	0.0	0.0	0.0	0.0
20°	739.6	75.8	10.8	1.8	0.0	0.0	0.0	0.0
21°	853.4	81.9	9.7	1.4	0.0	0.0	0.0	0.0
22°	935.3	87.6	8.6	1.1	0.0	0.0	0.0	0.0
23°	1025.4	91.2	7.5	0.7	0.0	0.0	0.0	0.0
24°	1091.8	93.3	6.5	0.7	0.0	0.0	0.0	0.0
25°	1133.1	93.3	5.7	0.7	0.0	0.0	0.0	0.0
26°	1157.5	91.2	5.0	0.4	0.0	0.0	0.0	0.0
27°	1163.2	87.6	4.3	0.4	0.0	0.0	0.0	0.0
28°	1156.1	82.9	3.6	0.0	0.0	0.0	0.0	0.0
29°	1133.4	76.1	3.2	0.0	0.0	0.0	0.0	0.0
30°	1109.0	68.9	2.5	0.0	0.0	0.0	0.0	0.0
31°	1067.4	59.2	2.2	0.0	0.0	0.0	0.0	0.0
32°	1019.3	49.2	1.8	0.0	0.0	0.0	0.0	0.0
33°	955.0	38.8	1.4	0.0	0.0	0.0	0.0	0.0
34°	860.2	30.5	1.4	0.0	0.0	0.0	0.0	0.0
35°	775.1	24.8	1.1	0.0	0.0	0.0	0.0	0.0
36°	663.8	19.7	1.1	0.0	0.0	0.0	0.0	0.0
37°	568.7	16.5	1.1	0.0	0.0	0.0	0.0	0.0
38°	476.1	14.0	0.7	0.0	0.0	0.0	0.0	0.0
39°	386.3	12.2	0.7	0.0	0.0	0.0	0.0	0.0
40°	308.0	10.8	0.7	0.0	0.0	0.0	0.0	0.0
42.5°	166.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0
45°	91.9	4.7	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	40.6	2.5	0.0	0.0	0.0	0.0	0.0	0.0
50°	13.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3.2	0.0	0.0	0.4	0.0	0.0	0.0	0.0
57.5°	0.7	0.0	0.0	0.4	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.4	0.7	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.4	0.7	0.4	0.0	0.0	0.0
65°	0.0	0.0	0.7	0.7	0.4	0.0	0.0	0.0
67.5°	0.0	0.4	0.7	1.1	0.4	0.0	0.0	0.0
70°	0.0	0.4	0.7	1.1	0.4	0.0	0.0	0.0
72.5°	0.0	0.4	0.7	1.1	0.4	0.0	0.0	0.0
75°	0.0	0.4	0.7	1.1	0.4	0.0	0.0	0.0
77.5°	0.0	0.4	0.7	1.1	0.4	0.0	0.0	0.0
80°	0.0	0.4	0.7	1.1	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	0.7	1.1	0.4	0.0	0.0	0.0
85°	0.0	0.4	0.7	1.1	0.4	0.0	0.0	0.0
87.5°	0.0	0.4	0.7	1.1	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)