

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: P1326656

Luminaire Tested: LDSQA3D09R40W2N902750DE010 3LSQCA30R 1MMS_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1326656
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R40W2N902750DE010 3LSQCA30R 1MMS_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R40 optic, 4000K CCT AND, 90CRI ,
3LSQCA30R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

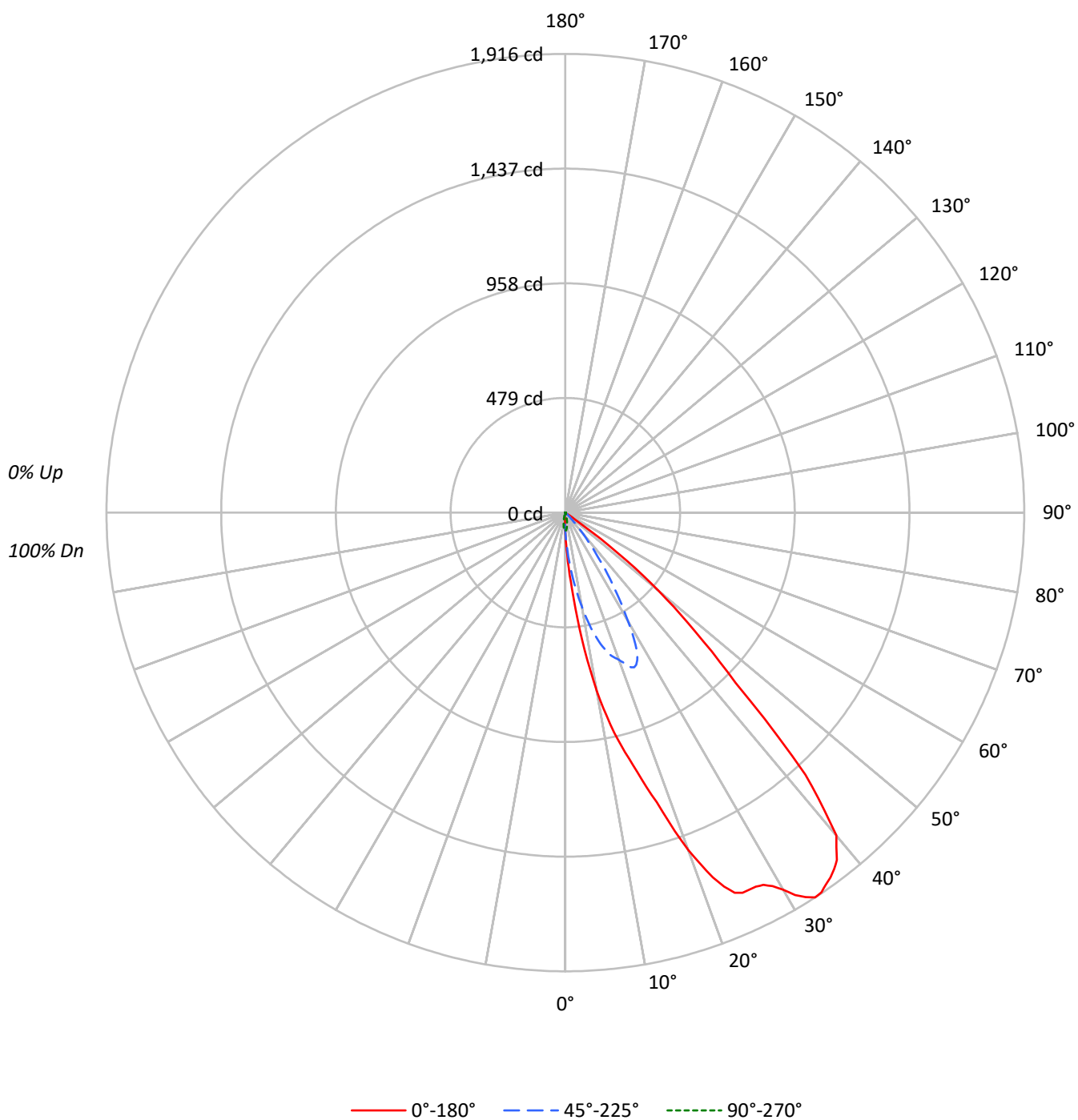
Lumens per Lamp: N/A
Luminaire Lumens: 643.0 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83		
3	99	91	85	80	97	90	84	80	87	82	78	84	81	77	82	79	76	74		
4	92	83	77	72	90	82	76	71	80	74	70	78	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54		
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49		
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40		
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12951	12951	12951	12951	12951
5°	54976	37463	11358	2040	1020
10°	132139	69689	7048	210	0
15°	194487	101255	2960	0	0
20°	274913	120027	1081	0	0
25°	332965	133228	0	0	0
30°	361538	104225	0	0	0
35°	398646	61013	0	0	0
40°	395662	24753	0	0	0
45°	245045	7209	0	0	0
50°	136457	161	0	0	0
55°	13332	0	0	0	0
60°	0	0	207	0	0
65°	0	0	245	0	0
70°	0	302	604	0	0
75°	0	399	799	0	0
80°	0	595	1190	0	0
85°	0	1186	2371	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 246190 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.1	2.2
10°-20°	82.9	12.9
20°-30°	189.2	29.4
30°-40°	223.4	34.7
40°-50°	119.3	18.6
50°-60°	13.0	2.0
60°-70°	0.3	0.0
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°	286.2	44.5
0°-40°	509.5	79.2
0°-60°	641.9	99.8
0°-90°	643.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	643.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	75	75	75	75	75	
5°	318	217	66	12	6	45
15°	1091	568	17	0	0	324
25°	1752	701	0	0	0	796
35°	1896	290	0	0	0	1171
45°	1006	30	0	0	0	830
55°	44	0	0	0	0	125
65°	0	0	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	1	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
2.5°	175.3	171.7	174.1	169.4	169.4	158.7	159.3	150.4	137.4	104.8	74.6
5°	318.0	332.2	321.0	306.2	297.9	287.2	273.0	258.2	216.7	130.9	65.7
7.5°	532.4	531.2	512.2	496.2	477.9	449.5	422.8	386.7	308.5	149.8	54.5
10°	755.6	751.5	730.1	716.5	681.6	640.7	586.2	528.2	398.5	156.3	40.3
12.5°	941.5	936.2	918.5	895.4	856.9	805.3	746.7	670.3	493.3	149.2	26.1
15°	1090.8	1089.6	1072.4	1041.0	1000.8	950.4	884.1	792.3	567.9	130.9	16.6
17.5°	1267.8	1274.9	1244.1	1210.4	1152.4	1081.9	1000.8	895.9	623.0	108.4	10.7
20°	1500.0	1489.9	1461.5	1412.3	1356.7	1272.0	1157.1	1007.3	654.9	84.1	5.9
21°	1571.0	1566.9	1537.3	1491.7	1430.1	1344.2	1225.8	1064.1	669.7	75.2	4.7
22°	1643.3	1636.2	1613.1	1568.6	1510.6	1413.5	1283.2	1122.7	688.7	65.7	3.0
23°	1697.1	1694.2	1676.4	1632.6	1572.8	1478.6	1345.4	1177.2	701.7	56.8	1.8
24°	1738.6	1735.0	1717.3	1684.1	1632.6	1534.3	1408.2	1235.9	707.0	49.1	0.6
25°	1752.2	1754.0	1743.3	1717.3	1674.1	1575.8	1455.0	1282.0	701.1	42.0	0.0
26°	1752.8	1758.1	1750.4	1735.6	1700.1	1608.9	1498.8	1309.3	685.7	35.5	0.0
27°	1752.8	1758.1	1750.4	1739.2	1704.3	1627.9	1522.5	1312.2	662.0	30.2	0.0
28°	1761.1	1764.1	1754.0	1740.4	1702.5	1633.8	1529.0	1294.5	624.1	26.1	0.0
29°	1784.2	1781.2	1764.7	1746.3	1700.7	1633.8	1509.4	1260.7	576.8	21.9	0.0
30°	1818.0	1818.0	1791.9	1762.9	1709.0	1633.2	1478.0	1199.7	524.1	17.8	0.0
31°	1863.5	1859.4	1833.3	1790.1	1726.8	1633.2	1431.9	1132.2	475.5	15.4	0.0
32°	1894.3	1892.0	1867.1	1816.2	1755.8	1633.2	1382.1	1057.6	422.8	12.4	0.0
33°	1915.7	1910.9	1882.5	1829.8	1773.5	1624.9	1326.5	977.7	375.4	10.1	0.0
34°	1912.7	1911.5	1881.9	1827.4	1770.0	1590.6	1261.9	888.8	331.6	8.3	0.0
35°	1896.1	1896.1	1860.0	1803.7	1744.5	1540.2	1198.0	813.0	290.2	5.9	0.0
36°	1883.7	1878.9	1838.1	1775.3	1701.9	1460.9	1103.2	736.7	245.7	4.7	0.0
37°	1865.3	1856.4	1810.8	1743.3	1641.5	1375.0	1003.7	668.6	207.9	3.0	0.0
38°	1841.6	1828.0	1772.4	1706.0	1575.2	1276.1	902.5	592.2	172.9	1.8	0.0
39°	1798.4	1787.2	1729.7	1658.1	1495.8	1171.9	804.2	520.5	139.8	0.6	0.0
40°	1759.9	1740.4	1675.2	1592.9	1402.8	1054.1	706.5	450.0	110.1	0.0	0.0
42.5°	1484.0	1463.2	1448.4	1366.7	1117.4	756.8	493.3	288.4	57.4	0.0	0.0
45°	1006.1	1010.8	964.6	909.6	737.2	493.3	308.5	160.5	29.6	0.0	0.0
47.5°	733.7	721.3	658.5	554.3	432.3	288.4	161.1	77.6	11.8	0.0	0.0
50°	509.3	485.6	428.7	350.6	235.1	137.4	71.1	36.1	0.6	0.0	0.0
52.5°	276.5	260.0	220.3	159.9	97.7	52.7	28.4	14.8	0.0	0.0	0.0
55°	44.4	30.8	32.0	27.2	21.3	15.4	8.9	1.8	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.6	0.6
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.2	1.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.2	1.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	1.2	1.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.2	1.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	1.2	1.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	1.2	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.2	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	1.2	1.2
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):

	112.5°	135°	157.5°	180°
0°	75.2	75.2	75.2	75.2
2.5°	50.3	34.3	26.1	22.5
5°	29.0	11.8	6.5	5.9
7.5°	14.2	4.1	2.4	2.4
10°	5.9	1.2	0.0	0.0
12.5°	1.8	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0
21°	0.0	0.0	0.0	0.0
22°	0.0	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	0.6	0.0	0.0	0.0
67.5°	0.6	0.0	0.0	0.0
70°	0.6	0.0	0.0	0.0
72.5°	0.6	0.0	0.0	0.0
75°	0.6	0.0	0.0	0.0
77.5°	0.6	0.0	0.0	0.0
80°	0.6	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	0.6	0.0	0.0	0.0
85°	0.6	0.0	0.0	0.0
87.5°	0.6	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)