

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: P1326657

Luminaire Tested: LDSQA3D09R40W2N902750DE010 3LSQCA30R 1MMS_5000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1326657
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_5000K
Description: 3in Adjustable Tunable White LED luminaire with, R40 optic, 5000K CCT AND, 90CRI ,
3LSQCA30R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

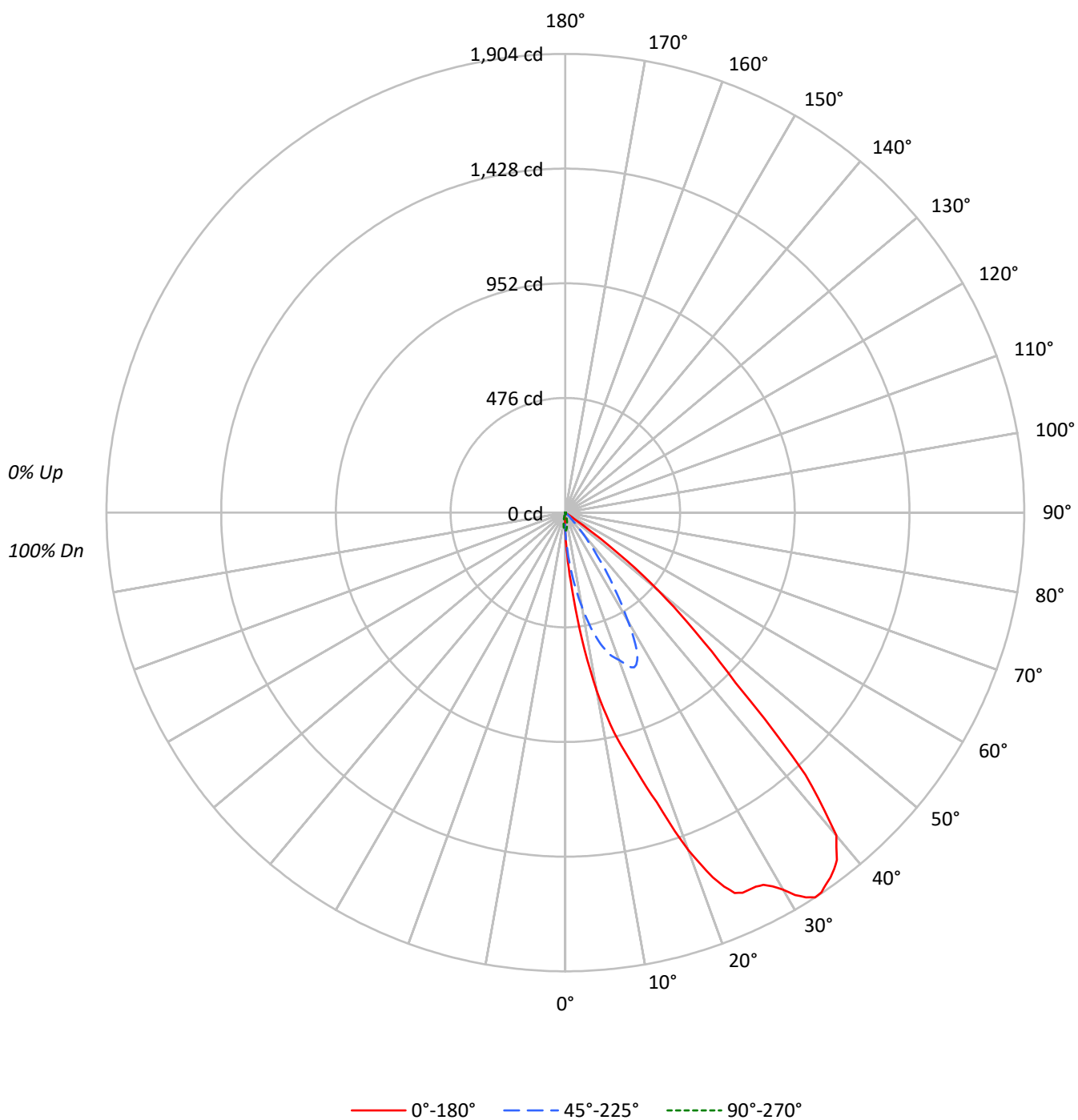
Lumens per Lamp: N/A
Luminaire Lumens: 639.0 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	12865	12865	12865	12865	12865
5°	54630	37238	11289	2040	1020
10°	131317	69252	6995	210	0
15°	193275	100631	2942	0	0
20°	273190	119294	1081	0	0
25°	330893	132411	0	0	0
30°	359271	103569	0	0	0
35°	396165	60635	0	0	0
40°	393211	24618	0	0	0
45°	243511	7161	0	0	0
50°	135600	161	0	0	0
55°	13242	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: 244656 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.0	2.2
10°-20°	82.4	12.9
20°-30°	188.0	29.4
30°-40°	222.0	34.7
40°-50°	118.6	18.6
50°-60°	12.9	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°	284.4	44.5
0°-40°	506.4	79.2
0°-60°	637.9	99.8
0°-90°	639.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	639.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	75	75	75	75	75	
5°	316	215	65	12	6	44
15°	1084	564	16	0	0	322
25°	1741	697	0	0	0	791
35°	1884	288	0	0	0	1164
45°	1000	29	0	0	0	824
55°	44	0	0	0	0	124
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°	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
2.5°	174.2	170.7	173.0	168.3	168.3	157.7	158.3	149.5	136.5	104.2	74.1
5°	316.0	330.1	319.0	304.2	296.0	285.4	271.3	256.6	215.4	130.1	65.3
7.5°	529.0	527.9	509.0	493.1	474.9	446.7	420.2	384.3	306.6	148.9	54.1
10°	750.9	746.8	725.6	712.1	677.3	636.7	582.6	524.9	396.0	155.4	40.0
12.5°	935.7	930.4	912.7	889.8	851.5	800.3	742.1	666.2	490.2	148.3	25.9
15°	1084.0	1082.8	1065.7	1034.6	994.5	944.5	878.6	787.4	564.4	130.1	16.5
17.5°	1259.9	1267.0	1236.4	1202.9	1145.2	1075.2	994.5	890.4	619.1	107.7	10.6
20°	1490.6	1480.6	1452.4	1403.5	1348.2	1264.1	1149.9	1001.0	650.9	83.6	5.9
21°	1561.2	1557.1	1527.7	1482.4	1421.2	1335.9	1218.2	1057.5	665.6	74.7	4.7
22°	1633.0	1626.0	1603.0	1558.9	1501.2	1404.7	1275.2	1115.8	684.4	65.3	2.9
23°	1686.6	1683.6	1666.0	1622.4	1563.0	1469.4	1337.0	1169.9	697.4	56.5	1.8
24°	1727.8	1724.3	1706.6	1673.6	1622.4	1524.8	1399.4	1228.2	702.6	48.8	0.6
25°	1741.3	1743.1	1732.5	1706.6	1663.6	1566.0	1445.9	1274.1	696.8	41.8	0.0
26°	1741.9	1747.2	1739.6	1724.8	1689.5	1598.9	1489.5	1301.1	681.5	35.3	0.0
27°	1741.9	1747.2	1739.6	1728.4	1693.7	1617.7	1513.0	1304.1	657.9	30.0	0.0
28°	1750.1	1753.1	1743.1	1729.6	1691.9	1623.6	1519.5	1286.4	620.3	25.9	0.0
29°	1773.1	1770.2	1753.7	1735.4	1690.1	1623.6	1500.0	1252.9	573.2	21.8	0.0
30°	1806.6	1806.6	1780.7	1751.9	1698.4	1623.0	1468.9	1192.3	520.8	17.7	0.0
31°	1852.0	1847.8	1821.9	1779.0	1716.0	1623.0	1423.0	1125.2	472.6	15.3	0.0
32°	1882.6	1880.2	1855.5	1804.9	1744.9	1623.0	1373.5	1051.0	420.2	12.4	0.0
33°	1903.7	1899.0	1870.8	1818.4	1762.5	1614.8	1318.2	971.6	373.1	10.0	0.0
34°	1900.8	1899.6	1870.2	1816.1	1759.0	1580.7	1254.1	883.3	329.6	8.2	0.0
35°	1884.3	1884.3	1848.4	1792.5	1733.7	1530.6	1190.5	808.0	288.4	5.9	0.0
36°	1872.0	1867.3	1826.7	1764.3	1691.3	1451.8	1096.3	732.1	244.2	4.7	0.0
37°	1853.7	1844.9	1799.6	1732.5	1631.3	1366.5	997.5	664.4	206.6	2.9	0.0
38°	1830.2	1816.6	1761.3	1695.4	1565.4	1268.2	896.8	588.5	171.8	1.8	0.0
39°	1787.2	1776.0	1719.0	1647.8	1486.5	1164.6	799.2	517.3	138.9	0.6	0.0
40°	1749.0	1729.6	1664.8	1583.0	1394.1	1047.5	702.1	447.2	109.5	0.0	0.0
42.5°	1474.7	1454.1	1439.4	1358.2	1110.5	752.1	490.2	286.6	57.1	0.0	0.0
45°	999.8	1004.5	958.6	903.9	732.7	490.2	306.6	159.5	29.4	0.0	0.0
47.5°	729.1	716.8	654.4	550.8	429.6	286.6	160.1	77.1	11.8	0.0	0.0
50°	506.1	482.6	426.1	348.4	233.6	136.5	70.6	35.9	0.6	0.0	0.0
52.5°	274.8	258.3	218.9	158.9	97.1	52.4	28.2	14.7	0.0	0.0	0.0
55°	44.1	30.6	31.8	27.1	21.2	15.3	8.8	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°	74.7	74.7	74.7	74.7
2.5°	50.0	34.1	25.9	22.4
5°	28.8	11.8	6.5	5.9
7.5°	14.1	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)