

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: P1326722

Luminaire Tested: LDSQA3D09R40W2N902765DE010 3LSQCA45R 1MMS_6500K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1326722
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-78)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R40W2N902765DE010 3LSQCA45R 1MMS_6500K
Description: 3in Adjustable Tunable White LED luminaire with, R40 optic, 6500K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

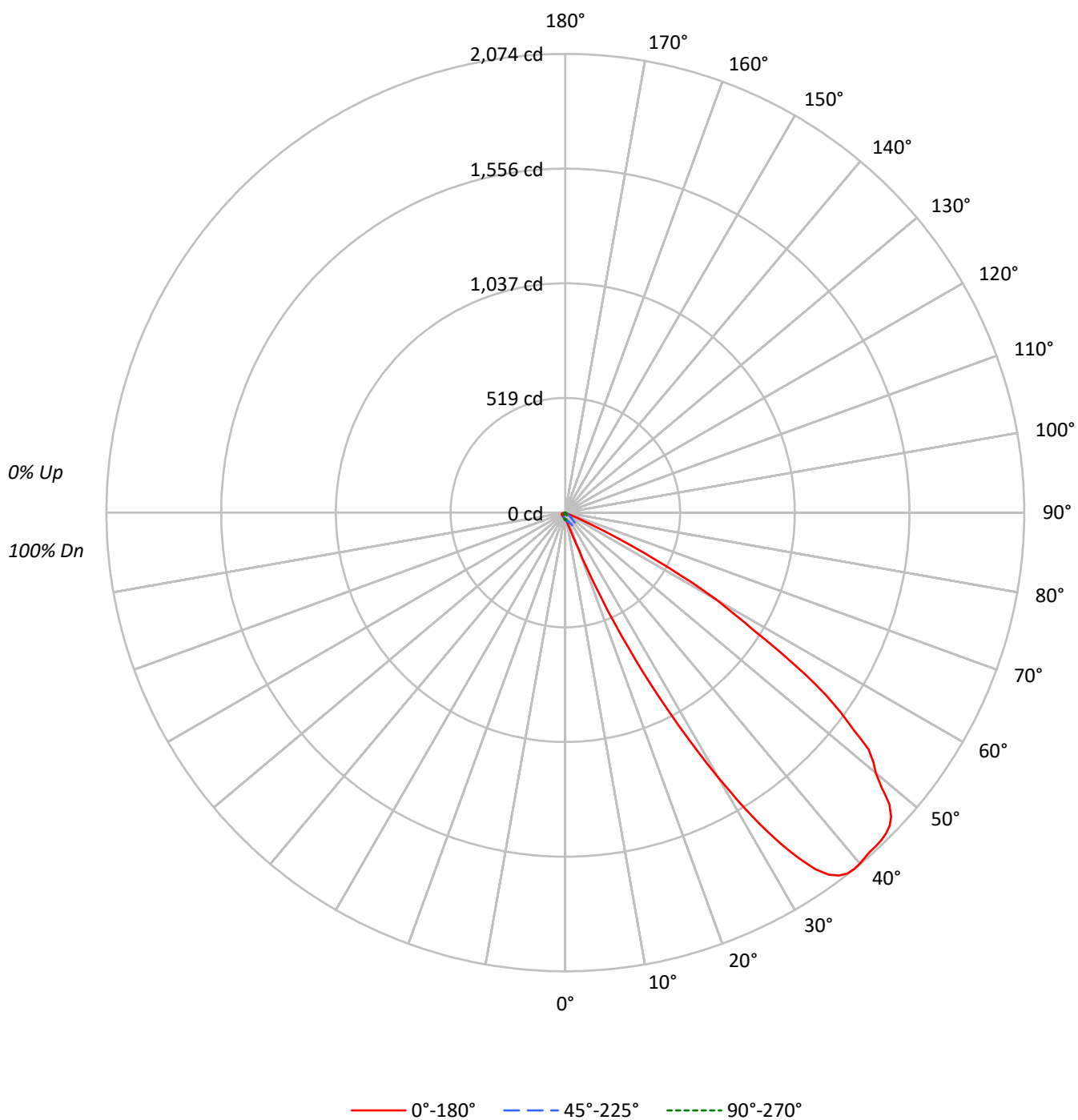
Lumens per Lamp: N/A
Luminaire Lumens: 641.0 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Spacing Criteria (0/90/45): 3.99 / 0.73 / 1.54
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	106	102	99		107	104	100	97		99	97	94		96	93	91		92	90	88
2	100	93	86	81		98	91	85	80		87	82	78		84	80	76		81	78	75
3	91	81	73	66		89	79	72	66		76	70	65		73	68	64		71	66	62
4	82	70	62	55		80	69	61	54		67	59	54		64	58	53		62	57	52
5	75	62	52	46		73	60	52	45		58	51	45		56	50	44		54	49	44
6	68	54	45	38		66	53	44	38		51	43	38		50	43	37		48	42	37
7	62	48	39	32		60	47	38	32		45	37	32		44	37	31		42	36	31
8	57	42	33	27		55	42	33	27		40	32	27		39	32	27		38	31	26
9	52	38	29	23		51	37	29	23		36	28	23		35	28	23		34	27	23
10	48	34	25	20		47	33	25	20		32	25	20		31	24	20		30	24	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5683	5683	5683	5683	5683
5°	6310	6103	5601	5083	4979
10°	7625	6488	5141	4634	4529
15°	12499	7025	4404	4101	4190
20°	33008	8302	3666	3666	3995
25°	127299	10299	2907	3363	3915
30°	274633	13702	2347	3281	3858
35°	413384	16210	1976	3217	3953
40°	465716	16277	1731	3305	4227
45°	499370	12616	1583	3434	4579
50°	490823	7877	1420	3617	5037
55°	431805	3903	1411	4054	5645
60°	273317	827	1619	4478	6269
65°	55911	245	1671	4809	6968
70°	1209	302	1762	5338	8006
75°	1198	799	1930	5856	8983
80°	1190	595	2380	6447	10513
85°	1186	1186	4742	6916	11659

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47°

Luminance: 508386 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.5
10°-20°	10.2	1.6
20°-30°	49.8	7.8
30°-40°	161.9	25.3
40°-50°	223.2	34.8
50°-60°	155.5	24.3
60°-70°	29.5	4.6
70°-80°	5.3	0.8
80°-90°	2.5	0.4
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°	63.0	9.8
0°-40°	225.0	35.1
0°-60°	603.7	94.2
0°-90°	641.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	641.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	33	33	33	33	33	
5°	36	35	32	29	29	4
15°	70	39	25	23	24	25
25°	670	54	15	18	21	345
35°	1966	77	9	15	19	1188
45°	2050	52	6	14	19	1559
55°	1438	13	5	14	19	1229
65°	137	1	4	12	17	243
75°	2	1	3	9	14	2
85°	1	1	2	4	6	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°	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
2.5°	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	33.6	33.0
5°	36.5	36.5	36.5	36.5	35.9	35.9	35.9	35.3	35.3	34.1	32.4
7.5°	38.9	38.9	38.9	38.9	38.3	37.7	37.1	37.1	36.5	33.6	31.2
10°	43.6	43.6	43.0	42.4	41.8	40.6	40.0	38.9	37.1	33.0	29.4
12.5°	53.0	51.8	51.2	50.0	48.3	45.9	43.6	41.8	37.7	31.8	27.7
15°	70.1	68.9	66.5	63.0	59.5	54.7	50.6	46.5	39.4	30.0	24.7
17.5°	100.1	96.5	93.0	87.1	78.3	70.1	61.2	53.6	41.8	28.3	22.4
20°	180.1	177.8	156.6	140.1	113.6	94.8	77.1	64.2	45.3	26.5	20.0
22.5°	371.5	346.7	312.0	255.5	199.0	146.6	106.5	80.6	48.9	24.1	17.7
25°	669.9	631.1	556.3	447.4	330.2	233.7	154.2	105.4	54.2	21.8	15.3
27.5°	1014.3	974.8	858.9	708.8	517.4	352.6	220.2	139.5	61.2	19.4	13.5
30°	1381.0	1347.5	1200.3	992.5	729.4	493.9	294.9	174.2	68.9	17.1	11.8
31°	1528.8	1485.8	1326.9	1105.5	828.8	552.2	324.9	189.0	71.8	16.5	11.2
32°	1664.8	1615.9	1451.1	1213.8	909.5	615.2	357.9	201.9	74.2	15.3	10.6
33°	1781.9	1724.8	1565.9	1316.3	998.4	674.0	392.1	214.3	75.9	14.1	10.0
34°	1881.4	1831.9	1661.2	1419.3	1077.3	730.5	425.6	226.6	77.1	13.5	9.4
35°	1966.2	1921.4	1752.5	1497.6	1154.4	785.3	456.2	238.4	77.1	12.4	9.4
36°	2023.3	1984.4	1831.4	1577.6	1219.1	831.8	482.1	249.0	77.1	11.2	8.8
37°	2054.5	2016.8	1883.2	1643.6	1282.7	877.7	505.7	257.2	76.5	10.6	8.2
38°	2070.4	2037.4	1921.4	1697.1	1326.9	910.7	526.3	263.7	75.9	9.4	8.2
39°	2074.5	2046.8	1945.6	1736.0	1369.8	943.6	541.0	267.3	74.2	8.8	7.7
40°	2071.5	2047.4	1958.5	1770.7	1402.8	969.5	551.6	268.4	72.4	7.7	7.7
41°	2065.6	2046.8	1967.9	1794.9	1429.3	986.0	555.7	266.1	70.1	6.5	7.1
42°	2060.3	2039.7	1972.0	1811.3	1447.5	994.3	555.1	261.4	66.5	5.9	7.1
43°	2060.3	2036.8	1972.6	1821.9	1456.4	994.9	548.1	252.5	61.8	5.3	6.5
44°	2056.8	2035.0	1975.6	1829.0	1458.7	989.6	536.9	243.1	56.5	4.7	6.5
45°	2050.3	2027.4	1975.0	1829.6	1454.6	976.6	518.6	230.8	51.8	3.5	6.5
46°	2038.0	2017.4	1969.7	1825.5	1442.2	957.8	496.8	218.4	46.5	2.9	5.9
47°	2013.2	1997.4	1955.6	1811.3	1423.4	930.1	470.9	204.3	42.4	2.4	5.9
48°	1970.9	1959.7	1931.4	1780.1	1387.5	896.0	443.3	189.0	38.3	2.4	5.9
49°	1893.2	1884.3	1867.8	1730.1	1341.6	854.2	413.2	171.9	34.1	1.8	5.9
50°	1831.9	1822.5	1789.0	1645.9	1275.6	801.2	380.3	154.8	29.4	1.2	5.3
51°	1791.3	1776.0	1723.0	1548.2	1179.7	730.5	344.4	137.7	24.7	1.2	5.3
52°	1740.1	1717.1	1651.2	1460.5	1092.0	659.9	305.5	120.7	21.8	1.2	5.3
53°	1633.0	1624.7	1559.4	1366.3	1004.3	592.2	265.5	106.5	18.8	1.2	5.3
54°	1539.4	1527.0	1438.1	1235.6	908.9	516.9	224.3	94.2	15.9	1.2	5.3
55°	1438.1	1414.0	1335.1	1125.5	797.1	447.4	184.8	81.2	13.0	1.2	4.7
56°	1310.4	1289.2	1204.4	1007.8	694.0	376.7	154.8	66.5	10.0	1.2	4.7
57°	1155.0	1135.5	1070.2	863.0	586.9	307.9	126.0	53.6	7.7	1.2	4.7
58°	1004.9	983.1	908.3	724.1	473.9	244.3	105.4	43.6	5.9	1.2	4.7
59°	889.5	860.0	763.5	608.1	370.9	185.4	83.6	34.7	4.1	1.2	4.7
60°	793.5	769.4	669.3	506.3	290.8	136.6	61.8	26.5	2.4	1.2	4.7
62.5°	459.8	453.3	363.2	260.8	137.2	63.6	30.6	12.4	1.2	1.8	4.7
65°	137.2	119.5	93.0	55.3	35.3	21.2	11.2	4.1	0.6	1.8	4.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
67.5°	4.1	4.1	4.1	4.1	4.1	4.1	2.4	1.2	0.6	1.8	4.1
70°	2.4	1.8	1.8	1.8	1.8	1.2	1.2	0.6	0.6	1.8	3.5
72.5°	1.8	1.8	1.8	1.8	1.2	1.2	1.2	0.6	1.2	1.8	2.9
75°	1.8	1.2	1.2	1.2	1.2	0.6	0.6	0.6	1.2	1.8	2.9
77.5°	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	1.2	1.8	2.9
80°	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.8	2.4
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.8	2.4
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.8	2.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	1.8	1.8
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°	33.0	33.0	33.0	33.0
2.5°	31.8	31.2	30.6	30.6
5°	30.6	29.4	29.4	28.8
7.5°	28.8	27.7	27.7	27.7
10°	27.1	26.5	26.5	25.9
12.5°	24.7	24.7	24.7	24.7
15°	23.0	23.0	23.5	23.5
17.5°	20.6	21.2	22.4	23.0
20°	18.8	20.0	21.2	21.8
22.5°	17.7	18.8	20.6	21.2
25°	15.9	17.7	20.0	20.6
27.5°	14.7	17.1	18.8	20.0
30°	13.5	16.5	18.2	19.4
31°	13.5	15.9	18.2	19.4
32°	13.0	15.3	18.2	18.8
33°	13.0	15.3	18.2	18.8
34°	12.4	15.3	17.7	18.8
35°	12.4	15.3	17.7	18.8
36°	11.8	14.7	17.7	18.8
37°	11.8	14.7	17.7	18.8
38°	11.2	14.7	17.7	18.8
39°	11.2	14.7	17.7	18.8
40°	11.2	14.7	17.7	18.8
41°	10.6	14.7	17.7	18.8
42°	10.6	14.7	17.7	18.8
43°	10.6	14.1	17.7	18.8
44°	10.6	14.1	17.7	18.8
45°	10.0	14.1	17.7	18.8
46°	10.0	14.1	17.7	18.8
47°	10.0	14.1	17.7	18.8
48°	10.0	14.1	17.7	18.8
49°	10.0	14.1	17.7	18.8
50°	9.4	13.5	17.7	18.8
51°	9.4	13.5	17.7	18.8
52°	9.4	13.5	17.7	18.8
53°	9.4	13.5	17.7	18.8
54°	8.8	13.5	17.7	18.8
55°	8.8	13.5	17.7	18.8
56°	8.8	13.5	17.7	18.2
57°	8.8	13.5	17.1	18.2
58°	8.8	13.0	17.1	18.2
59°	8.8	13.0	17.1	18.2
60°	8.8	13.0	17.1	18.2
62.5°	8.2	13.0	16.5	17.7
65°	7.7	11.8	16.5	17.1



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
67.5°	7.7	11.2	15.3	16.5
70°	7.1	10.6	14.7	15.9
72.5°	5.9	10.0	13.5	14.7
75°	5.3	8.8	12.4	13.5
77.5°	4.7	7.7	11.2	11.8
80°	4.1	6.5	9.4	10.6
82.5°	2.9	4.7	7.7	8.2
85°	2.4	3.5	5.3	5.9
87.5°	1.8	1.8	2.9	2.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)