

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: P1324591

Luminaire Tested: LDSQA3D05R25W2N902765DE010 3LSQCA45R 1MMS_3000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1324591
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-75)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D05R25W2N902765DE010 3LSQCA45R 1MMS_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R25 optic, 3000K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

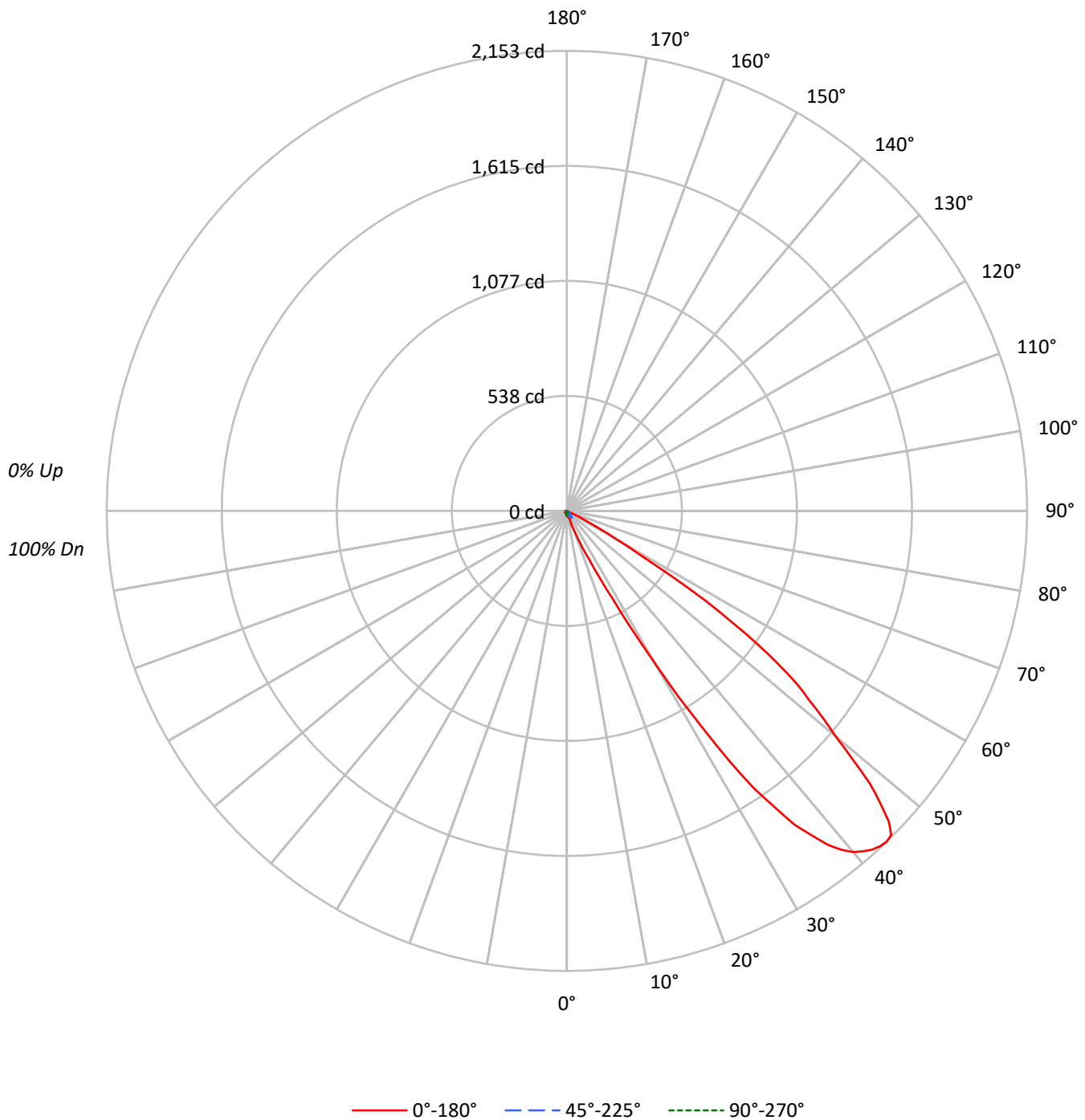
Lumens per Lamp: N/A
Luminaire Lumens: 449.0 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			0
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	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42		
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35		
7	62	48	39	32	60	47	39	32	46	38	32	44	37	32	43	36	32	29		
8	57	43	34	27	55	42	33	27	40	33	27	39	32	27	38	32	27	25		
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21		
10	48	34	25	20	47	33	25	20	32	25	20	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3944	3944	3944	3944	3944
5°	4512	4305	3821	3423	3354
10°	4494	4075	3253	2833	2833
15°	5010	3530	2532	2389	2532
20°	17668	3482	1961	2034	2236
25°	50832	4428	1577	1881	2185
30°	162175	6841	1253	1810	2207
35°	355209	8052	1072	1745	2250
40°	468571	7284	899	1776	2406
45°	522533	5090	877	1924	2606
50°	439862	2653	857	2009	2867
55°	328846	1081	841	2252	3213
60°	101784	276	827	2446	3548
65°	8680	0	978	2567	3871
70°	604	201	1007	2971	4381
75°	532	266	1331	3127	4991
80°	397	397	1984	3570	5852
85°	790	790	3162	3952	6323

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 522533 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.5
10°-20°	5.3	1.2
20°-30°	24.8	5.5
30°-40°	119.6	26.6
40°-50°	187.5	41.7
50°-60°	96.1	21.4
60°-70°	9.1	2.0
70°-80°	3.1	0.7
80°-90°	1.5	0.3
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°	32.2	7.2
0°-40°	151.8	33.8
0°-60°	435.4	97.0
0°-90°	449.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	449.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	23	23	23	23	23	
5°	26	25	22	20	19	2
15°	28	20	14	13	14	12
25°	268	23	8	10	12	166
35°	1690	38	5	8	11	1026
45°	2145	21	4	8	11	1570
55°	1095	4	3	8	11	912
65°	21	0	2	6	10	67
75°	1	0	2	5	8	1
85°	0	0	2	2	3	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9
2.5°	24.9	24.9	24.9	24.9	24.9	24.9	24.5	24.5	24.9	24.5	24.5
5°	26.1	26.1	26.1	26.1	26.1	26.1	26.1	25.7	25.7	25.7	24.9
7.5°	26.5	26.1	26.1	26.1	26.1	26.1	26.1	26.1	25.7	25.7	24.5
10°	25.7	25.7	25.7	25.7	25.3	25.3	25.3	24.9	24.9	24.9	23.3
12.5°	25.7	25.7	25.7	25.7	25.3	25.3	24.9	24.9	24.5	24.1	21.3
15°	28.1	28.1	28.1	27.7	27.3	26.9	26.5	26.1	25.7	24.9	19.8
17.5°	41.1	39.9	39.5	37.9	36.0	34.0	32.4	30.8	29.2	28.1	19.0
20°	96.4	96.0	94.0	89.3	84.2	78.2	72.3	65.6	56.1	49.8	19.0
22.5°	167.1	164.8	161.2	157.6	148.6	137.9	126.8	114.2	101.9	88.9	20.2
25°	267.5	273.0	261.2	251.7	235.9	216.5	195.6	178.2	156.1	135.5	23.3
27.5°	465.0	468.6	445.3	414.5	377.7	337.0	297.5	267.9	230.7	196.8	29.2
30°	815.5	819.1	779.9	714.4	638.5	571.7	481.2	401.8	328.7	272.2	34.4
31°	1017.8	990.1	944.7	881.1	785.1	684.3	575.7	479.7	387.2	312.9	36.0
32°	1193.6	1191.3	1138.3	1041.9	945.5	821.0	686.3	561.1	447.7	354.0	37.1
33°	1401.1	1385.3	1310.6	1219.7	1092.1	966.8	793.0	650.0	509.7	399.9	37.9
34°	1567.4	1524.7	1493.9	1390.0	1255.3	1095.6	909.5	744.0	587.1	444.1	38.3
35°	1689.5	1680.4	1620.3	1523.5	1386.4	1223.3	1035.2	841.6	651.9	495.5	38.3
36°	1818.7	1790.6	1732.2	1644.4	1510.9	1342.2	1131.2	926.1	727.4	541.7	37.9
37°	1899.7	1883.1	1825.0	1734.5	1603.7	1442.5	1238.7	1015.4	787.5	587.9	37.1
38°	1983.1	1949.5	1892.2	1805.7	1677.2	1525.9	1316.5	1084.2	842.8	628.6	36.0
39°	2040.7	2006.0	1947.5	1861.4	1735.7	1585.6	1378.1	1142.7	891.0	659.0	34.4
40°	2084.2	2050.6	1991.4	1902.8	1778.8	1632.6	1429.5	1194.4	931.3	685.5	32.4
41°	2111.1	2079.9	2021.0	1932.9	1808.4	1659.5	1463.1	1228.0	958.5	703.3	30.4
42°	2133.6	2101.6	2041.5	1951.4	1826.6	1682.4	1483.6	1249.3	977.1	712.4	28.8
43°	2146.2	2114.2	2055.8	1963.7	1837.7	1693.0	1494.7	1259.2	983.4	711.2	26.1
44°	2153.3	2120.2	2061.3	1969.2	1842.4	1695.8	1495.5	1257.2	979.1	701.7	23.7
45°	2145.4	2112.7	2055.8	1963.7	1834.1	1687.1	1487.6	1246.6	962.5	683.1	20.9
46°	2094.1	2068.8	2016.6	1932.1	1808.0	1665.0	1467.4	1226.0	936.8	660.2	17.8
47°	2003.6	1983.4	1932.9	1870.1	1757.8	1624.3	1430.3	1186.9	900.8	625.9	14.2
48°	1909.2	1879.5	1832.5	1768.1	1673.3	1551.2	1369.1	1129.6	846.3	580.8	12.6
49°	1769.7	1752.3	1710.8	1638.9	1560.3	1452.8	1282.5	1056.1	779.6	531.8	11.1
50°	1641.7	1629.8	1571.7	1518.8	1435.4	1335.1	1165.2	959.3	696.6	471.0	9.9
51°	1541.7	1527.5	1485.6	1419.6	1330.7	1214.2	1054.2	833.7	601.4	398.7	7.9
52°	1437.4	1429.5	1392.4	1324.4	1237.1	1120.9	946.3	727.0	508.9	337.0	6.3
53°	1352.1	1340.6	1295.2	1234.7	1140.3	1020.2	829.3	627.8	431.1	283.3	5.5
54°	1227.6	1222.9	1193.6	1130.4	1028.1	897.3	723.4	528.7	359.5	240.2	4.7
55°	1095.2	1079.4	1049.8	999.6	905.6	783.5	601.0	438.2	290.8	202.3	3.6
56°	934.0	933.2	880.3	838.4	755.1	625.5	480.1	342.2	236.3	168.7	3.2
57°	779.9	755.1	704.1	662.6	572.9	474.5	356.4	256.4	184.9	136.7	2.4
58°	576.9	563.8	550.4	489.5	406.6	336.2	254.5	180.2	136.7	104.3	1.6
59°	391.6	391.2	375.4	329.1	281.3	209.4	158.8	122.5	94.0	76.7	1.2
60°	295.5	288.4	256.8	226.4	177.0	132.4	94.0	72.3	58.5	49.4	0.8
62.5°	103.5	107.5	94.4	78.2	59.7	49.0	37.5	30.4	24.9	20.2	0.0
65°	21.3	23.3	20.2	19.0	15.0	13.0	11.5	9.9	8.3	7.1	0.0



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	2.8	2.4	2.4	2.4	2.0	2.0	2.0	2.0	1.6	1.6	0.4
70°	1.2	1.2	1.2	1.2	1.2	1.2	0.8	0.8	0.8	0.8	0.4
72.5°	1.2	1.2	1.2	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.4
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
85°	0.4	0.4	0.4	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	22.9	22.9	22.9	22.9	22.9	22.9
2.5°	24.1	23.3	22.1	21.7	21.3	21.3
5°	23.7	22.1	20.9	19.8	19.4	19.4
7.5°	22.5	20.5	19.0	18.2	17.8	17.4
10°	21.3	18.6	17.0	16.2	16.2	16.2
12.5°	19.0	16.6	15.0	14.6	15.0	15.0
15°	17.0	14.2	13.4	13.4	13.8	14.2
17.5°	14.6	12.6	11.9	12.2	12.6	13.0
20°	13.0	10.7	10.7	11.1	12.2	12.2
22.5°	11.5	9.5	9.5	10.7	11.5	11.9
25°	10.3	8.3	8.7	9.9	11.1	11.5
27.5°	8.7	7.1	7.9	9.5	10.7	11.1
30°	7.5	6.3	7.5	9.1	10.3	11.1
31°	7.1	5.9	7.5	8.7	10.3	11.1
32°	6.3	5.9	7.1	8.7	10.3	10.7
33°	5.9	5.5	7.1	8.7	10.3	10.7
34°	5.5	5.1	6.7	8.7	10.3	10.7
35°	4.7	5.1	6.7	8.3	9.9	10.7
36°	4.3	4.7	6.7	8.3	9.9	10.7
37°	4.0	4.7	6.3	8.3	9.9	10.7
38°	3.6	4.3	6.3	8.3	9.9	10.7
39°	3.2	4.3	5.9	8.3	9.9	10.7
40°	2.8	4.0	5.9	7.9	9.9	10.7
41°	2.8	4.0	5.9	7.9	9.9	10.7
42°	2.4	4.0	5.9	7.9	9.9	10.7
43°	2.0	3.6	5.9	7.9	9.9	10.7
44°	1.6	3.6	5.5	7.9	9.9	10.7
45°	1.6	3.6	5.5	7.9	9.9	10.7
46°	1.2	3.2	5.5	7.9	9.9	10.7
47°	0.8	3.2	5.5	7.5	9.9	10.7
48°	0.8	3.2	5.5	7.5	9.9	10.7
49°	0.8	3.2	5.1	7.5	9.9	10.7
50°	0.8	3.2	5.1	7.5	9.9	10.7
51°	0.4	2.8	5.1	7.5	9.9	10.7
52°	0.4	2.8	5.1	7.5	9.9	11.1
53°	0.4	2.8	5.1	7.5	9.9	10.7
54°	0.4	2.8	4.7	7.5	9.9	10.7
55°	0.4	2.8	4.7	7.5	9.9	10.7
56°	0.4	2.4	4.7	7.1	9.9	10.7
57°	0.8	2.4	4.7	7.1	9.9	10.3
58°	0.8	2.4	4.7	7.1	9.5	10.3
59°	0.8	2.4	4.7	7.1	9.5	10.3
60°	0.8	2.4	4.3	7.1	9.5	10.3
62.5°	0.8	2.4	4.3	6.7	9.1	9.9
65°	0.8	2.4	4.0	6.3	9.1	9.5



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.8	2.0	4.0	5.9	8.7	9.1
70°	1.2	2.0	3.6	5.9	8.3	8.7
72.5°	1.2	2.0	3.6	5.1	7.5	8.3
75°	1.2	2.0	3.2	4.7	7.1	7.5
77.5°	1.2	2.0	2.8	4.3	6.3	6.7
80°	1.6	2.0	2.4	3.6	5.5	5.9
82.5°	1.6	2.0	2.0	2.8	4.3	4.7
85°	1.2	1.6	1.6	2.0	2.8	3.2
87.5°	1.2	1.6	1.2	0.8	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)