

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: P1324596

Luminaire Tested: LDSQA3D05R25W2N902765DE010 3LSQCA45R 1MW_2700K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1324596
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 1MW_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R25 optic, 2700K CCT AND, 90CRI ,
3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

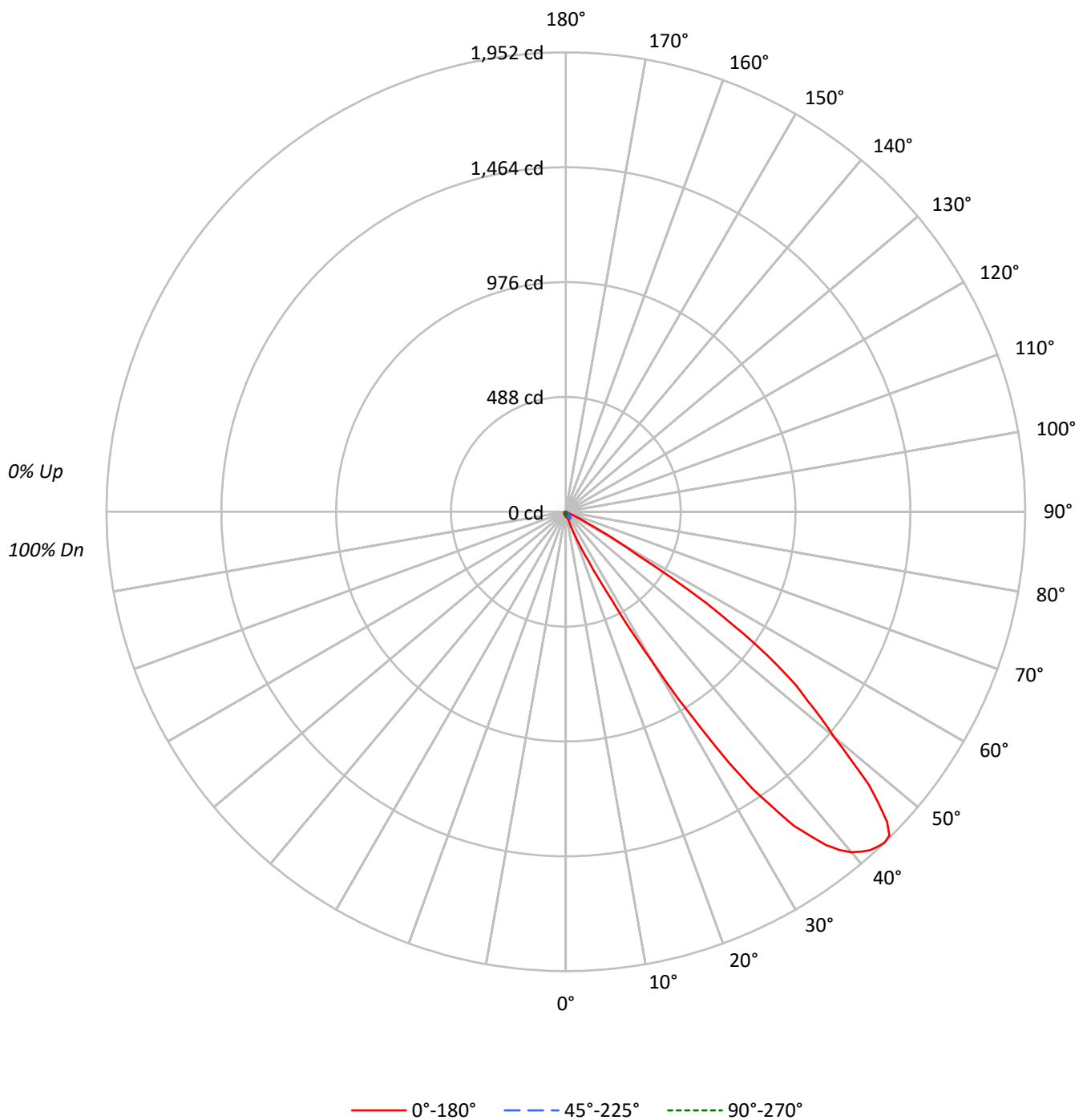
Lumens per Lamp: N/A
Luminaire Lumens: 407.0 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	3582	3582	3582	3582	3582
5°	4080	3907	3475	3095	3025
10°	4075	3690	2938	2571	2571
15°	4529	3192	2300	2175	2300
20°	16018	3152	1778	1833	2034
25°	46081	4010	1425	1710	1976
30°	147001	6205	1134	1631	1989
35°	321990	7296	988	1577	2039
40°	424731	6610	809	1619	2181
45°	473675	4628	779	1754	2363
50°	398708	2411	777	1822	2599
55°	298099	961	751	2042	2913
60°	92277	241	723	2204	3203
65°	7865	0	856	2323	3505
70°	554	201	906	2719	3978
75°	466	266	1198	2861	4525
80°	397	397	1785	3174	5356
85°	790	790	2766	3557	5730

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 473675 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.9	0.5
10°-20°	4.8	1.2
20°-30°	22.5	5.5
30°-40°	108.4	26.6
40°-50°	169.9	41.8
50°-60°	87.1	21.4
60°-70°	8.2	2.0
70°-80°	2.8	0.7
80°-90°	1.4	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°	29.2	7.2
0°-40°	137.6	33.8
0°-60°	394.6	97.0
0°-90°	407.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	407.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	21	21	21	21	21	
5°	24	23	20	18	18	2
15°	25	18	13	12	13	11
25°	242	21	8	9	10	150
35°	1532	35	5	8	10	930
45°	1945	19	3	7	10	1423
55°	993	3	2	7	10	827
65°	19	0	2	6	9	61
75°	1	0	2	4	7	1
85°	0	0	1	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°	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8
2.5°	22.6	22.6	22.6	22.6	22.6	22.6	22.2	22.2	22.6	22.2	22.2
5°	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.3	23.3	23.3	22.6
7.5°	24.0	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.3	23.3	22.2
10°	23.3	23.3	23.3	23.3	22.9	22.9	22.9	22.6	22.6	22.6	21.1
12.5°	23.3	23.3	23.3	23.3	22.9	22.9	22.6	22.6	22.2	21.8	19.3
15°	25.4	25.4	25.4	25.1	24.7	24.4	24.0	23.6	23.3	22.6	17.9
17.5°	37.2	36.2	35.8	34.4	32.6	30.8	29.4	27.9	26.5	25.4	17.2
20°	87.4	87.0	85.2	80.9	76.3	70.9	65.5	59.5	50.9	45.1	17.2
22.5°	151.5	149.3	146.1	142.9	134.7	125.0	115.0	103.5	92.4	80.6	18.3
25°	242.5	247.5	236.7	228.1	213.8	196.3	177.3	161.5	141.5	122.8	21.1
27.5°	421.5	424.8	403.6	375.7	342.4	305.5	269.7	242.8	209.2	178.4	26.5
30°	739.2	742.4	707.0	647.5	578.8	518.2	436.2	364.2	298.0	246.8	31.2
31°	922.6	897.5	856.3	798.7	711.6	620.3	521.8	434.8	351.0	283.7	32.6
32°	1082.0	1079.8	1031.8	944.4	857.1	744.2	622.1	508.6	405.8	320.9	33.7
33°	1270.0	1255.7	1188.0	1105.6	989.9	876.4	718.8	589.2	462.0	362.4	34.4
34°	1420.8	1382.1	1354.2	1260.0	1137.8	993.2	824.5	674.4	532.2	402.6	34.7
35°	1531.5	1523.2	1468.8	1381.0	1256.7	1108.8	938.4	762.9	590.9	449.1	34.7
36°	1648.6	1623.1	1570.1	1490.6	1369.6	1216.6	1025.4	839.5	659.4	491.0	34.4
37°	1722.0	1706.9	1654.3	1572.3	1453.7	1307.6	1122.8	920.4	713.8	532.9	33.7
38°	1797.6	1767.1	1715.2	1636.7	1520.3	1383.2	1193.4	982.8	763.9	569.8	32.6
39°	1849.8	1818.3	1765.3	1687.2	1573.4	1437.3	1249.2	1035.8	807.6	597.4	31.2
40°	1889.2	1858.8	1805.1	1724.9	1612.4	1479.9	1295.8	1082.7	844.2	621.4	29.4
41°	1913.6	1885.3	1831.9	1752.1	1639.3	1504.2	1326.2	1113.1	868.9	637.5	27.6
42°	1934.0	1905.0	1850.6	1768.9	1655.7	1525.0	1344.9	1132.5	885.7	645.7	26.1
43°	1945.5	1916.5	1863.5	1780.0	1665.8	1534.7	1354.9	1141.4	891.4	644.7	23.6
44°	1951.9	1921.8	1868.5	1785.0	1670.1	1537.2	1355.6	1139.6	887.5	636.1	21.5
45°	1944.8	1915.0	1863.5	1780.0	1662.5	1529.3	1348.4	1130.0	872.5	619.2	19.0
46°	1898.2	1875.3	1828.0	1751.4	1638.9	1509.2	1330.2	1111.3	849.2	598.5	16.1
47°	1816.2	1797.9	1752.1	1695.1	1593.4	1472.4	1296.5	1075.9	816.6	567.3	12.9
48°	1730.6	1703.7	1661.1	1602.7	1516.8	1406.1	1241.0	1024.0	767.2	526.5	11.5
49°	1604.2	1588.4	1550.8	1485.6	1414.3	1316.9	1162.6	957.3	706.6	482.1	10.0
50°	1488.1	1477.4	1424.7	1376.7	1301.2	1210.2	1056.2	869.6	631.4	426.9	9.0
51°	1397.5	1384.6	1346.6	1286.8	1206.3	1100.6	955.5	755.7	545.1	361.4	7.2
52°	1303.0	1295.8	1262.1	1200.5	1121.4	1016.1	857.8	659.0	461.3	305.5	5.7
53°	1225.6	1215.2	1174.0	1119.2	1033.6	924.7	751.8	569.1	390.7	256.8	5.0
54°	1112.8	1108.5	1082.0	1024.7	931.9	813.4	655.8	479.2	325.9	217.8	4.3
55°	992.8	978.5	951.6	906.1	820.9	710.2	544.7	397.2	263.6	183.4	3.2
56°	846.7	846.0	798.0	760.0	684.4	567.0	435.2	310.2	214.2	152.9	2.9
57°	707.0	684.4	638.2	600.6	519.3	430.1	323.1	232.4	167.6	123.9	2.1
58°	522.9	511.1	498.9	443.7	368.5	304.8	230.6	163.3	123.9	94.6	1.4
59°	354.9	354.6	340.2	298.3	255.0	189.8	144.0	111.0	85.2	69.5	1.1
60°	267.9	261.4	232.8	205.2	160.5	120.0	85.2	65.5	53.0	44.8	0.7
62.5°	93.8	97.4	85.6	70.9	54.1	44.4	34.0	27.6	22.6	18.3	0.0
65°	19.3	21.1	18.3	17.2	13.6	11.8	10.4	9.0	7.5	6.4	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°	2.5	2.1	2.1	2.1	1.8	1.8	1.8	1.8	1.4	1.4	0.4
70°	1.1	1.1	1.1	1.1	1.1	1.1	0.7	0.7	0.7	0.7	0.4
72.5°	1.1	1.1	1.1	0.7	0.7	0.7	0.7	0.7	0.7	0.4	0.4
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.4	0.4	0.4	0.4
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	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	0.7
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°	20.8	20.8	20.8	20.8	20.8	20.8
2.5°	21.8	21.1	20.1	19.7	19.3	19.3
5°	21.5	20.1	19.0	17.9	17.5	17.5
7.5°	20.4	18.6	17.2	16.5	16.1	15.8
10°	19.3	16.8	15.4	14.7	14.7	14.7
12.5°	17.2	15.0	13.6	13.3	13.6	13.6
15°	15.4	12.9	12.2	12.2	12.5	12.9
17.5°	13.3	11.5	10.7	11.1	11.5	11.8
20°	11.8	9.7	9.7	10.0	11.1	11.1
22.5°	10.4	8.6	8.6	9.7	10.4	10.7
25°	9.3	7.5	7.9	9.0	10.0	10.4
27.5°	7.9	6.4	7.2	8.6	9.7	10.0
30°	6.8	5.7	6.8	8.2	9.3	10.0
31°	6.4	5.4	6.8	7.9	9.3	10.0
32°	5.7	5.4	6.4	7.9	9.3	9.7
33°	5.4	5.0	6.4	7.9	9.3	9.7
34°	5.0	4.7	6.1	7.9	9.3	9.7
35°	4.3	4.7	6.1	7.5	9.0	9.7
36°	3.9	4.3	6.1	7.5	9.0	9.7
37°	3.6	4.3	5.7	7.5	9.0	9.7
38°	3.2	3.9	5.7	7.5	9.0	9.7
39°	2.9	3.9	5.4	7.5	9.0	9.7
40°	2.5	3.6	5.4	7.2	9.0	9.7
41°	2.5	3.6	5.4	7.2	9.0	9.7
42°	2.1	3.6	5.4	7.2	9.0	9.7
43°	1.8	3.2	5.4	7.2	9.0	9.7
44°	1.4	3.2	5.0	7.2	9.0	9.7
45°	1.4	3.2	5.0	7.2	9.0	9.7
46°	1.1	2.9	5.0	7.2	9.0	9.7
47°	0.7	2.9	5.0	6.8	9.0	9.7
48°	0.7	2.9	5.0	6.8	9.0	9.7
49°	0.7	2.9	4.7	6.8	9.0	9.7
50°	0.7	2.9	4.7	6.8	9.0	9.7
51°	0.4	2.5	4.7	6.8	9.0	9.7
52°	0.4	2.5	4.7	6.8	9.0	10.0
53°	0.4	2.5	4.7	6.8	9.0	9.7
54°	0.4	2.5	4.3	6.8	9.0	9.7
55°	0.4	2.5	4.3	6.8	9.0	9.7
56°	0.4	2.1	4.3	6.4	9.0	9.7
57°	0.7	2.1	4.3	6.4	9.0	9.3
58°	0.7	2.1	4.3	6.4	8.6	9.3
59°	0.7	2.1	4.3	6.4	8.6	9.3
60°	0.7	2.1	3.9	6.4	8.6	9.3
62.5°	0.7	2.1	3.9	6.1	8.2	9.0
65°	0.7	2.1	3.6	5.7	8.2	8.6



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.7	1.8	3.6	5.4	7.9	8.2
70°	1.1	1.8	3.2	5.4	7.5	7.9
72.5°	1.1	1.8	3.2	4.7	6.8	7.5
75°	1.1	1.8	2.9	4.3	6.4	6.8
77.5°	1.1	1.8	2.5	3.9	5.7	6.1
80°	1.4	1.8	2.1	3.2	5.0	5.4
82.5°	1.4	1.8	1.8	2.5	3.9	4.3
85°	1.1	1.4	1.4	1.8	2.5	2.9
87.5°	1.1	1.4	1.1	0.7	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)