

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: P1324961

Luminaire Tested: LDSQA3D05R35W2N902765DE010 3LSQCA45R 1MB_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1324961
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D05R35W2N902765DE010 3LSQCA45R 1MB_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R35 optic, 4000K CCT AND, 90CRI ,
3LSQCA45R 1MB TRIM
Light Source: -
Ballast/Driver: -

Summary

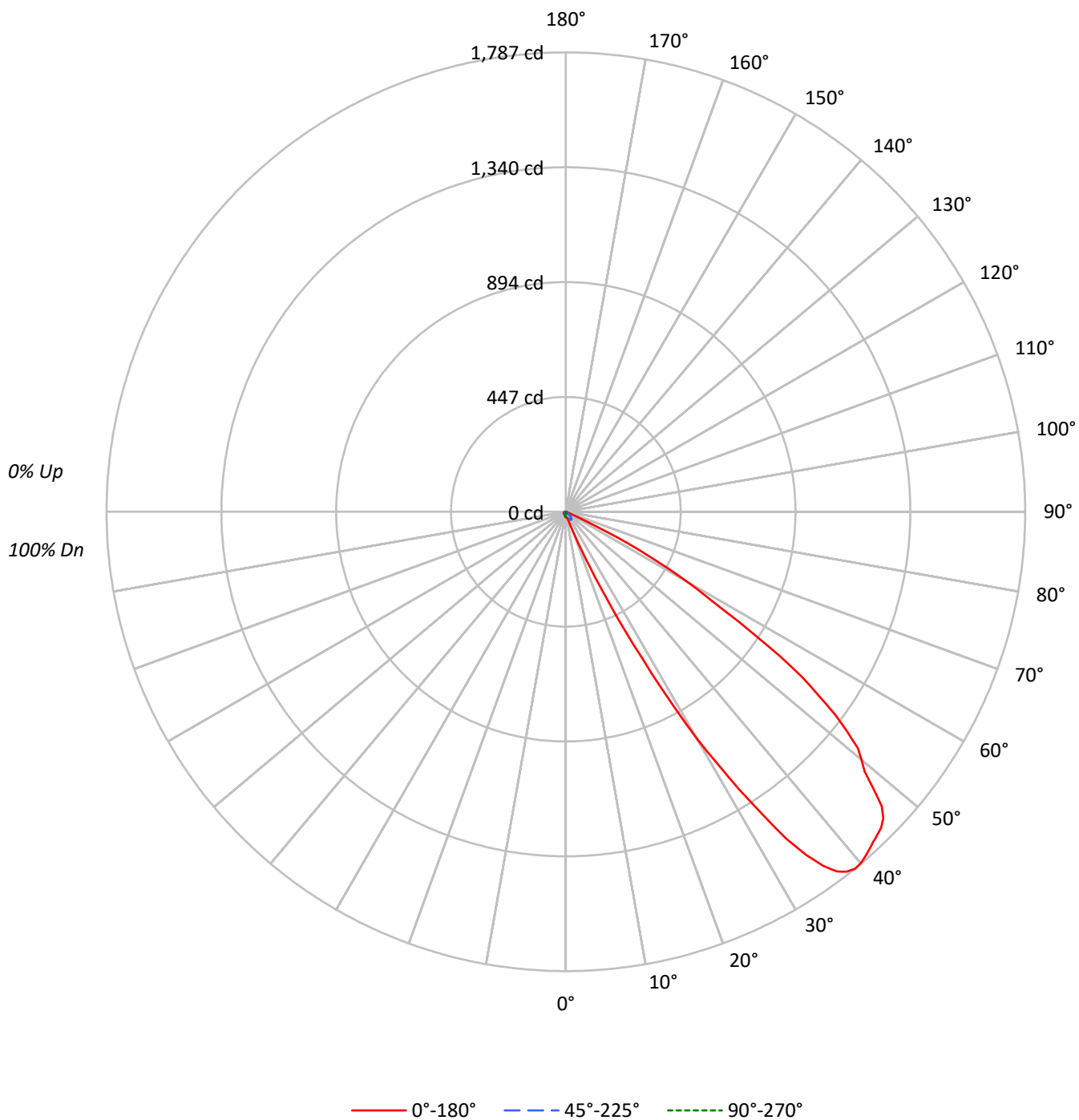
Lumens per Lamp: N/A
Luminaire Lumens: 444.9 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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	102	102	100
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	89	89	87
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	75	75	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	63	63	61
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	52	52	50
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	44	44	42
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	37	37	35
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	31	31	29
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26	26	26	24
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	22	22	20
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19	19	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3531	3531	3531	3531	3531
5°	3821	3752	3475	3129	3060
10°	4005	3655	3095	2676	2676
15°	5723	3584	2514	2300	2371
20°	14350	3830	1979	1979	2218
25°	66642	4884	1520	1824	2052
30°	202584	6622	1193	1670	2068
35°	342384	7695	1009	1598	2018
40°	401350	7576	809	1619	2158
45°	422673	5383	682	1754	2338
50°	402325	3242	643	1822	2572
55°	337133	1321	721	2042	3003
60°	188722	276	827	2342	3307
65°	32560	163	815	2608	3749
70°	604	201	1007	2820	4230
75°	532	266	1331	3194	4791
80°	397	397	1587	3570	5554
85°	0	790	3162	3952	6323

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 425661 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.8	0.4
10°-20°	5.2	1.2
20°-30°	27.3	6.1
30°-40°	117.9	26.5
40°-50°	168.2	37.8
50°-60°	104.2	23.4
60°-70°	15.8	3.6
70°-80°	3.0	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°	34.4	7.7
0°-40°	152.3	34.2
0°-60°	424.7	95.4
0°-90°	444.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	444.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	22	22	20	18	18	2
15°	32	20	14	13	13	12
25°	351	26	8	10	11	210
35°	1628	37	5	8	10	978
45°	1735	22	3	7	10	1311
55°	1123	4	2	7	10	956
65°	80	0	2	6	9	163
75°	1	0	2	5	7	1
85°	0	0	2	2	3	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
2.5°	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	20.5	20.1
5°	22.1	22.1	21.7	21.7	21.7	21.7	21.7	21.7	20.9	20.1	18.9
7.5°	22.5	22.5	22.1	22.1	22.1	22.1	21.7	21.3	20.5	18.9	17.7
10°	22.9	22.9	22.9	22.9	22.5	22.1	21.7	20.9	19.7	17.7	16.5
12.5°	25.7	25.7	25.3	24.5	23.7	22.9	22.1	20.5	18.1	16.1	14.9
15°	32.1	31.7	30.9	29.7	28.1	26.1	24.5	20.1	16.5	14.1	13.3
17.5°	45.0	44.2	43.0	39.0	35.4	31.7	28.5	20.1	14.9	12.5	11.6
20°	78.3	78.7	70.3	60.7	52.6	43.8	35.8	20.9	13.3	10.8	10.4
22.5°	163.5	157.1	137.0	113.7	86.8	67.1	50.6	22.9	11.6	9.2	9.2
25°	350.7	326.2	277.6	209.7	147.8	104.8	73.5	25.7	10.4	8.0	8.4
27.5°	640.3	618.2	520.6	392.1	260.3	158.3	99.6	29.3	9.2	6.8	7.6
30°	1018.7	957.7	830.3	642.7	435.0	242.2	133.8	33.3	7.6	6.0	7.2
31°	1136.8	1108.7	953.7	743.6	509.8	287.6	148.2	34.5	7.2	6.0	6.8
32°	1277.0	1227.2	1088.2	854.0	585.7	328.2	165.5	35.8	6.8	5.2	6.8
33°	1402.4	1354.2	1185.0	951.2	662.4	374.4	184.0	36.2	6.0	5.2	6.4
34°	1534.1	1468.2	1300.7	1052.9	741.2	424.2	200.9	36.6	5.6	4.8	6.4
35°	1628.5	1562.6	1400.4	1133.2	809.0	468.4	220.1	36.6	5.2	4.8	6.0
36°	1701.6	1643.8	1486.3	1216.0	876.5	508.2	235.4	36.6	4.4	4.4	6.0
37°	1751.8	1696.8	1544.2	1287.1	927.9	543.5	249.1	36.6	4.0	4.4	6.0
38°	1776.4	1730.6	1600.0	1338.9	977.8	571.2	259.9	35.8	3.6	4.0	5.6
39°	1786.8	1749.4	1634.1	1382.7	1015.1	595.3	267.9	34.9	3.2	4.0	5.6
40°	1785.2	1752.7	1653.4	1412.8	1045.2	611.8	272.4	33.7	2.8	3.6	5.6
41°	1776.0	1747.8	1663.5	1438.5	1063.3	623.0	273.6	32.5	2.4	3.6	5.2
42°	1765.5	1739.8	1666.7	1452.2	1075.0	626.7	270.3	30.9	2.4	3.2	5.2
43°	1754.7	1731.0	1666.7	1456.6	1077.8	624.3	265.1	28.1	2.0	3.2	5.2
44°	1745.8	1723.3	1661.5	1455.4	1071.8	615.0	255.5	24.9	1.6	3.2	5.2
45°	1735.4	1713.3	1654.6	1447.8	1060.1	599.3	243.4	22.1	1.2	2.8	5.2
46°	1716.9	1699.6	1642.6	1432.1	1041.6	577.7	228.2	20.1	0.8	2.8	4.8
47°	1681.1	1666.3	1619.3	1408.8	1017.1	551.9	212.5	18.1	0.8	2.8	4.8
48°	1609.2	1608.8	1572.7	1365.4	978.2	519.8	196.0	16.1	0.8	2.8	4.8
49°	1539.7	1532.5	1487.5	1289.1	922.3	481.2	178.8	14.5	0.4	2.8	4.8
50°	1501.6	1485.9	1412.0	1199.1	850.8	427.8	160.3	12.1	0.4	2.4	4.8
51°	1461.8	1439.3	1352.1	1118.0	765.7	376.4	140.2	9.6	0.4	2.4	4.4
52°	1389.9	1368.6	1271.0	1040.4	682.9	323.8	120.9	8.0	0.4	2.4	4.8
53°	1312.4	1281.8	1175.8	955.3	610.2	277.2	101.2	6.8	0.4	2.4	4.4
54°	1214.8	1201.1	1079.4	850.8	525.0	232.2	83.2	5.6	0.4	2.4	4.4
55°	1122.8	1102.7	976.1	744.0	447.9	190.4	69.5	4.4	0.4	2.4	4.4
56°	1005.5	975.3	856.8	645.9	369.6	153.5	58.6	3.6	0.4	2.4	4.4
57°	865.7	833.5	739.9	537.1	290.0	116.9	49.0	2.8	0.4	2.4	4.4
58°	732.3	704.6	604.2	414.6	218.5	81.1	40.6	2.0	0.4	2.0	4.4
59°	632.7	602.2	502.5	319.0	151.8	59.9	30.5	1.6	0.4	2.4	4.4
60°	547.9	508.6	404.5	247.1	108.5	43.0	22.5	0.8	0.8	2.4	4.4
62.5°	315.7	278.8	193.2	100.4	44.6	22.1	10.8	0.4	0.8	2.4	4.4
65°	79.9	71.1	46.2	21.7	12.5	7.6	4.0	0.4	0.8	2.0	4.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	2.8	2.8	2.8	2.4	2.0	1.6	0.8	0.4	0.8	2.0	4.0
70°	1.2	1.2	1.2	0.8	0.8	0.4	0.4	0.4	0.8	2.0	3.6
72.5°	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	1.2	2.0	3.2
75°	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	1.2	2.0	3.2
77.5°	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	1.2	1.6	2.8
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2	1.6	2.4
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2	1.6	2.0
85°	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.4	1.2	1.6	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.2	1.6	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):

	135°	157.5°	180°
0°	20.5	20.5	20.5
2.5°	19.3	19.3	19.3
5°	18.1	18.1	17.7
7.5°	16.9	16.5	16.5
10°	15.3	15.3	15.3
12.5°	14.1	14.1	14.1
15°	12.9	13.3	13.3
17.5°	11.6	12.5	12.5
20°	10.8	11.6	12.1
22.5°	10.0	10.8	11.2
25°	9.6	10.4	10.8
27.5°	8.8	10.0	10.8
30°	8.4	9.6	10.4
31°	8.4	9.6	10.0
32°	8.0	9.6	10.0
33°	8.0	9.6	10.0
34°	8.0	9.2	10.0
35°	7.6	9.2	9.6
36°	7.6	9.2	9.6
37°	7.6	9.2	10.0
38°	7.6	9.2	9.6
39°	7.2	9.2	9.6
40°	7.2	9.2	9.6
41°	7.2	9.2	9.6
42°	7.2	9.2	9.6
43°	7.2	9.2	9.6
44°	7.2	8.8	9.6
45°	7.2	8.8	9.6
46°	7.2	9.2	9.6
47°	7.2	9.2	10.0
48°	7.2	8.8	9.6
49°	6.8	8.8	9.6
50°	6.8	8.8	9.6
51°	6.8	9.2	10.0
52°	6.8	9.2	10.0
53°	6.8	9.2	10.0
54°	6.8	9.2	9.6
55°	6.8	9.2	10.0
56°	6.8	9.2	9.6
57°	6.8	9.2	9.6
58°	6.8	8.8	9.6
59°	6.8	8.8	9.6
60°	6.8	8.8	9.6
62.5°	6.4	8.8	9.6
65°	6.4	8.4	9.2



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	6.0	8.4	8.8
70°	5.6	8.0	8.4
72.5°	5.2	7.6	8.0
75°	4.8	6.8	7.2
77.5°	4.0	6.0	6.8
80°	3.6	5.2	5.6
82.5°	2.8	4.4	4.8
85°	2.0	3.2	3.2
87.5°	0.8	1.6	1.6
90°	0.0	0.0	0.0

(END OF REPORT)