

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: P1324875

Luminaire Tested: LDSQA3D05R35W2N902750DE010 3LSQCA45R 1MMS_2700K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1324875
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: LDSQA3D05R35W2N902750DE010 3LSQCA45R 1MMS_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R35 optic, 2700K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

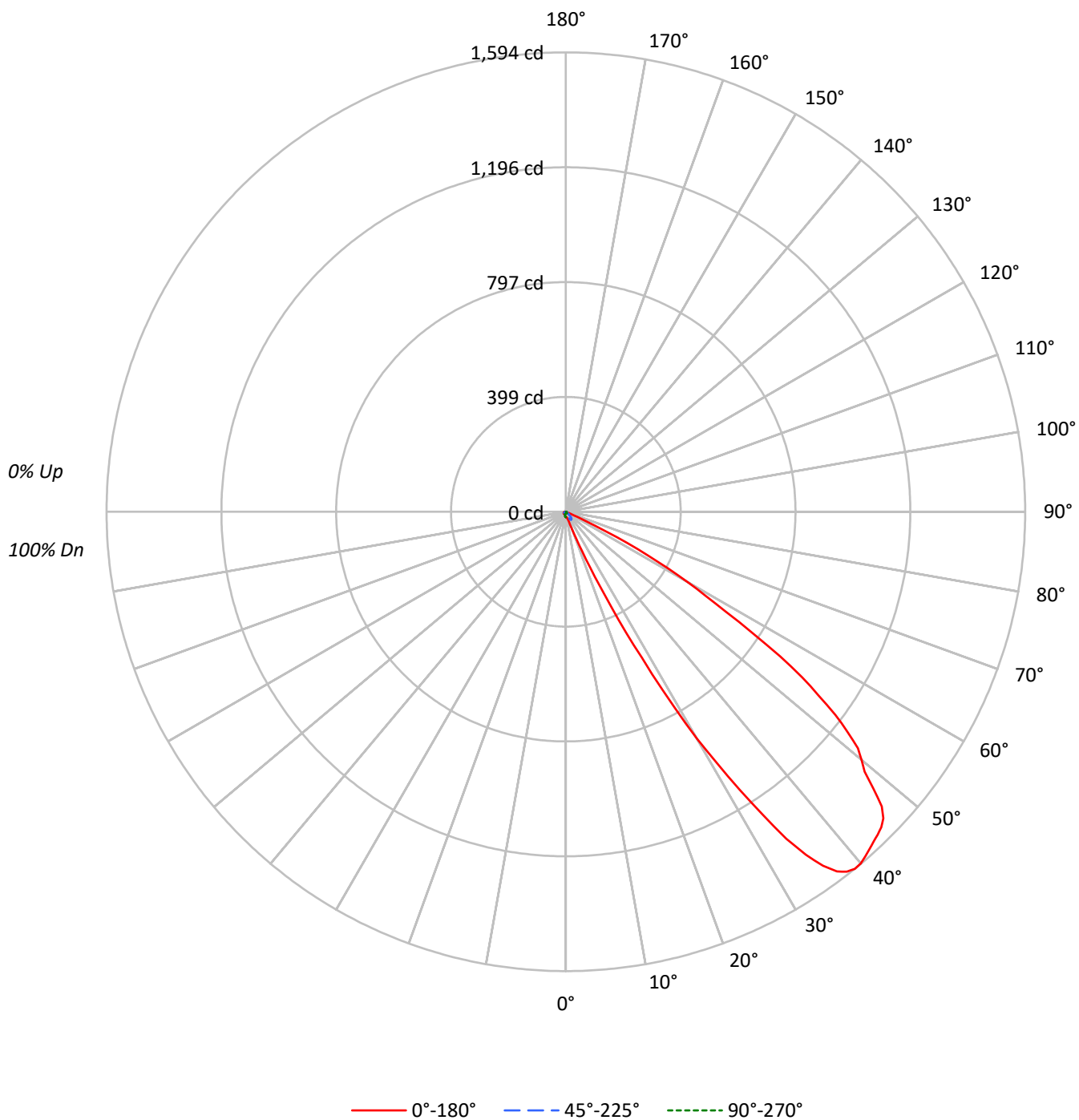
Lumens per Lamp: N/A
Luminaire Lumens: 397.0 lumens
Efficiency: N/A
Efficacy: 67.3 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87	87
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61	61
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50	50
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42	42
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35	35
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29	29
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26	24	24
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	20	20
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19	17	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3152	3152	3152	3152	3152
5°	3406	3354	3095	2783	2732
10°	3568	3253	2763	2378	2378
15°	5117	3192	2229	2050	2104
20°	12811	3409	1778	1778	1979
25°	59459	4352	1368	1634	1843
30°	180729	5906	1074	1491	1849
35°	305465	6854	904	1430	1808
40°	358049	6767	719	1461	1933
45°	377079	4798	609	1583	2095
50°	358920	2894	589	1634	2304
55°	300771	1171	661	1832	2702
60°	168365	241	758	2101	2962
65°	29056	163	734	2323	3342
70°	554	201	906	2518	3777
75°	466	266	1198	2861	4325
80°	397	397	1389	3174	4959
85°	0	790	2766	3557	5730

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 379746 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.6	0.4
10°-20°	4.7	1.2
20°-30°	24.4	6.1
30°-40°	105.2	26.5
40°-50°	150.1	37.8
50°-60°	92.9	23.4
60°-70°	14.1	3.6
70°-80°	2.7	0.7
80°-90°	1.3	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°	30.7	7.7
0°-40°	135.9	34.2
0°-60°	378.9	95.4
0°-90°	397.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	397.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	20	19	18	16	16	2
15°	29	18	12	12	12	10
25°	313	23	7	9	10	187
35°	1453	33	4	7	9	872
45°	1548	20	2	6	9	1170
55°	1002	4	2	6	9	853
65°	71	0	2	6	8	146
75°	1	0	2	4	6	1
85°	0	0	1	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°	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
2.5°	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	18.3	17.9
5°	19.7	19.7	19.4	19.4	19.4	19.4	19.4	19.4	18.6	17.9	16.8
7.5°	20.1	20.1	19.7	19.7	19.7	19.7	19.4	19.0	18.3	16.8	15.8
10°	20.4	20.4	20.4	20.4	20.1	19.7	19.4	18.6	17.6	15.8	14.7
12.5°	22.9	22.9	22.6	21.9	21.1	20.4	19.7	18.3	16.1	14.3	13.3
15°	28.7	28.3	27.6	26.5	25.1	23.3	21.9	17.9	14.7	12.5	11.8
17.5°	40.1	39.4	38.3	34.8	31.5	28.3	25.4	17.9	13.3	11.1	10.4
20°	69.9	70.2	62.7	54.1	46.9	39.1	31.9	18.6	11.8	9.7	9.3
22.5°	145.9	140.1	122.2	101.4	77.4	59.8	45.2	20.4	10.4	8.2	8.2
25°	312.9	291.0	247.6	187.1	131.9	93.5	65.6	22.9	9.3	7.2	7.5
27.5°	571.3	551.5	464.5	349.8	232.2	141.2	88.9	26.2	8.2	6.1	6.8
30°	908.8	854.4	740.8	573.4	388.1	216.1	119.3	29.7	6.8	5.4	6.5
31°	1014.2	989.1	850.8	663.4	454.8	256.6	132.2	30.8	6.5	5.4	6.1
32°	1139.3	1094.8	970.8	761.9	522.5	292.8	147.7	31.9	6.1	4.7	6.1
33°	1251.1	1208.1	1057.2	848.6	591.0	334.0	164.1	32.3	5.4	4.7	5.7
34°	1368.6	1309.9	1160.4	939.3	661.2	378.4	179.2	32.6	5.0	4.3	5.7
35°	1452.9	1394.1	1249.3	1011.0	721.8	417.9	196.4	32.6	4.7	4.3	5.4
36°	1518.1	1466.5	1326.0	1084.8	782.0	453.3	210.0	32.6	3.9	3.9	5.4
37°	1562.9	1513.8	1377.6	1148.2	827.9	484.9	222.2	32.6	3.6	3.9	5.4
38°	1584.7	1543.9	1427.4	1194.5	872.3	509.6	231.9	31.9	3.2	3.6	5.0
39°	1594.1	1560.7	1457.9	1233.5	905.6	531.1	239.0	31.2	2.9	3.6	5.0
40°	1592.6	1563.6	1475.1	1260.4	932.5	545.8	243.0	30.1	2.5	3.2	5.0
41°	1584.4	1559.3	1484.0	1283.3	948.6	555.8	244.1	29.0	2.2	3.2	4.7
42°	1575.1	1552.1	1486.9	1295.5	959.0	559.1	241.2	27.6	2.2	2.9	4.7
43°	1565.4	1544.2	1486.9	1299.5	961.5	556.9	236.5	25.1	1.8	2.9	4.7
44°	1557.5	1537.4	1482.2	1298.4	956.2	548.7	227.9	22.2	1.4	2.9	4.7
45°	1548.2	1528.5	1476.2	1291.6	945.8	534.7	217.2	19.7	1.1	2.5	4.7
46°	1531.7	1516.3	1465.4	1277.6	929.3	515.3	203.6	17.9	0.7	2.5	4.3
47°	1499.8	1486.5	1444.6	1256.8	907.4	492.4	189.6	16.1	0.7	2.5	4.3
48°	1435.7	1435.3	1403.0	1218.1	872.6	463.7	174.9	14.3	0.7	2.5	4.3
49°	1373.7	1367.2	1327.1	1150.0	822.8	429.3	159.5	12.9	0.4	2.5	4.3
50°	1339.6	1325.6	1259.7	1069.8	759.0	381.7	143.0	10.8	0.4	2.2	4.3
51°	1304.1	1284.1	1206.3	997.4	683.1	335.8	125.1	8.6	0.4	2.2	3.9
52°	1240.0	1221.0	1133.9	928.2	609.2	288.9	107.9	7.2	0.4	2.2	4.3
53°	1170.8	1143.6	1049.0	852.2	544.4	247.3	90.3	6.1	0.4	2.2	3.9
54°	1083.7	1071.5	963.0	759.0	468.4	207.1	74.2	5.0	0.4	2.2	3.9
55°	1001.7	983.7	870.9	663.7	399.6	169.9	62.0	3.9	0.4	2.2	3.9
56°	897.0	870.1	764.4	576.3	329.7	136.9	52.3	3.2	0.4	2.2	3.9
57°	772.3	743.6	660.1	479.2	258.7	104.3	43.7	2.5	0.4	2.2	3.9
58°	653.3	628.6	539.0	369.8	195.0	72.4	36.2	1.8	0.4	1.8	3.9
59°	564.4	537.2	448.3	284.6	135.5	53.4	27.2	1.4	0.4	2.2	3.9
60°	488.8	453.7	360.9	220.4	96.8	38.3	20.1	0.7	0.7	2.2	3.9
62.5°	281.7	248.7	172.4	89.6	39.8	19.7	9.7	0.4	0.7	2.2	3.9
65°	71.3	63.4	41.2	19.4	11.1	6.8	3.6	0.4	0.7	1.8	3.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	2.5	2.5	2.5	2.2	1.8	1.4	0.7	0.4	0.7	1.8	3.6
70°	1.1	1.1	1.1	0.7	0.7	0.4	0.4	0.4	0.7	1.8	3.2
72.5°	0.7	0.7	0.7	0.7	0.4	0.4	0.4	0.4	1.1	1.8	2.9
75°	0.7	0.7	0.7	0.7	0.4	0.4	0.4	0.4	1.1	1.8	2.9
77.5°	0.7	0.7	0.4	0.4	0.4	0.4	0.4	0.4	1.1	1.4	2.5
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1	1.4	2.2
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1	1.4	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.4	1.1	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.1	1.4	1.1
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°	18.3	18.3	18.3
2.5°	17.2	17.2	17.2
5°	16.1	16.1	15.8
7.5°	15.1	14.7	14.7
10°	13.6	13.6	13.6
12.5°	12.5	12.5	12.5
15°	11.5	11.8	11.8
17.5°	10.4	11.1	11.1
20°	9.7	10.4	10.8
22.5°	9.0	9.7	10.0
25°	8.6	9.3	9.7
27.5°	7.9	9.0	9.7
30°	7.5	8.6	9.3
31°	7.5	8.6	9.0
32°	7.2	8.6	9.0
33°	7.2	8.6	9.0
34°	7.2	8.2	9.0
35°	6.8	8.2	8.6
36°	6.8	8.2	8.6
37°	6.8	8.2	9.0
38°	6.8	8.2	8.6
39°	6.5	8.2	8.6
40°	6.5	8.2	8.6
41°	6.5	8.2	8.6
42°	6.5	8.2	8.6
43°	6.5	8.2	8.6
44°	6.5	7.9	8.6
45°	6.5	7.9	8.6
46°	6.5	8.2	8.6
47°	6.5	8.2	9.0
48°	6.5	7.9	8.6
49°	6.1	7.9	8.6
50°	6.1	7.9	8.6
51°	6.1	8.2	9.0
52°	6.1	8.2	9.0
53°	6.1	8.2	9.0
54°	6.1	8.2	8.6
55°	6.1	8.2	9.0
56°	6.1	8.2	8.6
57°	6.1	8.2	8.6
58°	6.1	7.9	8.6
59°	6.1	7.9	8.6
60°	6.1	7.9	8.6
62.5°	5.7	7.9	8.6
65°	5.7	7.5	8.2



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	5.4	7.5	7.9
70°	5.0	7.2	7.5
72.5°	4.7	6.8	7.2
75°	4.3	6.1	6.5
77.5°	3.6	5.4	6.1
80°	3.2	4.7	5.0
82.5°	2.5	3.9	4.3
85°	1.8	2.9	2.9
87.5°	0.7	1.4	1.4
90°	0.0	0.0	0.0

(END OF REPORT)