

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: P1325062

Luminaire Tested: LDSQA3D05R40W2N902750DE010 3LSQCA45R 1MMS_2700K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325062
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: LDSQA3D05R40W2N902750DE010 3LSQCA45R 1MMS_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R40 optic, 2700K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

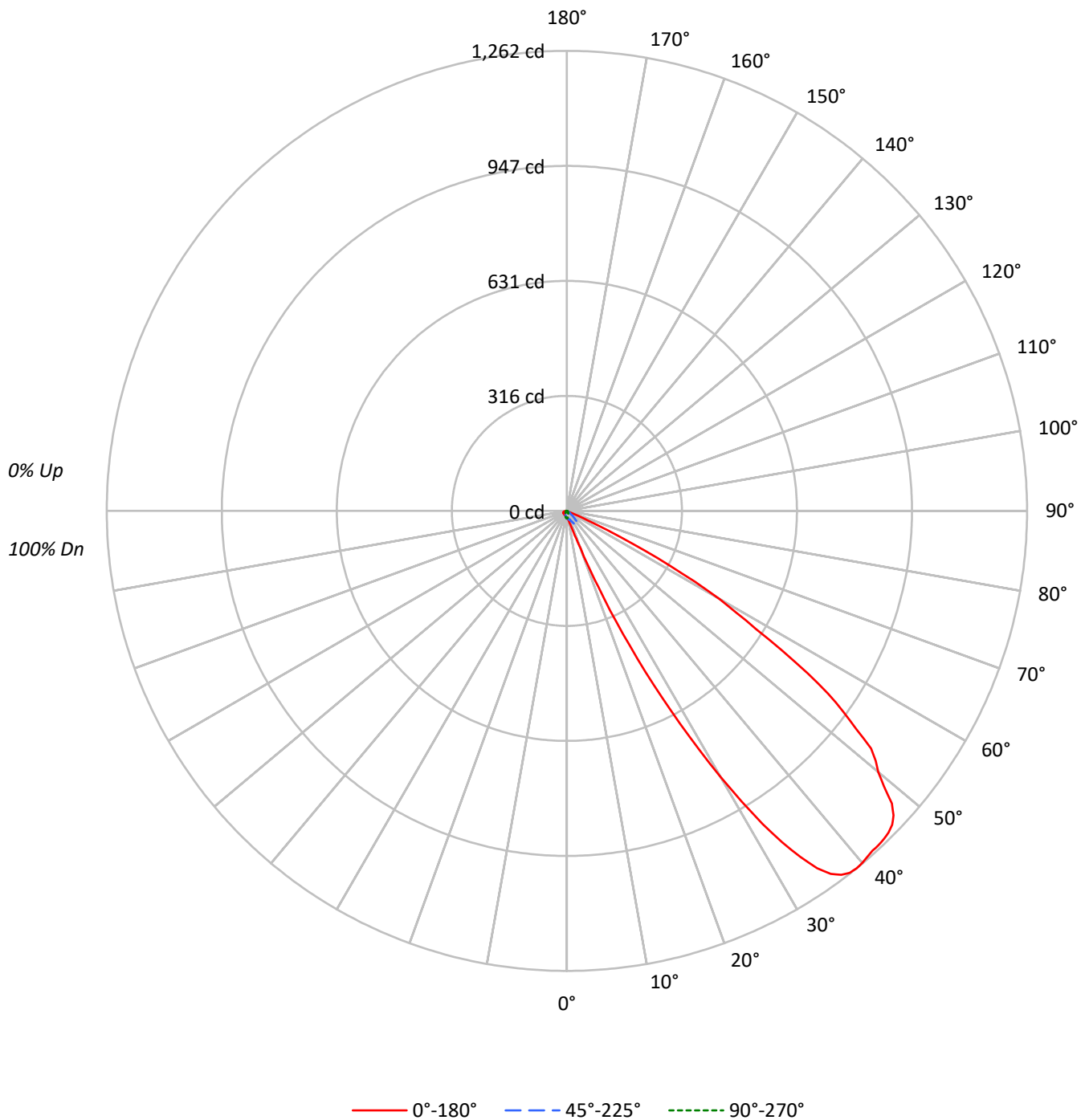
Lumens per Lamp: N/A
Luminaire Lumens: 390.0 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Spacing Criteria (0/90/45): 3.99 / 0.73 / 1.54
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	100		
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72		
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60		
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50		
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	42		
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35		
7	62	48	39	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29		
8	57	42	33	27	55	42	33	27	40	32	27	39	32	27	38	31	26	24		
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	20	30	24	19	18		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3462	3462	3462	3462	3462
5°	3838	3717	3406	3095	3025
10°	4634	3952	3130	2816	2763
15°	7595	4279	2674	2496	2550
20°	20087	5058	2236	2236	2438
25°	77455	6271	1767	2033	2375
30°	167087	8332	1432	1989	2347
35°	251516	9860	1198	1955	2418
40°	283364	9915	1057	2023	2585
45°	303841	7672	950	2095	2801
50°	298636	4796	857	2197	3081
55°	262728	2372	871	2462	3453
60°	166298	482	999	2721	3823
65°	34027	163	1019	2934	4238
70°	705	201	1057	3223	4884
75°	732	466	1198	3593	5456
80°	694	397	1389	3868	6347
85°	790	790	2766	4150	7114

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47°

Luminance: 309320 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.9	0.5
10°-20°	6.2	1.6
20°-30°	30.3	7.8
30°-40°	98.5	25.3
40°-50°	135.8	34.8
50°-60°	94.6	24.3
60°-70°	17.9	4.6
70°-80°	3.3	0.8
80°-90°	1.5	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°	38.3	9.8
0°-40°	136.9	35.1
0°-60°	367.3	94.2
0°-90°	390.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	390.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	22	22	20	18	18	2
15°	43	24	15	14	14	15
25°	408	33	9	11	12	210
35°	1196	47	6	9	12	723
45°	1248	32	4	9	12	949
55°	875	8	3	8	12	748
65°	84	0	2	7	10	148
75°	1	1	2	5	8	1
85°	0	0	1	2	4	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°	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1
2.5°	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.4	20.1
5°	22.2	22.2	22.2	22.2	21.8	21.8	21.8	21.5	21.5	20.8	19.7
7.5°	23.6	23.6	23.6	23.6	23.3	22.9	22.6	22.6	22.2	20.4	19.0
10°	26.5	26.5	26.1	25.8	25.4	24.7	24.4	23.6	22.6	20.1	17.9
12.5°	32.2	31.5	31.2	30.4	29.4	27.9	26.5	25.4	22.9	19.3	16.8
15°	42.6	41.9	40.5	38.3	36.2	33.3	30.8	28.3	24.0	18.3	15.0
17.5°	60.9	58.7	56.6	53.0	47.6	42.6	37.2	32.6	25.4	17.2	13.6
20°	109.6	108.2	95.3	85.2	69.1	57.7	46.9	39.0	27.6	16.1	12.2
22.5°	226.0	211.0	189.8	155.4	121.1	89.2	64.8	49.1	29.7	14.7	10.7
25°	407.6	383.9	338.5	272.2	200.9	142.2	93.8	64.1	33.0	13.3	9.3
27.5°	617.1	593.1	522.6	431.2	314.8	214.5	134.0	84.9	37.2	11.8	8.2
30°	840.2	819.8	730.3	603.9	443.8	300.5	179.4	106.0	41.9	10.4	7.2
31°	930.1	904.0	807.3	672.6	504.3	336.0	197.7	115.0	43.7	10.0	6.8
32°	1012.9	983.2	882.9	738.5	553.4	374.3	217.8	122.8	45.1	9.3	6.4
33°	1084.2	1049.4	952.7	800.8	607.4	410.1	238.5	130.4	46.2	8.6	6.1
34°	1144.7	1114.6	1010.7	863.5	655.4	444.5	259.0	137.9	46.9	8.2	5.7
35°	1196.3	1169.0	1066.2	911.2	702.4	477.8	277.6	145.1	46.9	7.5	5.7
36°	1231.0	1207.4	1114.2	959.9	741.8	506.1	293.3	151.5	46.9	6.8	5.4
37°	1250.0	1227.1	1145.8	1000.0	780.4	534.0	307.7	156.5	46.6	6.4	5.0
38°	1259.7	1239.6	1169.0	1032.6	807.3	554.1	320.2	160.5	46.2	5.7	5.0
39°	1262.2	1245.3	1183.7	1056.2	833.4	574.1	329.1	162.6	45.1	5.4	4.7
40°	1260.4	1245.7	1191.6	1077.3	853.5	589.9	335.6	163.3	44.1	4.7	4.7
41°	1256.8	1245.3	1197.3	1092.0	869.6	599.9	338.1	161.9	42.6	3.9	4.3
42°	1253.6	1241.0	1199.8	1102.1	880.7	604.9	337.7	159.0	40.5	3.6	4.3
43°	1253.6	1239.2	1200.2	1108.5	886.1	605.3	333.4	153.7	37.6	3.2	3.9
44°	1251.4	1238.2	1202.0	1112.8	887.5	602.1	326.6	147.9	34.4	2.9	3.9
45°	1247.5	1233.5	1201.6	1113.2	885.0	594.2	315.5	140.4	31.5	2.1	3.9
46°	1240.0	1227.4	1198.4	1110.7	877.5	582.7	302.3	132.9	28.3	1.8	3.6
47°	1224.9	1215.2	1189.8	1102.1	866.0	565.9	286.5	124.3	25.8	1.4	3.6
48°	1199.1	1192.3	1175.1	1083.1	844.2	545.1	269.7	115.0	23.3	1.4	3.6
49°	1151.8	1146.5	1136.4	1052.6	816.2	519.7	251.4	104.6	20.8	1.1	3.6
50°	1114.6	1108.9	1088.5	1001.4	776.1	487.5	231.4	94.2	17.9	0.7	3.2
51°	1089.9	1080.6	1048.3	942.0	717.8	444.5	209.5	83.8	15.0	0.7	3.2
52°	1058.7	1044.8	1004.6	888.6	664.4	401.5	185.9	73.4	13.3	0.7	3.2
53°	993.5	988.5	948.8	831.3	611.0	360.3	161.5	64.8	11.5	0.7	3.2
54°	936.6	929.1	875.0	751.8	553.0	314.5	136.5	57.3	9.7	0.7	3.2
55°	875.0	860.3	812.3	684.8	484.9	272.2	112.5	49.4	7.9	0.7	2.9
56°	797.3	784.4	732.8	613.2	422.3	229.2	94.2	40.5	6.1	0.7	2.9
57°	702.7	690.9	651.1	525.1	357.1	187.3	76.6	32.6	4.7	0.7	2.9
58°	611.4	598.1	552.6	440.5	288.3	148.6	64.1	26.5	3.6	0.7	2.9
59°	541.2	523.3	464.5	370.0	225.6	112.8	50.9	21.1	2.5	0.7	2.9
60°	482.8	468.1	407.2	308.0	176.9	83.1	37.6	16.1	1.4	0.7	2.9
62.5°	279.7	275.8	221.0	158.7	83.5	38.7	18.6	7.5	0.7	1.1	2.9
65°	83.5	72.7	56.6	33.7	21.5	12.9	6.8	2.5	0.4	1.1	2.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
67.5°	2.5	2.5	2.5	2.5	2.5	2.5	1.4	0.7	0.4	1.1	2.5
70°	1.4	1.1	1.1	1.1	1.1	0.7	0.7	0.4	0.4	1.1	2.1
72.5°	1.1	1.1	1.1	1.1	0.7	0.7	0.7	0.4	0.7	1.1	1.8
75°	1.1	0.7	0.7	0.7	0.7	0.4	0.4	0.4	0.7	1.1	1.8
77.5°	0.7	0.7	0.7	0.7	0.4	0.4	0.4	0.4	0.7	1.1	1.8
80°	0.7	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1	1.4
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1	1.4
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	1.1	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):

	112.5°	135°	157.5°	180°
0°	20.1	20.1	20.1	20.1
2.5°	19.3	19.0	18.6	18.6
5°	18.6	17.9	17.9	17.5
7.5°	17.5	16.8	16.8	16.8
10°	16.5	16.1	16.1	15.8
12.5°	15.0	15.0	15.0	15.0
15°	14.0	14.0	14.3	14.3
17.5°	12.5	12.9	13.6	14.0
20°	11.5	12.2	12.9	13.3
22.5°	10.7	11.5	12.5	12.9
25°	9.7	10.7	12.2	12.5
27.5°	9.0	10.4	11.5	12.2
30°	8.2	10.0	11.1	11.8
31°	8.2	9.7	11.1	11.8
32°	7.9	9.3	11.1	11.5
33°	7.9	9.3	11.1	11.5
34°	7.5	9.3	10.7	11.5
35°	7.5	9.3	10.7	11.5
36°	7.2	9.0	10.7	11.5
37°	7.2	9.0	10.7	11.5
38°	6.8	9.0	10.7	11.5
39°	6.8	9.0	10.7	11.5
40°	6.8	9.0	10.7	11.5
41°	6.4	9.0	10.7	11.5
42°	6.4	9.0	10.7	11.5
43°	6.4	8.6	10.7	11.5
44°	6.4	8.6	10.7	11.5
45°	6.1	8.6	10.7	11.5
46°	6.1	8.6	10.7	11.5
47°	6.1	8.6	10.7	11.5
48°	6.1	8.6	10.7	11.5
49°	6.1	8.6	10.7	11.5
50°	5.7	8.2	10.7	11.5
51°	5.7	8.2	10.7	11.5
52°	5.7	8.2	10.7	11.5
53°	5.7	8.2	10.7	11.5
54°	5.4	8.2	10.7	11.5
55°	5.4	8.2	10.7	11.5
56°	5.4	8.2	10.7	11.1
57°	5.4	8.2	10.4	11.1
58°	5.4	7.9	10.4	11.1
59°	5.4	7.9	10.4	11.1
60°	5.4	7.9	10.4	11.1
62.5°	5.0	7.9	10.0	10.7
65°	4.7	7.2	10.0	10.4



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
67.5°	4.7	6.8	9.3	10.0
70°	4.3	6.4	9.0	9.7
72.5°	3.6	6.1	8.2	9.0
75°	3.2	5.4	7.5	8.2
77.5°	2.9	4.7	6.8	7.2
80°	2.5	3.9	5.7	6.4
82.5°	1.8	2.9	4.7	5.0
85°	1.4	2.1	3.2	3.6
87.5°	1.1	1.1	1.8	1.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)