

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: P1326872

Luminaire Tested: LDSQA3D09R50W2N902750DE010 3LSQCA45R 1MW_3000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1326872
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R50W2N902750DE010 3LSQCA45R 1MW_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R50 optic, 3000K CCT AND, 90CRI ,
3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

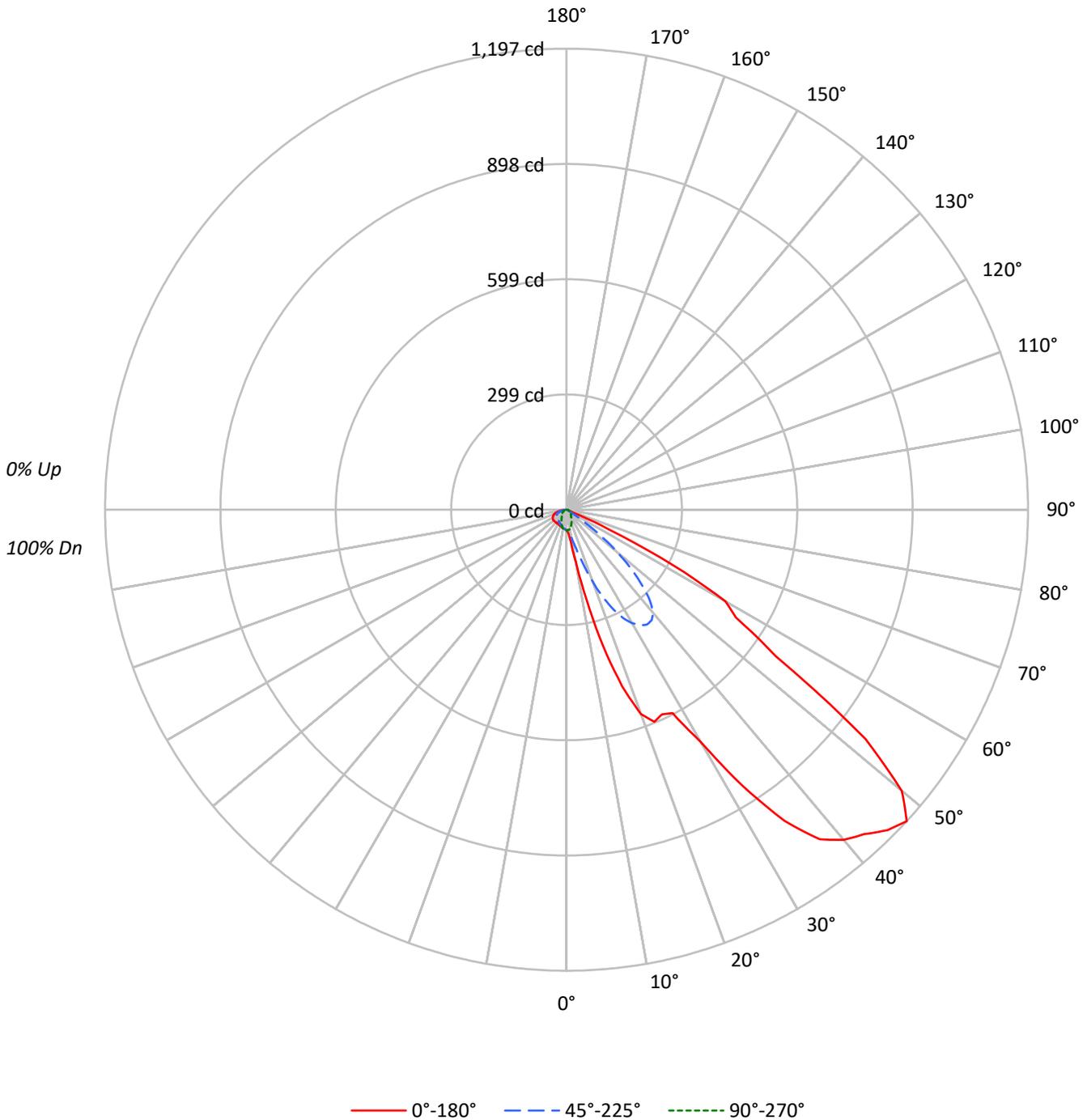
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 675.0 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	23
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9231	9231	9231	9231	9231
5°	10978	10286	9180	8765	8661
10°	23661	12749	8761	8464	8569
15°	65489	20897	7899	8113	8416
20°	103551	36655	6836	7808	8229
25°	111337	53835	5872	7525	8304
30°	138212	67594	5111	7418	8571
35°	207407	76487	4415	7485	9062
40°	251529	78642	3934	7734	9577
45°	286548	67442	3824	8232	10497
50°	304128	46540	3912	8895	11709
55°	198683	18736	3843	9638	12941
60°	163853	3203	3823	10437	14260
65°	49431	1671	3545	11166	15689
70°	2065	1762	3525	11430	17020
75°	1930	1930	3460	11645	18632
80°	1686	1686	3471	11604	19042
85°	1186	2371	4545	11461	18377

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 305116 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.6	0.8
10°-20°	32.0	4.7
20°-30°	82.2	12.2
30°-40°	147.6	21.9
40°-50°	197.1	29.2
50°-60°	150.1	22.2
60°-70°	45.6	6.8
70°-80°	10.9	1.6
80°-90°	3.9	0.6
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°	119.7	17.7
0°-40°	267.3	39.6
0°-60°	614.6	91.1
0°-90°	675.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	675.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	54	54	54	54	54	
5°	64	60	53	51	50	8
15°	367	117	44	46	47	108
25°	586	283	31	40	44	280
35°	986	364	21	36	43	606
45°	1176	277	16	34	43	900
55°	662	62	13	32	43	658
65°	121	4	9	27	38	168
75°	3	3	5	18	28	3
85°	1	1	2	6	9	1
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°	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
2.5°	57.1	57.1	57.1	57.1	57.1	57.1	56.6	56.6	56.6	55.4	54.2
5°	63.5	64.1	63.5	63.5	62.4	62.4	61.2	61.2	59.5	56.0	53.1
7.5°	83.4	82.8	82.2	79.9	78.1	74.0	72.3	69.4	64.1	56.0	51.9
10°	135.3	131.8	129.4	124.2	113.1	106.1	96.8	87.5	72.9	56.0	50.1
12.5°	235.0	234.4	227.4	209.9	194.1	172.6	149.8	127.1	89.8	54.8	47.8
15°	367.3	362.1	352.1	331.7	303.8	269.9	229.1	188.9	117.2	53.1	44.3
17.5°	480.4	474.0	466.4	446.0	413.9	371.4	322.4	267.0	154.5	50.7	40.8
20°	565.0	560.9	554.5	538.1	507.8	469.3	414.5	347.5	200.0	47.8	37.3
22.5°	595.9	595.3	596.4	590.6	575.4	545.1	492.7	422.7	244.9	44.3	33.8
25°	585.9	585.4	592.9	600.5	604.0	591.8	551.5	483.3	283.3	41.4	30.9
27.5°	595.3	593.5	590.0	591.2	601.1	608.1	589.4	530.0	316.6	37.3	28.0
30°	695.0	685.1	669.3	642.5	622.7	620.9	612.8	566.7	339.9	33.2	25.7
32.5°	850.6	838.4	809.8	760.3	713.0	676.9	651.2	597.6	356.2	29.2	22.7
35°	986.5	977.7	944.5	895.5	827.9	760.3	713.6	643.1	363.8	25.7	21.0
37.5°	1078.6	1075.1	1042.4	990.0	921.2	841.3	779.5	689.7	362.1	21.6	19.2
40°	1118.8	1108.3	1080.9	1036.6	967.2	895.5	830.2	719.5	349.8	17.5	17.5
42.5°	1142.7	1131.1	1101.3	1059.4	991.1	914.8	836.1	706.6	320.7	14.0	16.9
45°	1176.5	1164.3	1125.2	1080.3	1011.5	922.9	813.3	661.1	276.9	10.5	15.7
47.5°	1196.9	1188.8	1159.6	1114.7	1031.4	911.3	760.8	618.6	228.5	8.2	15.2
50°	1135.1	1127.0	1105.4	1074.5	1018.5	872.2	714.8	549.8	173.7	6.4	14.6
52.5°	977.1	984.1	988.2	997.0	956.2	784.8	646.0	495.0	117.2	5.2	13.4
55°	661.7	672.2	683.9	718.9	766.7	698.5	573.7	427.9	62.4	5.2	12.8
57.5°	520.1	516.6	513.1	510.7	548.0	576.0	504.3	342.2	26.8	5.2	11.7
60°	475.7	465.3	458.3	460.0	478.7	467.6	399.4	223.3	9.3	5.2	11.1
62.5°	311.9	320.1	335.8	362.6	349.8	300.3	232.0	88.6	4.7	5.2	9.9
65°	121.3	117.2	121.3	128.8	111.4	82.8	51.9	15.7	4.1	4.7	8.7
67.5°	16.3	14.6	11.1	7.0	6.4	5.8	4.7	4.1	4.1	4.7	8.2
70°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	3.5	3.5	4.1	7.0
72.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.1	5.8
75°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.5	5.2
77.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.9	4.1
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.3	3.5
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.7	1.7	2.3	2.9
85°	0.6	1.2	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.7	2.3
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.7	1.7
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°	53.6	53.6	53.6	53.6
2.5°	53.1	51.9	51.9	51.9
5°	51.9	50.7	50.7	50.1
7.5°	50.1	49.6	49.6	49.6
10°	49.0	48.4	49.0	49.0
12.5°	46.6	47.2	47.8	47.8
15°	44.3	45.5	46.6	47.2
17.5°	42.0	44.3	45.5	46.1
20°	39.6	42.6	44.3	44.9
22.5°	37.9	40.8	43.1	44.3
25°	35.6	39.6	42.6	43.7
27.5°	33.2	37.9	41.4	43.1
30°	31.5	37.3	41.4	43.1
32.5°	29.7	36.1	40.8	42.6
35°	28.6	35.6	40.8	43.1
37.5°	27.4	35.0	40.8	42.6
40°	26.8	34.4	40.8	42.6
42.5°	26.2	34.4	40.8	43.1
45°	25.1	33.8	40.8	43.1
47.5°	24.5	33.8	40.8	43.1
50°	23.9	33.2	40.8	43.7
52.5°	23.3	32.6	40.8	43.7
55°	22.2	32.1	40.2	43.1
57.5°	21.6	31.5	39.6	42.0
60°	20.4	30.3	38.5	41.4
62.5°	19.2	29.2	37.3	39.6
65°	17.5	27.4	35.6	38.5
67.5°	15.7	25.1	33.8	36.7
70°	14.0	22.7	31.5	33.8
72.5°	12.2	20.4	29.2	30.9
75°	10.5	17.5	25.7	28.0
77.5°	8.7	15.2	21.6	23.3
80°	6.4	11.7	17.5	19.2
82.5°	5.2	8.7	12.8	14.0
85°	3.5	5.8	8.2	9.3
87.5°	1.7	2.9	4.1	4.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)