

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: P1326866

Luminaire Tested: LDSQA3D09R50W2N902750DE010 3LSQCA45R 1MMS\_2700K

Issue Date: 1/29/2026

**Test Information**

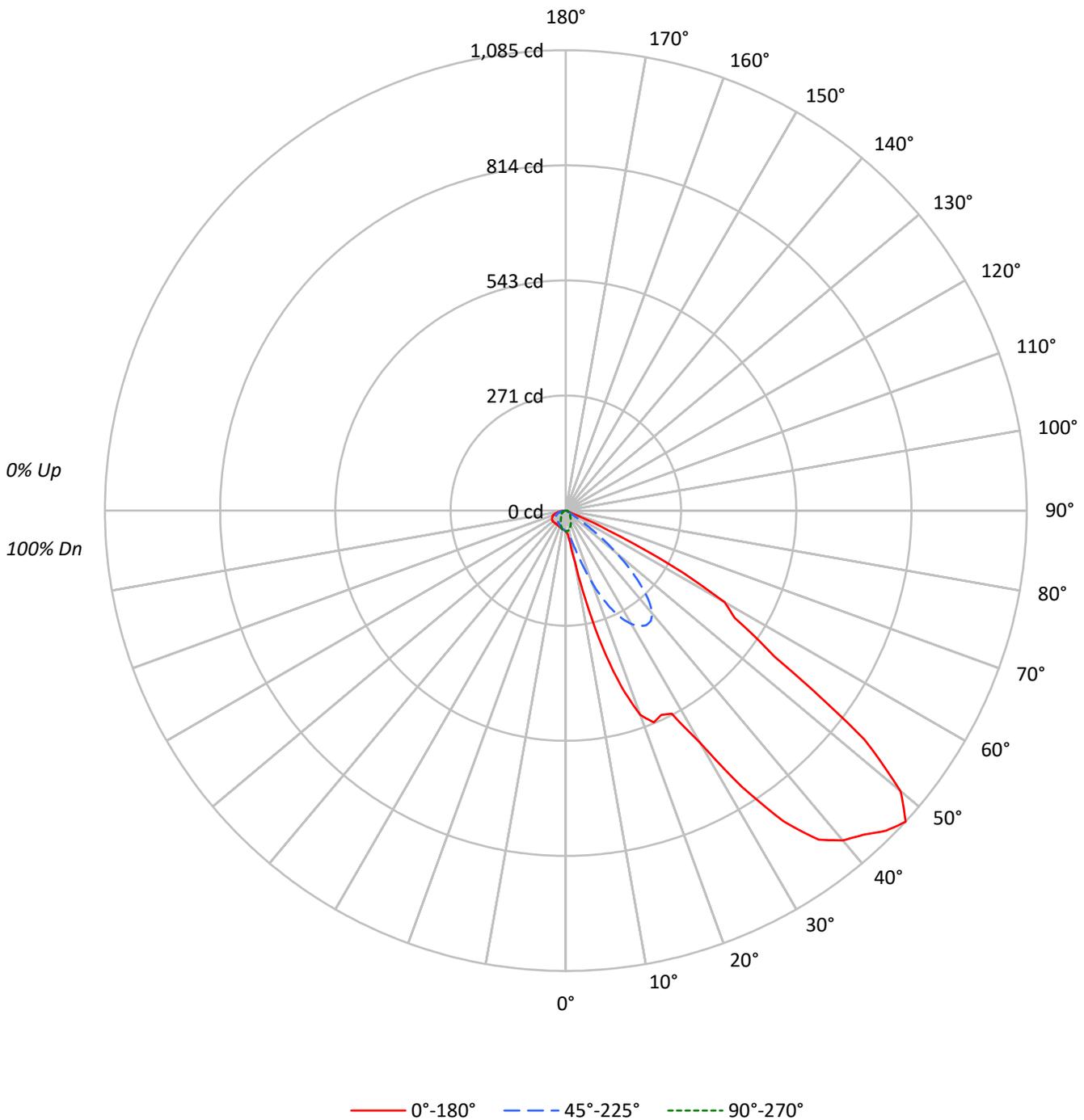
Test Method: LM-79-2019  
Report Number: P1326866  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R50W2N902750DE010 3LSQCA45R 1MMS\_2700K  
Description: 3in Adjustable Tunable White LED luminaire with, R50 optic, 2700K CCT AND, 90CRI ,  
3LSQCA45R 1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 612.0 lumens  
Efficiency: N/A  
Efficacy: 68.0 lumens/watt  
Spacing Criteria (0/90/45): 3.58 / 0.83 / 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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86	86	86	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73	73	73	73
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61	61	61	61
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51	51	51	51
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43	43	43	43
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37	37	37	37
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31	31	31	31
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27	27	27	27
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	23	23	23	23
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	20	20	20	20

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	8370	8370	8370	8370	8370
5°	9958	9318	8316	7953	7866
10°	21440	11560	7957	7677	7765
15°	59373	18953	7168	7346	7631
20°	93874	33228	6195	7074	7459
25°	100961	48818	5321	6822	7525
30°	125305	61290	4634	6722	7776
35°	188043	69360	3995	6770	8221
40°	228058	71313	3575	7014	8678
45°	259805	61158	3483	7477	9523
50°	275754	42199	3537	8065	10610
55°	180157	16995	3483	8738	11740
60°	148559	2928	3444	9472	12917
65°	44826	1508	3219	10106	14222
70°	1863	1611	3172	10373	15459
75°	1730	1730	3194	10580	16902
80°	1587	1587	3174	10513	17257
85°	988	2174	4150	10473	16796

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 47.5°  
 Luminance: 276641 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.1	0.8
10°-20°	29.0	4.7
20°-30°	74.5	12.2
30°-40°	133.8	21.9
40°-50°	178.7	29.2
50°-60°	136.1	22.2
60°-70°	41.3	6.8
70°-80°	9.9	1.6
80°-90°	3.6	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°	108.5	17.7
0°-40°	242.4	39.6
0°-60°	557.2	91.1
0°-90°	612.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	612.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	49	49	49	49	49	
5°	58	54	48	46	46	7
15°	333	106	40	41	43	98
25°	531	257	28	36	40	253
35°	894	330	19	32	39	549
45°	1067	251	14	31	39	816
55°	600	57	12	29	39	597
65°	110	4	8	25	35	152
75°	3	3	5	16	25	3
85°	0	1	2	5	8	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°	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
2.5°	51.8	51.8	51.8	51.8	51.8	51.8	51.3	51.3	51.3	50.2	49.2
5°	57.6	58.1	57.6	57.6	56.6	56.6	55.5	55.5	53.9	50.7	48.1
7.5°	75.6	75.1	74.5	72.4	70.8	67.1	65.5	62.9	58.1	50.7	47.0
10°	122.6	119.5	117.4	112.6	102.6	96.2	87.7	79.3	66.1	50.7	45.5
12.5°	213.0	212.5	206.2	190.3	176.0	156.5	135.9	115.2	81.4	49.7	43.3
15°	333.0	328.3	319.3	300.8	275.4	244.7	207.7	171.3	106.3	48.1	40.2
17.5°	435.6	429.8	422.9	404.4	375.3	336.7	292.3	242.1	140.1	46.0	37.0
20°	512.2	508.5	502.7	487.9	460.4	425.5	375.8	315.1	181.3	43.3	33.8
22.5°	540.2	539.7	540.8	535.5	521.7	494.2	446.7	383.2	222.0	40.2	30.7
25°	531.3	530.7	537.6	544.5	547.6	536.5	500.1	438.2	256.9	37.5	28.0
27.5°	539.7	538.1	535.0	536.0	545.0	551.3	534.4	480.5	287.0	33.8	25.4
30°	630.1	621.1	606.8	582.5	564.6	563.0	555.6	513.8	308.2	30.1	23.3
32.5°	771.2	760.1	734.2	689.3	646.5	613.7	590.5	541.8	323.0	26.4	20.6
35°	894.4	886.5	856.3	811.9	750.6	689.3	647.0	583.1	329.9	23.3	19.0
37.5°	977.9	974.8	945.2	897.6	835.2	762.8	706.7	625.3	328.3	19.6	17.4
40°	1014.4	1004.9	980.0	939.9	877.0	811.9	752.7	652.3	317.2	15.9	15.9
42.5°	1036.1	1025.5	998.5	960.5	898.6	829.4	758.0	640.7	290.7	12.7	15.3
45°	1066.7	1055.6	1020.2	979.5	917.1	836.8	737.4	599.4	251.1	9.5	14.3
47.5°	1085.2	1077.8	1051.4	1010.7	935.1	826.2	689.8	560.9	207.2	7.4	13.7
50°	1029.2	1021.8	1002.2	974.2	923.5	790.8	648.1	498.5	157.5	5.8	13.2
52.5°	885.9	892.3	896.0	903.9	866.9	711.5	585.7	448.8	106.3	4.8	12.2
55°	600.0	609.5	620.1	651.8	695.1	633.3	520.2	388.0	56.6	4.8	11.6
57.5°	471.5	468.3	465.2	463.1	496.9	522.3	457.2	310.3	24.3	4.8	10.6
60°	431.3	421.8	415.5	417.1	434.0	423.9	362.1	202.5	8.5	4.8	10.0
62.5°	282.8	290.2	304.5	328.8	317.2	272.2	210.4	80.3	4.2	4.8	9.0
65°	110.0	106.3	110.0	116.8	101.0	75.1	47.0	14.3	3.7	4.2	7.9
67.5°	14.8	13.2	10.0	6.3	5.8	5.3	4.2	3.7	3.7	4.2	7.4
70°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.2	3.2	3.7	6.3
72.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.7	5.3
75°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.2	4.8
77.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.6	3.7
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.1	3.2
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.6	1.6	2.1	2.6
85°	0.5	1.1	0.5	1.1	1.1	1.1	1.1	1.1	1.1	1.6	2.1
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.6	1.6
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°	48.6	48.6	48.6	48.6
2.5°	48.1	47.0	47.0	47.0
5°	47.0	46.0	46.0	45.5
7.5°	45.5	44.9	44.9	44.9
10°	44.4	43.9	44.4	44.4
12.5°	42.3	42.8	43.3	43.3
15°	40.2	41.2	42.3	42.8
17.5°	38.1	40.2	41.2	41.8
20°	35.9	38.6	40.2	40.7
22.5°	34.4	37.0	39.1	40.2
25°	32.2	35.9	38.6	39.6
27.5°	30.1	34.4	37.5	39.1
30°	28.5	33.8	37.5	39.1
32.5°	27.0	32.8	37.0	38.6
35°	25.9	32.2	37.0	39.1
37.5°	24.8	31.7	37.0	38.6
40°	24.3	31.2	37.0	38.6
42.5°	23.8	31.2	37.0	39.1
45°	22.7	30.7	37.0	39.1
47.5°	22.2	30.7	37.0	39.1
50°	21.7	30.1	37.0	39.6
52.5°	21.1	29.6	37.0	39.6
55°	20.1	29.1	36.5	39.1
57.5°	19.6	28.5	35.9	38.1
60°	18.5	27.5	34.9	37.5
62.5°	17.4	26.4	33.8	35.9
65°	15.9	24.8	32.2	34.9
67.5°	14.3	22.7	30.7	33.3
70°	12.7	20.6	28.5	30.7
72.5°	11.1	18.5	26.4	28.0
75°	9.5	15.9	23.3	25.4
77.5°	7.9	13.7	19.6	21.1
80°	5.8	10.6	15.9	17.4
82.5°	4.8	7.9	11.6	12.7
85°	3.2	5.3	7.4	8.5
87.5°	1.6	2.6	3.7	4.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)