

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: P1326870

Luminaire Tested: LDSQA3D09R50W2N902750DE010 3LSQCA45R 1MMS_5000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1326870
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_5000K
Description: 3in Adjustable Tunable White LED luminaire with, R50 optic, 5000K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

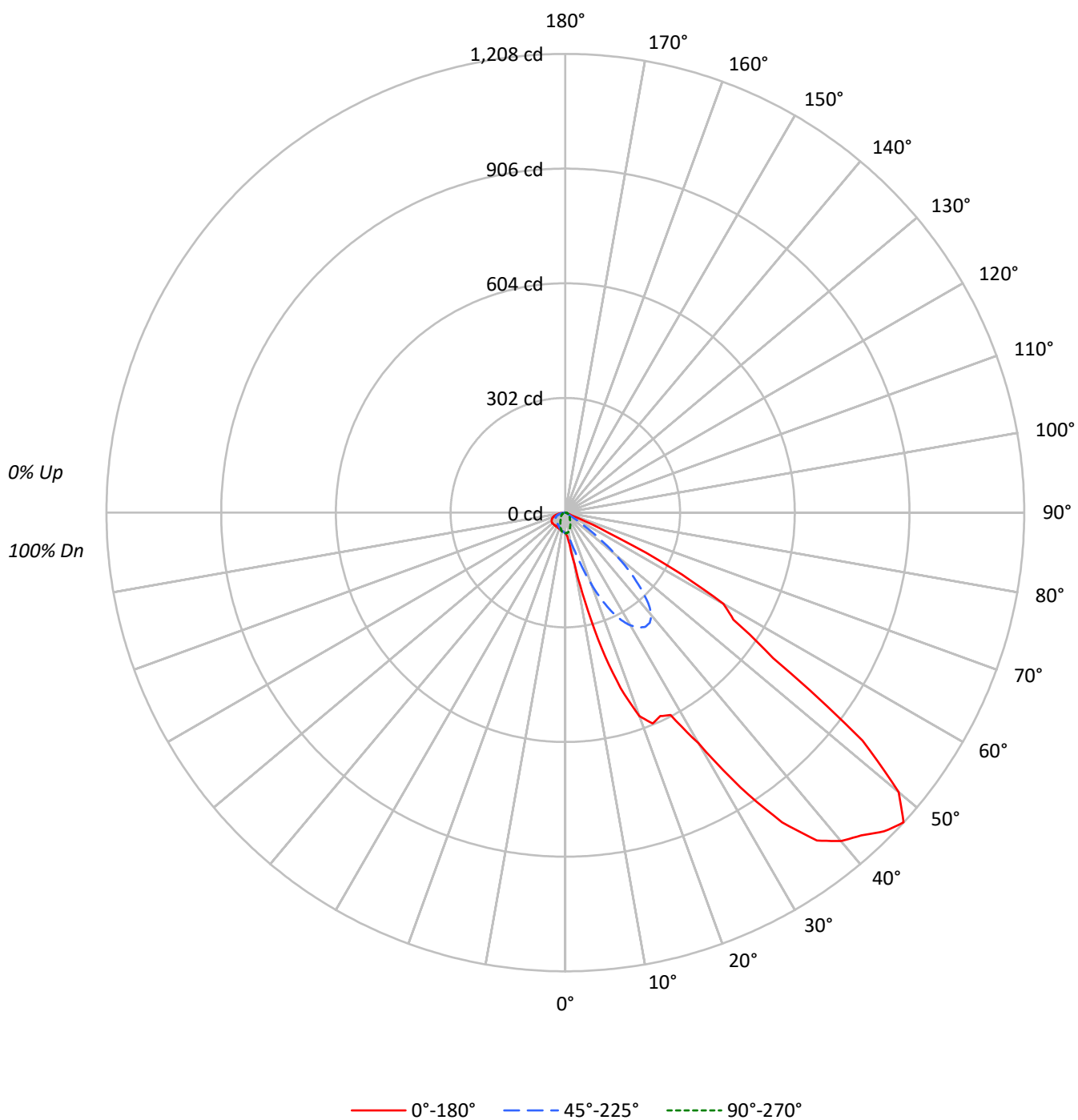
Lumens per Lamp: N/A
Luminaire Lumens: 681.0 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9317	9317	9317	9317	9317
5°	11082	10373	9249	8851	8748
10°	23871	12854	8849	8534	8639
15°	66077	21075	7970	8184	8487
20°	104467	36985	6891	7863	8302
25°	112325	54329	5929	7601	8380
30°	139425	68191	5151	7477	8651
35°	209236	77160	4457	7548	9146
40°	253778	79339	3957	7801	9645
45°	289105	68051	3873	8305	10595
50°	306834	46968	3939	8976	11816
55°	200454	18886	3873	9728	13061
60°	165334	3238	3858	10540	14398
65°	49839	1671	3586	11247	15812
70°	2065	1762	3575	11531	17171
75°	1930	1930	3527	11711	18765
80°	1785	1785	3471	11703	19241
85°	1186	2371	4742	11659	18575

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 307844 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.6	0.8
10°-20°	32.2	4.7
20°-30°	82.9	12.2
30°-40°	148.9	21.9
40°-50°	198.9	29.2
50°-60°	151.5	22.2
60°-70°	46.0	6.8
70°-80°	11.0	1.6
80°-90°	4.0	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°	120.8	17.7
0°-40°	269.7	39.6
0°-60°	620.1	91.1
0°-90°	681.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	681.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	54	54	54	54	54	
5°	64	60	54	51	51	8
15°	371	118	45	46	48	109
25°	591	286	31	40	44	282
35°	995	367	21	36	44	611
45°	1187	279	16	34	44	908
55°	668	63	13	32	44	664
65°	122	4	9	28	39	169
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°	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
2.5°	57.6	57.6	57.6	57.6	57.6	57.6	57.1	57.1	57.1	55.9	54.7
5°	64.1	64.7	64.1	64.1	62.9	62.9	61.8	61.8	60.0	56.5	53.5
7.5°	84.1	83.5	82.9	80.6	78.8	74.7	72.9	70.0	64.7	56.5	52.4
10°	136.5	132.9	130.6	125.3	114.1	107.1	97.6	88.2	73.5	56.5	50.6
12.5°	237.0	236.5	229.4	211.8	195.9	174.1	151.2	128.2	90.6	55.3	48.2
15°	370.6	365.3	355.3	334.7	306.5	272.3	231.2	190.6	118.2	53.5	44.7
17.5°	484.7	478.2	470.6	450.0	417.6	374.7	325.3	269.4	155.9	51.2	41.2
20°	570.0	565.9	559.4	542.9	512.3	473.5	418.2	350.6	201.8	48.2	37.6
22.5°	601.1	600.6	601.7	595.9	580.6	550.0	497.0	426.4	247.0	44.7	34.1
25°	591.1	590.6	598.2	605.9	609.4	597.0	556.4	487.6	285.9	41.8	31.2
27.5°	600.6	598.8	595.3	596.4	606.4	613.5	594.7	534.7	319.4	37.6	28.2
30°	701.1	691.1	675.3	648.2	628.2	626.4	618.2	571.7	342.9	33.5	25.9
32.5°	858.2	845.8	817.0	767.0	719.4	682.9	657.0	602.9	359.4	29.4	22.9
35°	995.2	986.4	952.9	903.5	835.3	767.0	720.0	648.8	367.0	25.9	21.2
37.5°	1088.2	1084.7	1051.7	998.8	929.4	848.8	786.4	695.8	365.3	21.8	19.4
40°	1128.8	1118.2	1090.5	1045.8	975.8	903.5	837.6	725.8	352.9	17.6	17.6
42.5°	1152.9	1141.1	1111.1	1068.8	1000.0	922.9	843.5	712.9	323.5	14.1	17.1
45°	1187.0	1174.6	1135.2	1089.9	1020.5	931.1	820.5	667.0	279.4	10.6	15.9
47.5°	1207.6	1199.4	1169.9	1124.7	1040.5	919.4	767.6	624.1	230.6	8.2	15.3
50°	1145.2	1137.0	1115.2	1084.1	1027.6	880.0	721.1	554.7	175.3	6.5	14.7
52.5°	985.8	992.9	997.0	1005.8	964.7	791.7	651.7	499.4	118.2	5.3	13.5
55°	667.6	678.2	690.0	725.3	773.5	704.7	578.8	431.7	62.9	5.3	12.9
57.5°	524.7	521.2	517.6	515.3	552.9	581.1	508.8	345.3	27.1	5.3	11.8
60°	480.0	469.4	462.3	464.1	482.9	471.7	402.9	225.3	9.4	5.3	11.2
62.5°	314.7	322.9	338.8	365.9	352.9	302.9	234.1	89.4	4.7	5.3	10.0
65°	122.3	118.2	122.3	130.0	112.3	83.5	52.4	15.9	4.1	4.7	8.8
67.5°	16.5	14.7	11.2	7.1	6.5	5.9	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	7.1
72.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.1	5.9
75°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.5	5.3
77.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.9	4.1
80°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.4	3.5
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	1.8	2.4	2.9
85°	0.6	1.2	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.8	2.4
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.8	1.8
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°	54.1	54.1	54.1	54.1
2.5°	53.5	52.4	52.4	52.4
5°	52.4	51.2	51.2	50.6
7.5°	50.6	50.0	50.0	50.0
10°	49.4	48.8	49.4	49.4
12.5°	47.1	47.6	48.2	48.2
15°	44.7	45.9	47.1	47.6
17.5°	42.4	44.7	45.9	46.5
20°	40.0	42.9	44.7	45.3
22.5°	38.2	41.2	43.5	44.7
25°	35.9	40.0	42.9	44.1
27.5°	33.5	38.2	41.8	43.5
30°	31.8	37.6	41.8	43.5
32.5°	30.0	36.5	41.2	42.9
35°	28.8	35.9	41.2	43.5
37.5°	27.6	35.3	41.2	42.9
40°	27.1	34.7	41.2	42.9
42.5°	26.5	34.7	41.2	43.5
45°	25.3	34.1	41.2	43.5
47.5°	24.7	34.1	41.2	43.5
50°	24.1	33.5	41.2	44.1
52.5°	23.5	32.9	41.2	44.1
55°	22.4	32.4	40.6	43.5
57.5°	21.8	31.8	40.0	42.4
60°	20.6	30.6	38.8	41.8
62.5°	19.4	29.4	37.6	40.0
65°	17.6	27.6	35.9	38.8
67.5°	15.9	25.3	34.1	37.1
70°	14.1	22.9	31.8	34.1
72.5°	12.4	20.6	29.4	31.2
75°	10.6	17.6	25.9	28.2
77.5°	8.8	15.3	21.8	23.5
80°	6.5	11.8	17.6	19.4
82.5°	5.3	8.8	12.9	14.1
85°	3.5	5.9	8.2	9.4
87.5°	1.8	2.9	4.1	4.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)