

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: P1326869

Luminaire Tested: LDSQA3D09R50W2N902750DE010 3LSQCA45R 1MMS_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1326869
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_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R50 optic, 4000K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

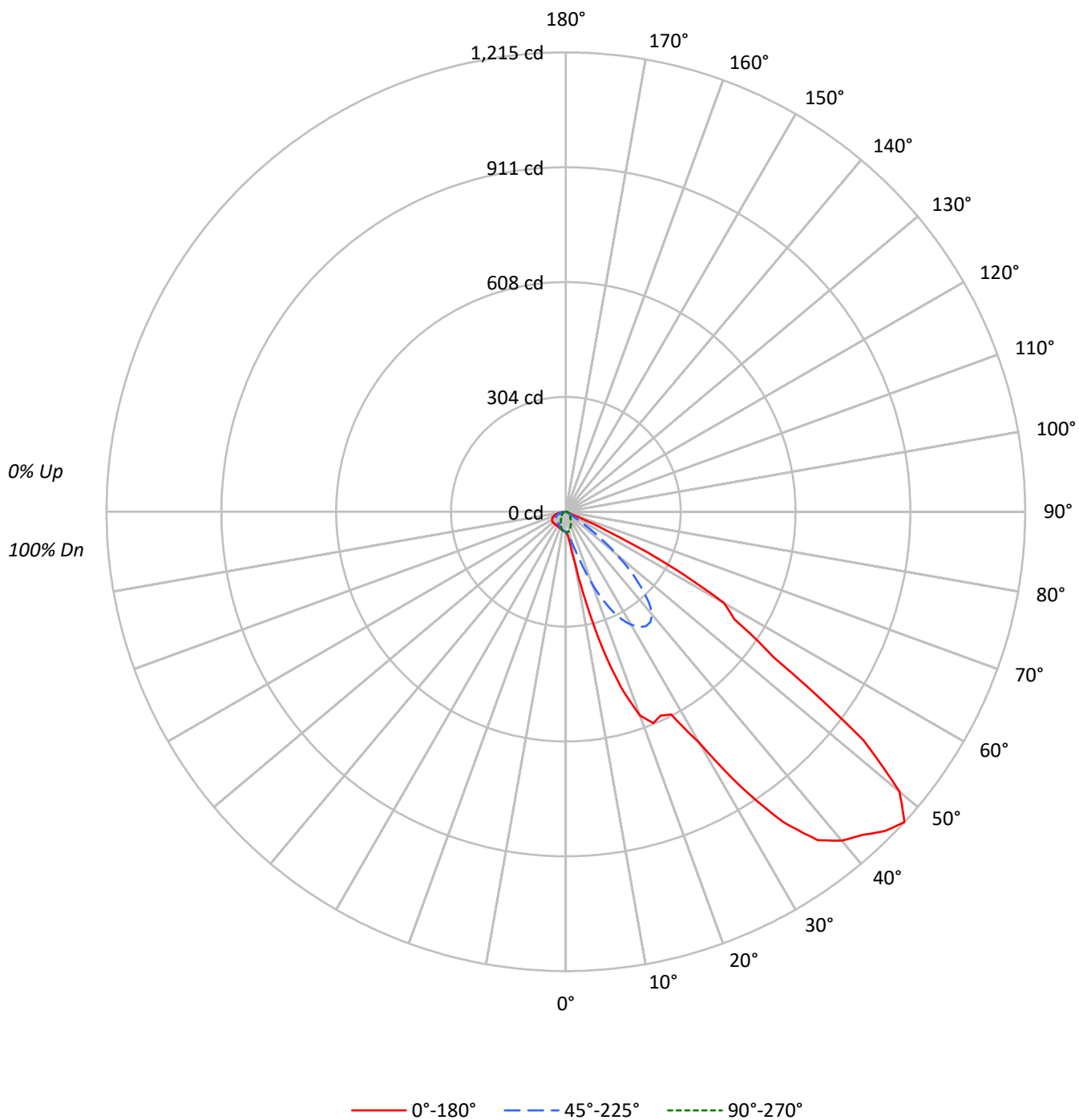
Lumens per Lamp: N/A
Luminaire Lumens: 685.0 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9369	9369	9369	9369	9369
5°	11151	10425	9301	8903	8800
10°	24011	12941	8901	8587	8692
15°	66452	21200	8023	8220	8540
20°	105072	37187	6946	7918	8357
25°	112990	54633	5967	7639	8437
30°	140260	68589	5171	7537	8710
35°	210476	77622	4478	7590	9209
40°	255261	79811	3979	7846	9712
45°	290810	68440	3897	8354	10668
50°	308656	47236	3965	9029	11896
55°	201625	19007	3903	9758	13151
60°	166298	3272	3858	10609	14467
65°	50165	1671	3627	11329	15893
70°	2065	1762	3575	11632	17272
75°	1996	1996	3527	11778	18898
80°	1785	1785	3471	11703	19340
85°	1186	2371	4742	11659	18772

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 309653 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.7	0.8
10°-20°	32.4	4.7
20°-30°	83.4	12.2
30°-40°	149.8	21.9
40°-50°	200.1	29.2
50°-60°	152.4	22.2
60°-70°	46.2	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°	121.5	17.7
0°-40°	271.3	39.6
0°-60°	623.7	91.1
0°-90°	685.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	685.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	54	54	54	54	54	
5°	64	60	54	52	51	8
15°	373	119	45	46	48	110
25°	595	288	31	40	44	284
35°	1001	369	21	36	44	615
45°	1194	281	16	34	44	913
55°	672	63	13	32	44	668
65°	123	4	9	28	39	170
75°	3	3	5	18	28	3
85°	1	1	2	6	10	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°	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
2.5°	58.0	58.0	58.0	58.0	58.0	58.0	57.4	57.4	57.4	56.2	55.0
5°	64.5	65.1	64.5	64.5	63.3	63.3	62.1	62.1	60.3	56.8	53.8
7.5°	84.6	84.0	83.4	81.1	79.3	75.1	73.4	70.4	65.1	56.8	52.7
10°	137.3	133.7	131.3	126.0	114.8	107.7	98.2	88.7	74.0	56.8	50.9
12.5°	238.4	237.8	230.7	213.0	197.0	175.1	152.1	129.0	91.1	55.6	48.5
15°	372.7	367.4	357.4	336.7	308.3	273.9	232.5	191.7	118.9	53.8	45.0
17.5°	487.5	481.0	473.3	452.6	420.1	376.9	327.2	271.0	156.8	51.5	41.4
20°	573.3	569.2	562.7	546.1	515.3	476.3	420.7	352.6	202.9	48.5	37.9
22.5°	604.7	604.1	605.3	599.4	584.0	553.2	500.0	429.0	248.5	45.0	34.3
25°	594.6	594.0	601.7	609.4	613.0	600.5	559.7	490.5	287.5	42.0	31.4
27.5°	604.1	602.3	598.8	599.9	610.0	617.1	598.2	537.8	321.3	37.9	28.4
30°	705.3	695.2	679.2	652.0	631.9	630.1	621.8	575.1	344.9	33.7	26.0
32.5°	863.2	850.8	821.8	771.5	723.6	686.9	660.9	606.5	361.5	29.6	23.1
35°	1001.1	992.2	958.5	908.8	840.2	771.5	724.2	652.6	369.2	26.0	21.3
37.5°	1094.6	1091.0	1057.9	1004.6	934.8	853.8	791.1	699.9	367.4	21.9	19.5
40°	1135.4	1124.7	1096.9	1052.0	981.6	908.8	842.5	730.1	355.0	17.7	17.7
42.5°	1159.7	1147.8	1117.6	1075.0	1005.8	928.3	848.4	717.1	325.4	14.2	17.2
45°	1194.0	1181.5	1141.9	1096.3	1026.5	936.6	825.4	670.9	281.0	10.6	16.0
47.5°	1214.7	1206.4	1176.8	1131.3	1046.6	924.8	772.1	627.8	231.9	8.3	15.4
50°	1152.0	1143.7	1121.8	1090.4	1033.6	885.1	725.4	557.9	176.3	6.5	14.8
52.5°	991.6	998.7	1002.9	1011.7	970.3	796.4	655.6	502.3	118.9	5.3	13.6
55°	671.5	682.2	694.0	729.5	778.0	708.8	582.2	434.3	63.3	5.3	13.0
57.5°	527.8	524.2	520.7	518.3	556.2	584.6	511.8	347.3	27.2	5.3	11.8
60°	482.8	472.1	465.0	466.8	485.8	474.5	405.3	226.6	9.5	5.3	11.2
62.5°	316.5	324.8	340.8	368.0	355.0	304.7	235.5	89.9	4.7	5.3	10.1
65°	123.1	118.9	123.1	130.8	113.0	84.0	52.7	16.0	4.1	4.7	8.9
67.5°	16.6	14.8	11.2	7.1	6.5	5.9	4.7	4.1	4.1	4.7	8.3
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°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.5	5.3
77.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.0	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	3.0
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°	54.4	54.4	54.4	54.4
2.5°	53.8	52.7	52.7	52.7
5°	52.7	51.5	51.5	50.9
7.5°	50.9	50.3	50.3	50.3
10°	49.7	49.1	49.7	49.7
12.5°	47.3	47.9	48.5	48.5
15°	45.0	46.1	47.3	47.9
17.5°	42.6	45.0	46.1	46.7
20°	40.2	43.2	45.0	45.6
22.5°	38.5	41.4	43.8	45.0
25°	36.1	40.2	43.2	44.4
27.5°	33.7	38.5	42.0	43.8
30°	31.9	37.9	42.0	43.8
32.5°	30.2	36.7	41.4	43.2
35°	29.0	36.1	41.4	43.8
37.5°	27.8	35.5	41.4	43.2
40°	27.2	34.9	41.4	43.2
42.5°	26.6	34.9	41.4	43.8
45°	25.4	34.3	41.4	43.8
47.5°	24.8	34.3	41.4	43.8
50°	24.3	33.7	41.4	44.4
52.5°	23.7	33.1	41.4	44.4
55°	22.5	32.5	40.8	43.8
57.5°	21.9	31.9	40.2	42.6
60°	20.7	30.8	39.0	42.0
62.5°	19.5	29.6	37.9	40.2
65°	17.7	27.8	36.1	39.0
67.5°	16.0	25.4	34.3	37.3
70°	14.2	23.1	31.9	34.3
72.5°	12.4	20.7	29.6	31.4
75°	10.6	17.7	26.0	28.4
77.5°	8.9	15.4	21.9	23.7
80°	6.5	11.8	17.7	19.5
82.5°	5.3	8.9	13.0	14.2
85°	3.5	5.9	8.3	9.5
87.5°	1.8	3.0	4.1	4.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)