

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: P1326851

Luminaire Tested: LDSQA3D09R50W2N902750DE010 3LSQCA30R 1MMS_2700K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1326851
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R50W2N902750DE010 3LSQCA30R 1MMS_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R50 optic, 2700K CCT AND, 90CRI ,
3LSQCA30R 1MMS TRIM
Light Source: -
Ballast/Driver: -

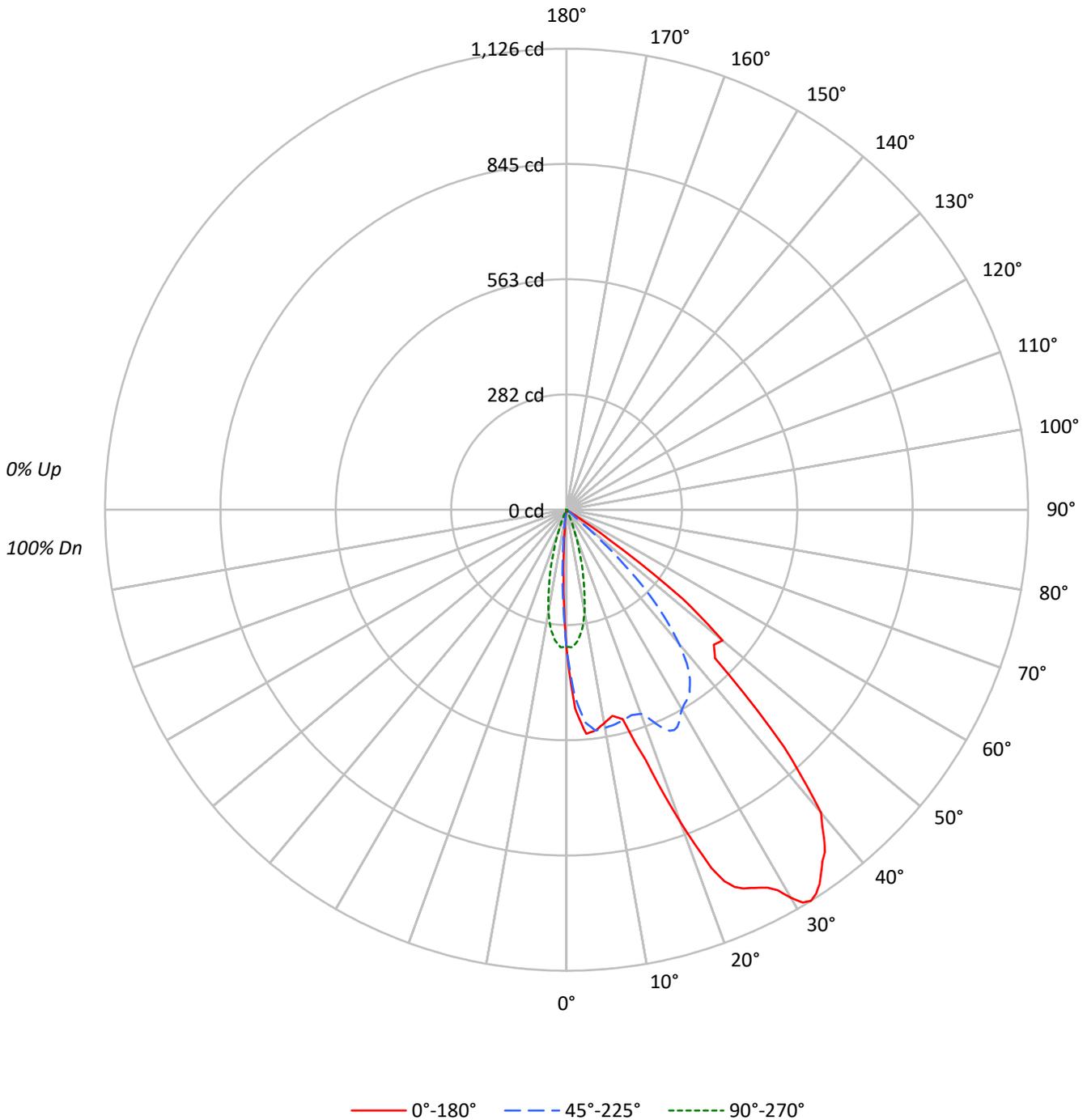
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 539.0 lumens
Efficiency: N/A
Efficacy: 59.9 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
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	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	57643	57643	57643	57643	57643
5°	94963	90123	55391	16458	8229
10°	92546	94575	44384	839	1102
15°	94355	94926	26584	856	285
20°	148728	97191	10942	0	0
25°	193903	113218	2603	0	0
30°	217638	111961	99	0	0
35°	227758	110274	0	0	0
40°	217267	95796	0	0	0
45°	124776	63228	0	0	0
50°	133162	7234	0	0	0
55°	37953	0	0	0	0
60°	0	0	172	0	0
65°	0	204	204	0	0
70°	0	252	252	0	0
75°	0	333	333	0	0
80°	0	496	1091	496	0
85°	0	988	2174	988	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 137782 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.1	5.2
10°-20°	70.8	13.1
20°-30°	136.0	25.2
30°-40°	158.3	29.4
40°-50°	113.3	21.0
50°-60°	31.5	5.9
60°-70°	0.2	0.0
70°-80°	0.3	0.1
80°-90°	0.4	0.1
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°	234.9	43.6
0°-40°	393.2	73.0
0°-60°	538.1	99.8
0°-90°	539.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	539.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	335	335	335	335	335	
5°	549	521	320	95	48	50
15°	529	532	149	5	2	171
25°	1020	596	14	0	0	464
35°	1083	524	0	0	0	670
45°	512	260	0	0	0	482
55°	126	0	0	0	0	159
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	1	0	0	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°	334.7	334.7	334.7	334.7	334.7	334.7	334.7	334.7	334.7	334.7	334.7
2.5°	486.4	489.0	489.6	483.2	484.3	475.3	475.8	469.5	454.1	400.7	336.2
5°	549.3	547.7	549.3	547.2	549.3	544.0	540.8	538.2	521.3	445.7	320.4
7.5°	543.5	541.4	544.5	545.6	549.3	547.7	548.2	549.8	544.0	470.0	293.4
10°	529.2	528.7	530.3	530.3	534.5	535.0	537.1	540.3	540.8	478.5	253.8
12.5°	515.5	513.9	513.9	513.3	515.5	514.9	520.2	527.6	537.7	473.2	199.3
15°	529.2	527.6	525.5	519.7	515.5	510.7	511.2	516.0	532.4	459.4	149.1
17.5°	640.2	631.8	621.2	602.7	583.1	549.3	529.2	516.5	526.0	438.3	99.4
20°	811.5	807.8	790.9	760.8	729.1	679.4	617.5	567.8	530.3	411.8	59.7
21°	876.6	874.4	856.5	828.4	792.5	732.2	668.8	609.0	538.7	400.7	47.1
22°	943.2	935.2	921.0	889.8	852.2	792.0	721.1	655.0	555.6	386.5	36.0
23°	986.0	981.2	965.9	941.1	905.1	846.4	774.0	702.1	572.0	370.6	27.0
24°	1008.2	1006.6	994.5	977.0	946.3	886.6	817.9	743.9	585.8	352.1	19.6
25°	1020.4	1015.1	1007.7	995.0	971.7	919.9	858.6	780.3	595.8	333.6	13.7
26°	1027.8	1024.6	1013.0	1001.9	979.6	937.4	885.0	802.5	598.5	310.9	9.5
27°	1036.2	1028.8	1017.7	1004.5	979.6	942.6	895.1	812.1	595.3	287.6	6.3
28°	1045.2	1039.9	1024.6	1007.7	978.1	942.6	891.4	799.4	585.8	265.4	3.7
29°	1062.6	1055.8	1036.7	1011.9	978.6	941.6	877.1	772.9	573.1	240.6	2.1
30°	1094.4	1080.1	1056.8	1021.9	982.3	939.5	853.3	733.3	563.0	212.5	0.5
31°	1119.2	1111.3	1084.3	1040.4	992.9	933.7	825.3	694.2	556.2	188.2	0.0
32°	1126.1	1120.3	1100.7	1059.5	1010.8	928.9	793.6	656.1	550.9	161.2	0.0
33°	1118.2	1114.5	1093.8	1056.3	1015.6	922.5	757.1	618.6	545.1	136.9	0.0
34°	1103.4	1098.6	1080.6	1042.6	1003.4	895.1	722.2	590.0	536.6	114.2	0.0
35°	1083.3	1079.6	1061.1	1023.5	981.2	852.2	687.3	571.0	524.5	91.5	0.0
36°	1061.6	1060.5	1036.7	999.7	952.7	811.0	645.0	556.7	512.3	72.4	0.0
37°	1047.3	1042.0	1016.1	979.6	918.8	762.9	611.2	551.9	495.4	56.0	0.0
38°	1021.4	1022.5	992.9	959.6	884.5	721.1	583.7	548.2	476.3	40.7	0.0
39°	990.7	991.3	960.6	932.1	843.8	677.2	560.9	544.5	452.6	25.9	0.0
40°	966.4	965.9	931.0	900.3	799.9	636.0	548.8	539.3	426.1	14.8	0.0
42.5°	785.6	788.8	793.0	805.7	696.8	563.6	537.1	509.6	351.0	0.0	0.0
45°	512.3	524.5	527.6	565.7	565.2	534.0	509.6	456.8	259.6	0.0	0.0
47.5°	487.4	491.1	498.0	512.8	520.8	505.4	455.7	381.7	141.7	0.0	0.0
50°	497.0	496.4	498.0	498.0	483.7	444.1	373.8	281.8	27.0	0.0	0.0
52.5°	356.9	370.1	384.4	390.7	372.2	330.4	272.8	165.5	0.0	0.0	0.0
55°	126.4	122.1	119.0	130.1	127.4	143.3	118.4	38.6	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.5	2.1	4.8	6.3	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	1.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	1.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	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°	334.7	334.7	334.7	334.7
2.5°	268.0	205.7	166.5	169.2
5°	188.2	95.2	58.7	47.6
7.5°	112.6	29.1	5.8	4.8
10°	52.9	4.8	5.3	6.3
12.5°	15.9	4.2	5.8	5.3
15°	4.2	4.8	2.6	1.6
17.5°	1.6	2.1	0.0	0.0
20°	1.1	0.0	0.0	0.0
21°	1.1	0.0	0.0	0.0
22°	0.5	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	0.5	0.0	0.0	0.0
67.5°	0.5	0.0	0.0	0.0
70°	0.5	0.0	0.0	0.0
72.5°	0.5	0.0	0.0	0.0
75°	0.5	0.0	0.0	0.0
77.5°	0.5	0.0	0.0	0.0
80°	0.5	0.5	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	0.5	0.5	0.0	0.0
85°	0.5	0.5	0.0	0.0
87.5°	0.5	0.5	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)