

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: P1326894

Luminaire Tested: LDSQA3D09R50W2N902765DE010 3LSQCA30R 1MB_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1326894
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: LDSQA3D09R50W2N902765DE010 3LSQCA30R 1MB_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R50 optic, 4000K CCT AND, 90CRI ,
3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

Summary

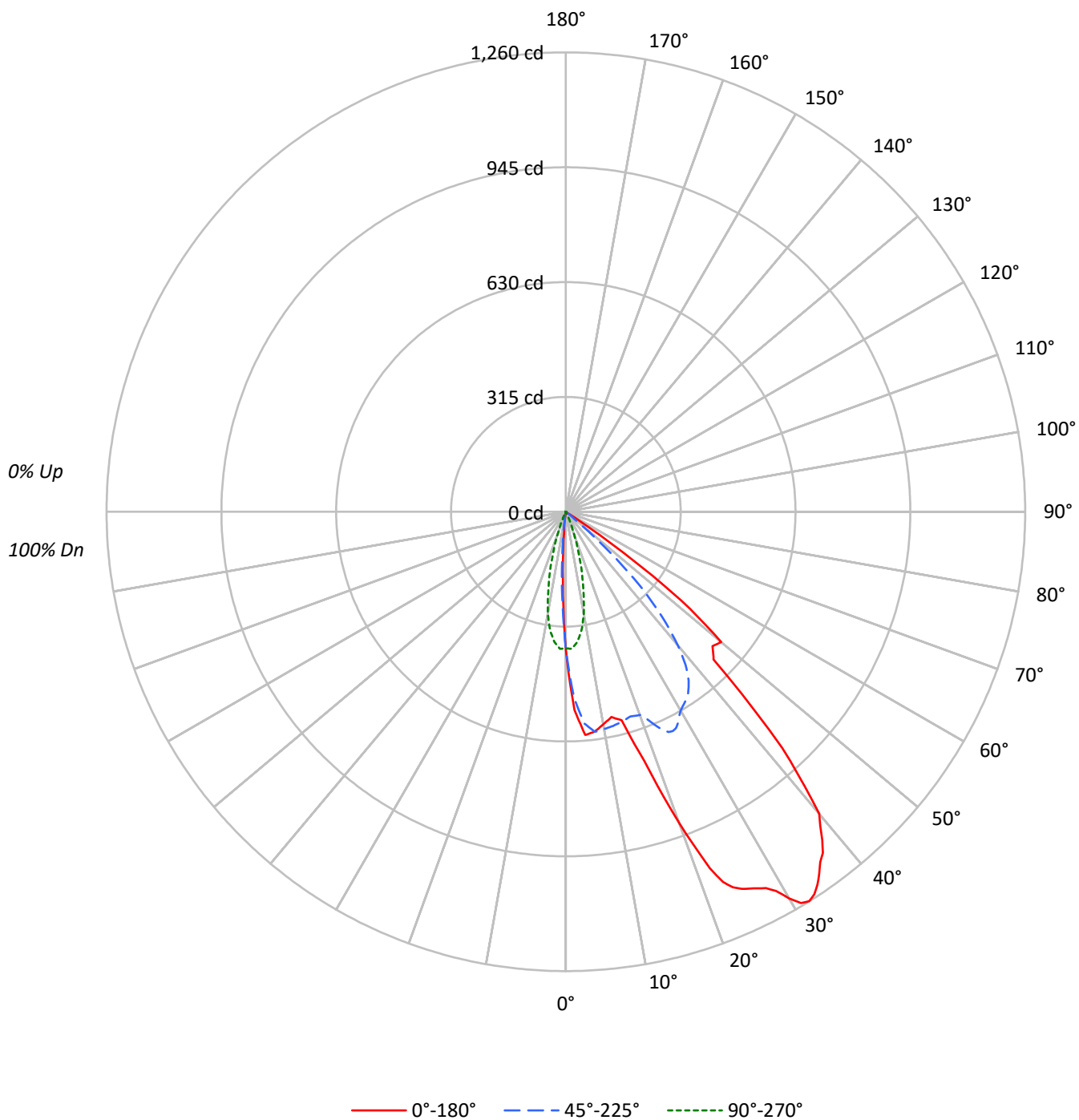
Lumens per Lamp: N/A
Luminaire Lumens: 603.0 lumens
Efficiency: N/A
Efficacy: 67.0 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	50	30
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	99	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°	64480	64480	64480	64480	64480
5°	106235	100824	61960	18412	9197
10°	103529	105820	49648	927	1242
15°	105552	106194	29740	945	321
20°	166396	108719	12243	0	0
25°	216915	126672	2926	0	0
30°	243471	125265	119	0	0
35°	254796	123351	0	0	0
40°	243076	107172	0	0	0
45°	139584	70730	0	0	0
50°	148970	8092	0	0	0
55°	42457	0	0	0	0
60°	0	0	207	0	0
65°	0	245	245	0	0
70°	0	302	302	0	0
75°	0	399	399	0	0
80°	0	595	1190	595	0
85°	0	1186	2371	1186	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 154149 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.4	5.2
10°-20°	79.2	13.1
20°-30°	152.2	25.2
30°-40°	177.1	29.4
40°-50°	126.8	21.0
50°-60°	35.3	5.9
60°-70°	0.2	0.0
70°-80°	0.4	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°	262.8	43.6
0°-40°	439.9	73.0
0°-60°	602.0	99.8
0°-90°	603.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	603.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	374	374	374	374	374	
5°	614	583	358	106	53	56
15°	592	596	167	5	2	191
25°	1142	667	15	0	0	519
35°	1212	587	0	0	0	750
45°	573	290	0	0	0	539
55°	141	0	0	0	0	178
65°	0	1	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	1	1	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°	374.4	374.4	374.4	374.4	374.4	374.4	374.4	374.4	374.4	374.4	374.4
2.5°	544.1	547.1	547.7	540.6	541.8	531.7	532.3	525.2	508.1	448.3	376.2
5°	614.5	612.7	614.5	612.2	614.5	608.6	605.1	602.1	583.2	498.6	358.4
7.5°	608.0	605.7	609.2	610.4	614.5	612.7	613.3	615.1	608.6	525.8	328.3
10°	592.0	591.5	593.2	593.2	598.0	598.6	600.9	604.5	605.1	535.3	283.9
12.5°	576.7	574.9	574.9	574.3	576.7	576.1	582.0	590.3	601.5	529.4	223.0
15°	592.0	590.3	587.9	581.4	576.7	571.3	571.9	577.3	595.6	514.0	166.8
17.5°	716.3	706.8	695.0	674.3	652.4	614.5	592.0	577.9	588.5	490.3	111.2
20°	907.9	903.7	884.8	851.1	815.6	760.0	690.8	635.2	593.2	460.7	66.8
21°	980.6	978.3	958.2	926.8	886.6	819.2	748.2	681.4	602.7	448.3	52.6
22°	1055.2	1046.3	1030.3	995.4	953.4	886.0	806.7	732.8	621.6	432.4	40.2
23°	1103.1	1097.7	1080.6	1052.8	1012.6	946.9	865.9	785.5	640.0	414.6	30.2
24°	1127.9	1126.1	1112.5	1093.0	1058.7	991.9	915.0	832.2	655.3	393.9	21.9
25°	1141.5	1135.6	1127.3	1113.1	1087.1	1029.1	960.5	873.0	666.6	373.2	15.4
26°	1149.8	1146.2	1133.2	1120.8	1096.0	1048.7	990.1	897.8	669.5	347.8	10.6
27°	1159.3	1151.0	1138.6	1123.8	1096.0	1054.6	1001.3	908.5	666.0	321.8	7.1
28°	1169.3	1163.4	1146.2	1127.3	1094.2	1054.6	997.2	894.3	655.3	296.9	4.1
29°	1188.8	1181.1	1159.8	1132.0	1094.8	1053.4	981.2	864.7	641.1	269.1	2.4
30°	1224.3	1208.3	1182.3	1143.3	1098.9	1051.0	954.6	820.4	629.9	237.8	0.6
31°	1252.1	1243.2	1213.1	1164.0	1110.8	1044.5	923.3	776.6	622.2	210.6	0.0
32°	1259.8	1253.3	1231.4	1185.3	1130.9	1039.2	887.8	734.0	616.3	180.4	0.0
33°	1250.9	1246.8	1223.7	1181.7	1136.2	1032.1	847.0	692.0	609.8	153.2	0.0
34°	1234.4	1229.0	1208.9	1166.4	1122.6	1001.3	807.9	660.1	600.3	127.8	0.0
35°	1211.9	1207.8	1187.1	1145.1	1097.7	953.4	768.9	638.8	586.7	102.3	0.0
36°	1187.6	1186.5	1159.8	1118.4	1065.8	907.3	721.6	622.8	573.1	81.0	0.0
37°	1171.7	1165.8	1136.8	1096.0	1028.0	853.5	683.7	617.5	554.2	62.7	0.0
38°	1142.7	1143.9	1110.8	1073.5	989.5	806.7	653.0	613.3	532.9	45.5	0.0
39°	1108.4	1109.0	1074.7	1042.7	944.0	757.7	627.5	609.2	506.3	29.0	0.0
40°	1081.2	1080.6	1041.6	1007.3	894.9	711.5	613.9	603.3	476.7	16.6	0.0
42.5°	878.9	882.5	887.2	901.4	779.5	630.5	600.9	570.2	392.7	0.0	0.0
45°	573.1	586.7	590.3	632.9	632.3	597.4	570.2	511.0	290.4	0.0	0.0
47.5°	545.3	549.5	557.2	573.7	582.6	565.4	509.8	427.0	158.5	0.0	0.0
50°	556.0	555.4	557.2	557.2	541.2	496.8	418.2	315.2	30.2	0.0	0.0
52.5°	399.2	414.0	430.0	437.1	416.4	369.7	305.2	185.1	0.0	0.0	0.0
55°	141.4	136.6	133.1	145.5	142.5	160.3	132.5	43.2	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.6	2.4	5.3	7.1	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	0.6	0.6
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	1.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	1.2



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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	0.6	0.6	0.6	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	1.2
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°	374.4	374.4	374.4	374.4
2.5°	299.9	230.1	186.3	189.3
5°	210.6	106.5	65.7	53.2
7.5°	126.0	32.5	6.5	5.3
10°	59.1	5.3	5.9	7.1
12.5°	17.7	4.7	6.5	5.9
15°	4.7	5.3	3.0	1.8
17.5°	1.8	2.4	0.0	0.0
20°	1.2	0.0	0.0	0.0
21°	1.2	0.0	0.0	0.0
22°	0.6	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°	0.6	0.0	0.0	0.0
67.5°	0.6	0.0	0.0	0.0
70°	0.6	0.0	0.0	0.0
72.5°	0.6	0.0	0.0	0.0
75°	0.6	0.0	0.0	0.0
77.5°	0.6	0.0	0.0	0.0
80°	0.6	0.6	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	0.6	0.6	0.0	0.0
85°	0.6	0.6	0.0	0.0
87.5°	0.6	0.6	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)