

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: P1326860

Luminaire Tested: LDSQA3D09R50W2N902750DE010 3LSQCA30R 1MW\_5000K

Issue Date: 1/29/2026

**Test Information**

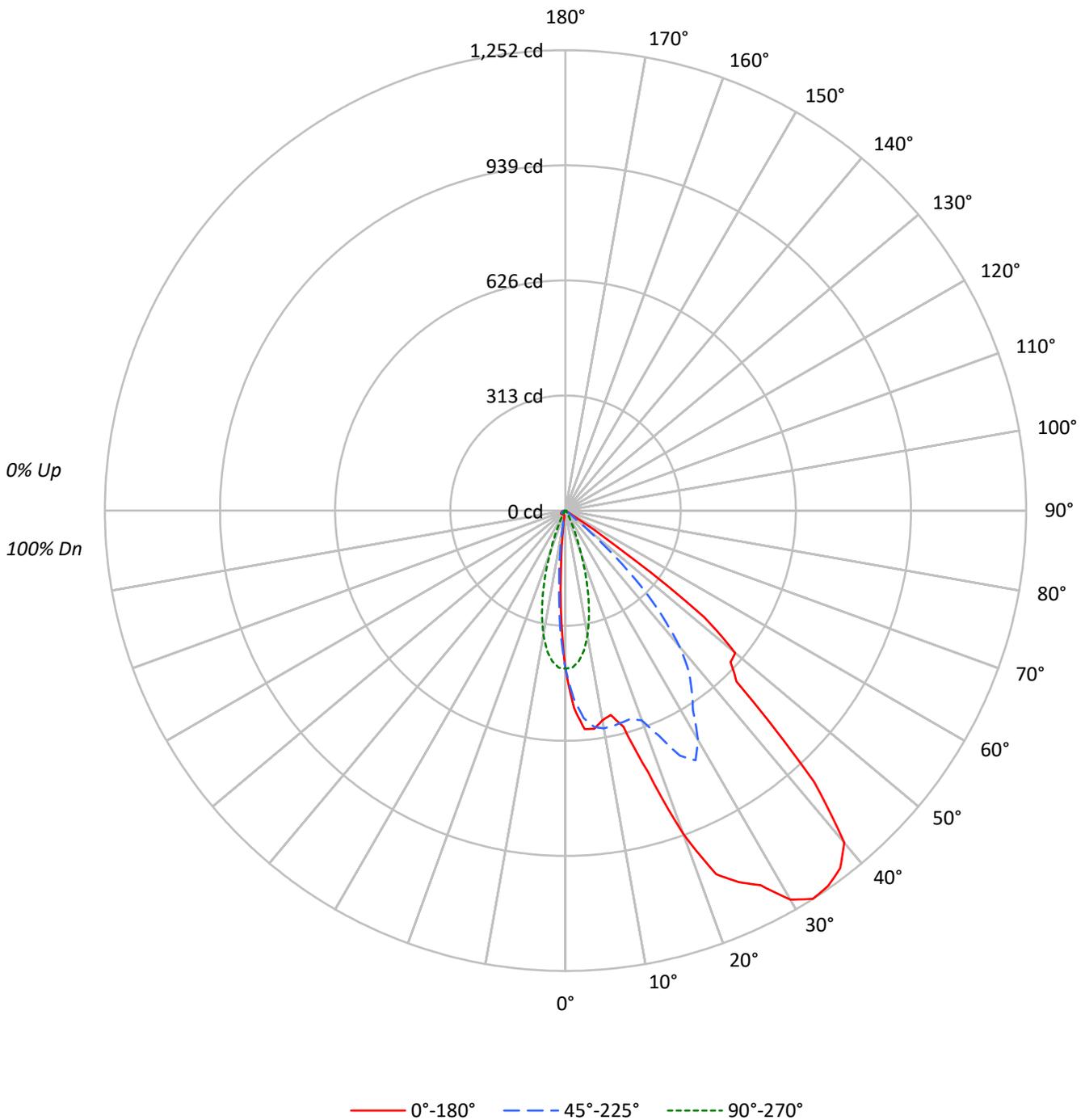
Test Method: LM-79-2019  
Report Number: P1326860  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R50W2N902750DE010 3LSQCA30R 1MW\_5000K  
Description: 3in Adjustable Tunable White LED luminaire with, R50 optic, 5000K CCT AND, 90CRI ,  
3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 668.0 lumens  
Efficiency: N/A  
Efficacy: 74.2 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2  
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	102	102	102	100
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	92	95	94	92	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	60	58
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	63	58	54	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	50	45	41	39
10	61	50	42	38	60	49	42	38	48	42	38	47	42	37	46	41	37	46	41	37	36

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

	0°	45°	90°	135°	180°
0°	73970	73970	73970	73970	73970
5°	103123	97850	71088	34178	22181
10°	101238	105155	60089	7205	3078
15°	108566	106266	42488	2514	2407
20°	171436	111267	22433	2163	2273
25°	211842	139746	8950	2014	2242
30°	242875	143322	3619	1989	2347
35°	261860	125790	1598	2102	2607
40°	265064	108319	1192	2383	2900
45°	160189	70218	1145	2582	3288
50°	161402	12137	1259	3001	3778
55°	47681	721	1411	3363	4234
60°	827	827	1412	3651	4650
65°	734	734	1426	3831	5053
70°	906	906	1460	4129	5640
75°	799	799	1597	4325	5856
80°	595	1190	1785	4066	6447
85°	1186	2371	2371	4742	5730

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 182986 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.7	5.2
10°-20°	86.2	12.9
20°-30°	161.5	24.2
30°-40°	193.1	28.9
40°-50°	138.4	20.7
50°-60°	42.7	6.4
60°-70°	5.6	0.8
70°-80°	4.1	0.6
80°-90°	1.7	0.2
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°	282.5	42.3
0°-40°	475.6	71.2
0°-60°	656.7	98.3
0°-90°	668.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	668.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	430	430	430	430	430	
5°	596	566	411	198	128	55
15°	609	596	238	14	14	195
25°	1115	735	47	11	12	514
35°	1246	598	8	10	12	773
45°	658	288	5	11	14	604
55°	159	2	5	11	14	204
65°	2	2	4	9	12	2
75°	1	1	2	6	9	1
85°	1	1	1	2	3	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	429.5	429.5	429.5	429.5	429.5	429.5	429.5	429.5	429.5	429.5	429.5
2.5°	537.1	538.3	540.1	535.4	532.4	530.1	526.0	524.8	514.8	510.7	506.5
5°	596.5	595.4	596.5	594.8	593.6	590.1	586.5	580.7	574.2	566.0	556.5
7.5°	598.3	597.1	599.5	599.5	601.8	601.8	601.8	602.4	598.9	593.0	584.8
10°	578.9	578.9	581.3	580.1	584.2	586.0	590.1	597.1	600.7	601.3	598.9
12.5°	568.9	568.9	569.5	567.1	568.3	570.1	574.8	583.0	591.3	599.5	604.2
15°	608.9	610.1	601.8	590.1	581.3	571.8	568.9	574.2	583.0	596.0	606.5
17.5°	744.8	746.6	737.7	709.5	682.4	643.6	608.9	591.8	582.4	593.0	607.1
20°	935.4	928.9	913.6	883.6	844.2	784.2	730.1	675.4	623.0	607.1	611.8
22.5°	1070.1	1067.8	1055.4	1021.9	987.8	931.9	863.1	786.6	710.7	662.4	637.1
25°	1114.8	1113.1	1101.9	1081.9	1063.1	1020.7	958.9	881.9	802.5	735.4	671.9
27.5°	1148.4	1146.0	1128.4	1106.0	1086.6	1043.7	987.2	928.9	856.0	765.4	667.7
30°	1221.3	1214.9	1190.2	1150.1	1113.1	1053.7	991.3	918.9	820.1	720.7	625.4
32.5°	1251.9	1248.4	1227.2	1194.9	1154.3	1076.6	981.9	860.7	730.7	644.8	575.4
35°	1245.5	1240.2	1218.4	1181.3	1131.9	1057.2	930.7	764.2	658.3	598.3	520.1
37.5°	1226.0	1218.4	1192.5	1149.0	1089.0	991.3	826.0	686.0	617.7	550.1	444.8
40°	1179.0	1166.6	1136.6	1091.3	1031.3	903.1	730.7	638.9	575.4	481.8	360.6
42.5°	999.0	992.5	1007.2	999.5	946.6	795.4	663.0	596.0	508.3	389.5	261.2
45°	657.7	668.9	695.4	740.7	751.3	684.2	607.7	525.4	418.3	288.3	150.6
47.5°	608.9	606.5	613.0	621.8	623.6	595.4	526.0	434.2	310.6	164.7	41.8
50°	602.4	598.9	593.6	583.0	560.7	505.9	427.1	316.5	179.4	45.3	2.9
52.5°	475.9	472.4	472.4	457.1	428.3	375.3	294.7	174.1	50.0	2.9	2.4
55°	158.8	169.4	167.7	167.1	180.0	165.9	127.1	44.7	4.1	2.4	2.4
57.5°	2.9	2.9	2.9	5.3	8.2	11.8	7.1	3.5	2.4	2.4	2.4
60°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
62.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
65°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.4
67.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
70°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	1.8	1.8
75°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8
77.5°	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.2
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6
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):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	429.5	429.5	429.5	429.5	429.5	429.5	429.5	429.5
2.5°	497.1	488.9	473.0	427.7	377.7	320.6	281.8	277.1
5°	541.8	529.5	503.6	411.2	297.1	197.7	147.1	128.3
7.5°	571.3	554.8	523.0	384.2	216.5	104.1	55.9	44.7
10°	588.9	573.6	533.0	343.6	137.7	41.2	18.8	17.6
12.5°	598.3	583.6	536.5	294.7	77.7	18.8	14.7	14.7
15°	604.8	588.9	531.2	238.3	38.8	14.1	13.5	13.5
17.5°	607.7	588.3	515.9	179.4	20.6	12.9	12.9	12.9
20°	609.5	581.8	487.7	122.4	14.1	11.8	12.4	12.4
22.5°	611.3	566.0	450.6	77.7	11.2	11.2	11.8	11.8
25°	607.7	538.3	398.3	47.1	10.0	10.6	11.2	11.8
27.5°	582.4	496.5	334.7	28.8	8.8	10.0	11.2	11.8
30°	538.9	435.4	261.2	18.2	8.2	10.0	11.2	11.8
32.5°	482.4	365.3	186.5	11.2	8.2	10.0	11.2	11.8
35°	406.5	279.4	121.2	7.6	8.2	10.0	11.8	12.4
37.5°	321.2	195.3	65.3	5.9	8.2	10.0	11.8	12.4
40°	231.2	117.1	23.5	5.3	7.6	10.6	12.4	12.9
42.5°	135.3	43.5	4.1	4.7	7.6	10.6	12.4	12.9
45°	38.8	4.7	2.4	4.7	7.6	10.6	12.9	13.5
47.5°	2.9	1.8	2.4	4.7	7.6	10.6	12.9	14.1
50°	1.8	1.8	1.8	4.7	7.6	11.2	13.5	14.1
52.5°	2.4	2.4	2.4	4.7	7.6	11.2	13.5	14.1
55°	2.4	2.4	2.4	4.7	7.6	11.2	13.5	14.1
57.5°	2.4	2.4	2.4	4.7	7.6	10.6	13.5	14.1
60°	2.4	2.4	2.4	4.1	7.1	10.6	12.9	13.5
62.5°	2.4	2.4	2.4	4.1	7.1	10.0	12.9	12.9
65°	2.4	2.4	2.4	3.5	6.5	9.4	11.8	12.4
67.5°	2.4	2.4	2.4	3.5	5.9	8.8	11.2	11.8
70°	1.8	2.4	2.4	2.9	5.3	8.2	10.6	11.2
72.5°	1.8	1.8	2.4	2.9	4.7	7.1	9.4	10.0
75°	1.8	1.8	1.8	2.4	4.1	6.5	8.2	8.8
77.5°	1.8	1.8	1.8	2.4	3.5	5.3	7.6	7.6
80°	1.2	1.8	1.8	1.8	2.9	4.1	5.9	6.5
82.5°	1.2	1.2	1.2	1.8	2.4	3.5	4.7	4.7
85°	1.2	1.2	1.2	1.2	1.8	2.4	2.9	2.9
87.5°	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)