

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: P1326859

Luminaire Tested: LDSQA3D09R50W2N902750DE010 3LSQCA30R 1MW\_4000K

Issue Date: 1/29/2026

**Test Information**

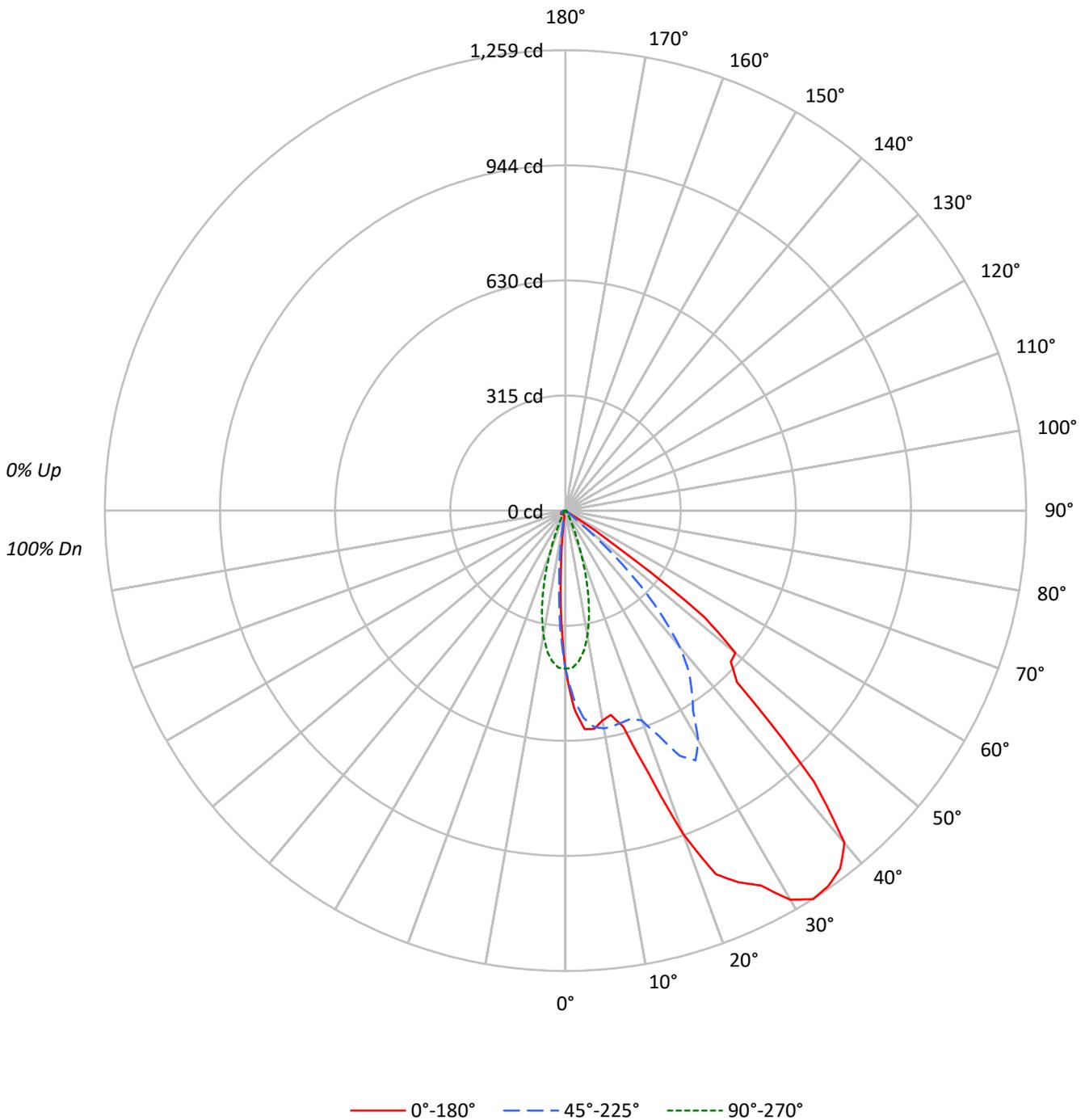
Test Method: LM-79-2019  
Report Number: P1326859  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R50W2N902750DE010 3LSQCA30R 1MW\_4000K  
Description: 3in Adjustable Tunable White LED luminaire with, R50 optic, 4000K CCT AND, 90CRI ,  
3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 672.0 lumens  
Efficiency: N/A  
Efficacy: 74.7 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°	74400	74400	74400	74400	74400
5°	103746	98421	71521	34386	22302
10°	101850	105785	60438	7240	3113
15°	109208	106890	42738	2532	2425
20°	172462	111945	22561	2163	2273
25°	213115	140582	8988	2033	2242
30°	244326	144178	3639	2009	2347
35°	263416	126546	1619	2123	2607
40°	266637	108971	1192	2406	2923
45°	161163	70632	1145	2606	3312
50°	162366	12218	1259	3001	3805
55°	47982	721	1411	3363	4264
60°	827	827	1412	3686	4684
65°	734	734	1467	3871	5053
70°	906	906	1511	4179	5640
75°	799	799	1597	4325	5922
80°	595	1190	1785	4066	6447
85°	1186	2371	2371	4742	5928

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 184082 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.9	5.2
10°-20°	86.7	12.9
20°-30°	162.5	24.2
30°-40°	194.3	28.9
40°-50°	139.2	20.7
50°-60°	42.9	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°	284.2	42.3
0°-40°	478.5	71.2
0°-60°	660.6	98.3
0°-90°	672.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	672.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	432	432	432	432	432	
5°	600	569	414	199	129	56
15°	612	600	240	14	14	196
25°	1122	740	47	11	12	517
35°	1253	602	8	10	12	777
45°	662	290	5	11	14	608
55°	160	2	5	11	14	206
65°	2	2	4	10	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°	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0
2.5°	540.3	541.5	543.3	538.6	535.6	533.2	529.1	527.9	517.9	513.7	509.6
5°	600.1	598.9	600.1	598.3	597.2	593.6	590.1	584.1	577.6	569.3	559.9
7.5°	601.9	600.7	603.1	603.1	605.4	605.4	605.4	606.0	602.5	596.6	588.3
10°	582.4	582.4	584.7	583.5	587.7	589.5	593.6	600.7	604.3	604.9	602.5
12.5°	572.3	572.3	572.9	570.5	571.7	573.5	578.2	586.5	594.8	603.1	607.8
15°	612.5	613.7	605.4	593.6	584.7	575.3	572.3	577.6	586.5	599.5	610.2
17.5°	749.3	751.0	742.2	713.8	686.5	647.5	612.5	595.4	585.9	596.6	610.8
20°	941.0	934.5	919.1	888.9	849.3	788.9	734.5	679.4	626.8	610.8	615.5
22.5°	1076.5	1074.2	1061.8	1028.0	993.7	937.5	868.2	791.3	714.9	666.4	641.0
25°	1121.5	1119.7	1108.5	1088.4	1069.4	1026.8	964.7	887.2	807.3	739.8	675.9
27.5°	1155.3	1152.9	1135.1	1112.6	1093.1	1049.9	993.1	934.5	861.1	770.0	671.7
30°	1228.6	1222.1	1197.3	1157.0	1119.7	1060.0	997.2	924.4	825.0	725.0	629.1
32.5°	1259.4	1255.9	1234.6	1202.0	1161.2	1083.1	987.8	865.9	735.1	648.7	578.8
35°	1252.9	1247.6	1225.7	1188.4	1138.7	1063.5	936.3	768.8	662.3	601.9	523.2
37.5°	1233.4	1225.7	1199.6	1155.9	1095.5	997.2	830.9	690.1	621.4	553.4	447.4
40°	1186.0	1173.6	1143.4	1097.9	1037.5	908.5	735.1	642.7	578.8	484.7	362.8
42.5°	1004.9	998.4	1013.2	1005.5	952.3	800.2	667.0	599.5	511.3	391.8	262.8
45°	661.7	672.9	699.5	745.1	755.8	688.3	611.4	528.5	420.8	290.0	151.5
47.5°	612.5	610.2	616.7	625.6	627.3	598.9	529.1	436.8	312.5	165.7	42.0
50°	606.0	602.5	597.2	586.5	564.0	509.0	429.7	318.4	180.5	45.6	3.0
52.5°	478.8	475.2	475.2	459.9	430.9	377.6	296.5	175.2	50.3	3.0	2.4
55°	159.8	170.4	168.7	168.1	181.1	166.9	127.8	45.0	4.1	2.4	2.4
57.5°	3.0	3.0	3.0	5.3	8.3	11.8	7.1	3.6	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°	432.0	432.0	432.0	432.0	432.0	432.0	432.0	432.0
2.5°	500.1	491.8	475.8	430.3	380.0	322.5	283.5	278.8
5°	545.1	532.7	506.6	413.7	298.9	198.9	148.0	129.0
7.5°	574.7	558.1	526.1	386.5	217.8	104.8	56.2	45.0
10°	592.4	577.0	536.2	345.6	138.5	41.4	18.9	17.8
12.5°	601.9	587.1	539.8	296.5	78.1	18.9	14.8	14.8
15°	608.4	592.4	534.4	239.7	39.1	14.2	13.6	13.6
17.5°	611.4	591.8	519.0	180.5	20.7	13.0	13.0	13.0
20°	613.1	585.3	490.6	123.1	14.2	11.8	12.4	12.4
22.5°	614.9	569.3	453.3	78.1	11.2	11.2	11.8	11.8
25°	611.4	541.5	400.7	47.3	10.1	10.7	11.2	11.8
27.5°	585.9	499.5	336.8	29.0	8.9	10.1	11.2	11.8
30°	542.1	438.0	262.8	18.3	8.3	10.1	11.2	11.8
32.5°	485.3	367.5	187.6	11.2	8.3	10.1	11.2	11.8
35°	409.0	281.1	121.9	7.7	8.3	10.1	11.8	12.4
37.5°	323.1	196.5	65.7	5.9	8.3	10.1	11.8	12.4
40°	232.6	117.8	23.7	5.3	7.7	10.7	12.4	13.0
42.5°	136.1	43.8	4.1	4.7	7.7	10.7	12.4	13.0
45°	39.1	4.7	2.4	4.7	7.7	10.7	13.0	13.6
47.5°	3.0	1.8	2.4	4.7	7.7	10.7	13.0	14.2
50°	1.8	1.8	1.8	4.7	7.7	11.2	13.6	14.2
52.5°	2.4	2.4	2.4	4.7	7.7	11.2	13.6	14.2
55°	2.4	2.4	2.4	4.7	7.7	11.2	13.6	14.2
57.5°	2.4	2.4	2.4	4.7	7.7	10.7	13.6	14.2
60°	2.4	2.4	2.4	4.1	7.1	10.7	13.0	13.6
62.5°	2.4	2.4	2.4	4.1	7.1	10.1	13.0	13.0
65°	2.4	2.4	2.4	3.6	6.5	9.5	11.8	12.4
67.5°	2.4	2.4	2.4	3.6	5.9	8.9	11.2	11.8
70°	1.8	2.4	2.4	3.0	5.3	8.3	10.7	11.2
72.5°	1.8	1.8	2.4	3.0	4.7	7.1	9.5	10.1
75°	1.8	1.8	1.8	2.4	4.1	6.5	8.3	8.9
77.5°	1.8	1.8	1.8	2.4	3.6	5.3	7.7	7.7
80°	1.2	1.8	1.8	1.8	3.0	4.1	5.9	6.5
82.5°	1.2	1.2	1.2	1.8	2.4	3.6	4.7	4.7
85°	1.2	1.2	1.2	1.2	1.8	2.4	3.0	3.0
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)