

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: P1326903

Luminaire Tested: LDSQA3D09R50W2N902765DE010 3LSQCA30R 1MW\_2700K

Issue Date: 1/29/2026

**Test Information**

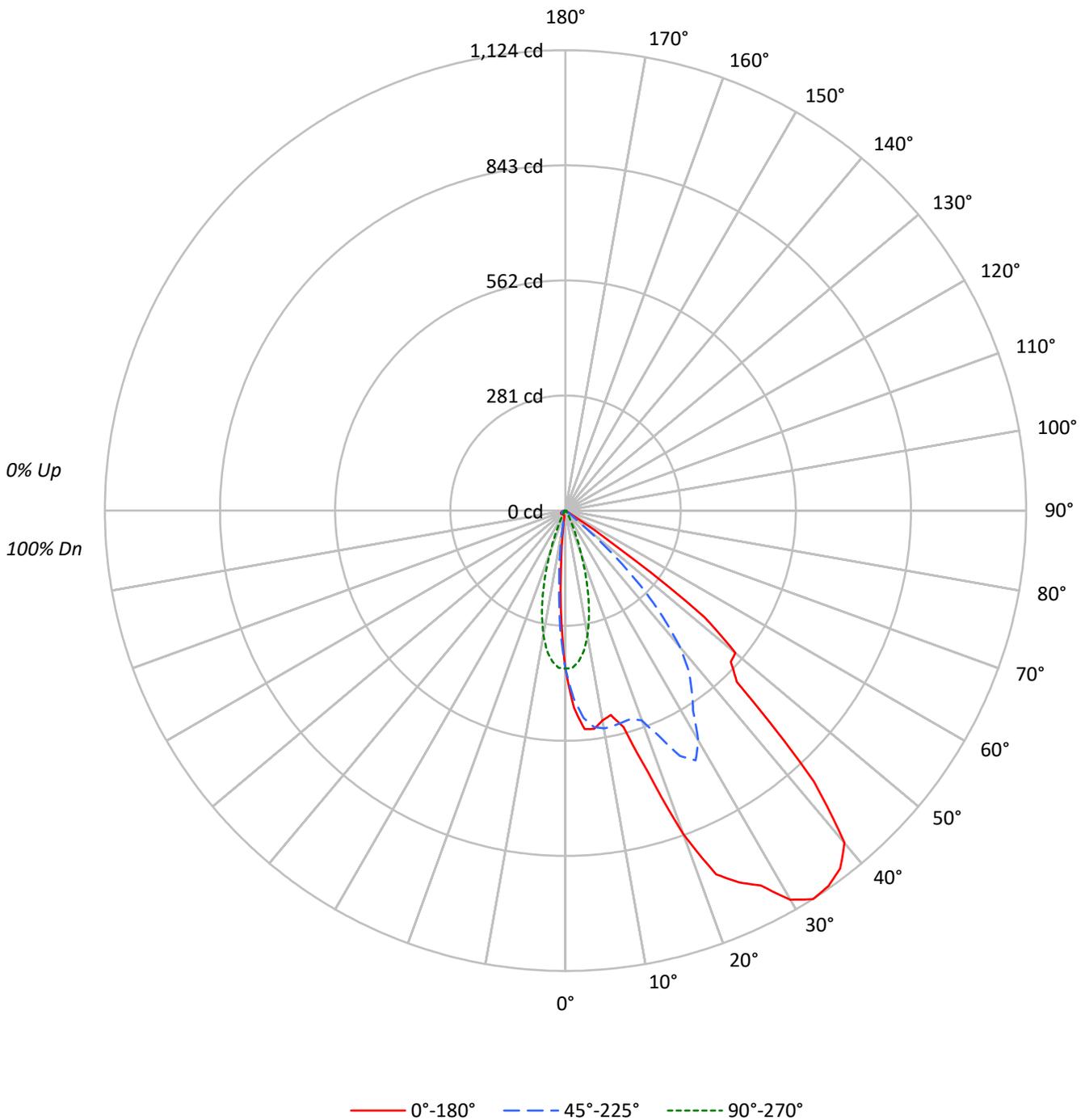
Test Method: LM-79-2019  
Report Number: P1326903  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R50W2N902765DE010 3LSQCA30R 1MW\_2700K  
Description: 3in Adjustable Tunable White LED luminaire with, R50 optic, 2700K CCT AND, 90CRI ,  
3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 600.0 lumens  
Efficiency: N/A  
Efficacy: 66.7 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	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	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	88	85	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	81	77	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	74	70	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	58
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	63	58	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	50	45	39
10	61	50	42	38	60	49	42	38	48	42	38	47	42	37	46	41	37	46	41	36

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

	0°	45°	90°	135°	180°
0°	66426	66426	66426	66426	66426
5°	92629	87875	63862	30704	19916
10°	90937	94435	53968	6471	2781
15°	97511	95443	38156	2264	2175
20°	153988	99940	20142	1943	2034
25°	190293	125513	8038	1805	2014
30°	218156	128726	3261	1790	2108
35°	235201	112986	1451	1892	2334
40°	238085	97302	1079	2136	2608
45°	143895	63058	1023	2314	2971
50°	144977	10905	1125	2679	3403
55°	42847	631	1261	3003	3813
60°	723	723	1274	3272	4202
65°	652	652	1304	3464	4523
70°	806	806	1309	3726	5035
75°	732	732	1397	3859	5257
80°	496	1091	1587	3670	5752
85°	988	2174	2174	4150	5138

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 164354 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.2	5.2
10°-20°	77.5	12.9
20°-30°	145.1	24.2
30°-40°	173.5	28.9
40°-50°	124.3	20.7
50°-60°	38.3	6.4
60°-70°	5.0	0.8
70°-80°	3.6	0.6
80°-90°	1.5	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°	253.7	42.3
0°-40°	427.2	71.2
0°-60°	589.9	98.3
0°-90°	600.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	600.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	386	386	386	386	386	
5°	536	508	369	178	115	50
15°	547	535	214	13	12	175
25°	1001	660	42	10	11	461
35°	1119	537	7	9	11	694
45°	591	259	4	10	12	543
55°	143	2	4	10	13	184
65°	2	2	3	8	11	2
75°	1	1	2	6	8	1
85°	0	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°	385.7	385.7	385.7	385.7	385.7	385.7	385.7	385.7	385.7	385.7	385.7
2.5°	482.5	483.5	485.1	480.9	478.2	476.1	472.4	471.4	462.4	458.7	455.0
5°	535.8	534.8	535.8	534.2	533.2	530.0	526.8	521.6	515.7	508.3	499.9
7.5°	537.4	536.3	538.5	538.5	540.6	540.6	540.6	541.1	537.9	532.7	525.3
10°	520.0	520.0	522.1	521.0	524.7	526.3	530.0	536.3	539.5	540.0	537.9
12.5°	511.0	511.0	511.5	509.4	510.5	512.0	516.3	523.7	531.1	538.5	542.7
15°	546.9	548.0	540.6	530.0	522.1	513.6	511.0	515.7	523.7	535.3	544.8
17.5°	669.0	670.6	662.6	637.3	613.0	578.1	546.9	531.6	523.1	532.7	545.3
20°	840.2	834.4	820.6	793.7	758.3	704.4	655.8	606.6	559.6	545.3	549.6
22.5°	961.2	959.1	948.0	917.9	887.2	837.0	775.2	706.5	638.3	595.0	572.3
25°	1001.4	999.8	989.7	971.8	954.9	916.8	861.3	792.1	720.8	660.5	603.5
27.5°	1031.5	1029.4	1013.5	993.4	976.0	937.4	886.7	834.4	768.9	687.5	599.8
30°	1097.0	1091.2	1069.0	1033.1	999.8	946.4	890.4	825.4	736.6	647.3	561.7
32.5°	1124.5	1121.3	1102.3	1073.2	1036.8	967.0	881.9	773.1	656.3	579.2	516.8
35°	1118.7	1113.9	1094.4	1061.1	1016.7	949.6	836.0	686.4	591.3	537.4	467.1
37.5°	1101.2	1094.4	1071.1	1032.0	978.1	890.4	741.9	616.1	554.8	494.1	399.5
40°	1059.0	1047.9	1020.9	980.2	926.3	811.1	656.3	573.9	516.8	432.8	323.9
42.5°	897.3	891.4	904.7	897.8	850.2	714.4	595.5	535.3	456.6	349.8	234.6
45°	590.8	600.8	624.6	665.3	674.8	614.6	545.9	471.9	375.7	258.9	135.3
47.5°	546.9	544.8	550.6	558.5	560.1	534.8	472.4	390.0	279.0	148.0	37.5
50°	541.1	537.9	533.2	523.7	503.6	454.4	383.6	284.3	161.2	40.7	2.6
52.5°	427.5	424.3	424.3	410.6	384.7	337.1	264.7	156.4	44.9	2.6	2.1
55°	142.7	152.2	150.6	150.1	161.7	149.0	114.1	40.2	3.7	2.1	2.1
57.5°	2.6	2.6	2.6	4.8	7.4	10.6	6.3	3.2	2.1	2.1	2.1
60°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
62.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
65°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.1
67.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
70°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.6	1.6	1.6
75°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.6
77.5°	0.5	0.5	0.5	0.5	1.1	1.1	1.1	1.1	1.1	1.1	1.1
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.1	1.1
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.1
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5
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°	385.7	385.7	385.7	385.7	385.7	385.7	385.7	385.7
2.5°	446.5	439.1	424.9	384.2	339.2	288.0	253.1	248.9
5°	486.7	475.6	452.3	369.4	266.9	177.6	132.1	115.2
7.5°	513.1	498.3	469.8	345.1	194.5	93.5	50.2	40.2
10°	529.0	515.2	478.8	308.6	123.7	37.0	16.9	15.9
12.5°	537.4	524.2	481.9	264.7	69.8	16.9	13.2	13.2
15°	543.2	529.0	477.2	214.0	34.9	12.7	12.2	12.2
17.5°	545.9	528.4	463.4	161.2	18.5	11.6	11.6	11.6
20°	547.4	522.6	438.1	109.9	12.7	10.6	11.1	11.1
22.5°	549.0	508.3	404.8	69.8	10.0	10.0	10.6	10.6
25°	545.9	483.5	357.7	42.3	9.0	9.5	10.0	10.6
27.5°	523.1	446.0	300.7	25.9	7.9	9.0	10.0	10.6
30°	484.0	391.0	234.6	16.4	7.4	9.0	10.0	10.6
32.5°	433.3	328.2	167.5	10.0	7.4	9.0	10.0	10.6
35°	365.1	251.0	108.9	6.9	7.4	9.0	10.6	11.1
37.5°	288.5	175.4	58.7	5.3	7.4	9.0	10.6	11.1
40°	207.7	105.2	21.1	4.8	6.9	9.5	11.1	11.6
42.5°	121.5	39.1	3.7	4.2	6.9	9.5	11.1	11.6
45°	34.9	4.2	2.1	4.2	6.9	9.5	11.6	12.2
47.5°	2.6	1.6	2.1	4.2	6.9	9.5	11.6	12.7
50°	1.6	1.6	1.6	4.2	6.9	10.0	12.2	12.7
52.5°	2.1	2.1	2.1	4.2	6.9	10.0	12.2	12.7
55°	2.1	2.1	2.1	4.2	6.9	10.0	12.2	12.7
57.5°	2.1	2.1	2.1	4.2	6.9	9.5	12.2	12.7
60°	2.1	2.1	2.1	3.7	6.3	9.5	11.6	12.2
62.5°	2.1	2.1	2.1	3.7	6.3	9.0	11.6	11.6
65°	2.1	2.1	2.1	3.2	5.8	8.5	10.6	11.1
67.5°	2.1	2.1	2.1	3.2	5.3	7.9	10.0	10.6
70°	1.6	2.1	2.1	2.6	4.8	7.4	9.5	10.0
72.5°	1.6	1.6	2.1	2.6	4.2	6.3	8.5	9.0
75°	1.6	1.6	1.6	2.1	3.7	5.8	7.4	7.9
77.5°	1.6	1.6	1.6	2.1	3.2	4.8	6.9	6.9
80°	1.1	1.6	1.6	1.6	2.6	3.7	5.3	5.8
82.5°	1.1	1.1	1.1	1.6	2.1	3.2	4.2	4.2
85°	1.1	1.1	1.1	1.1	1.6	2.1	2.6	2.6
87.5°	0.5	1.1	1.1	1.1	1.1	1.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)