

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: P1319132

Luminaire Tested: LDSQA3D09R509835DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1319132  
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: LDSQA3D09R509835DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

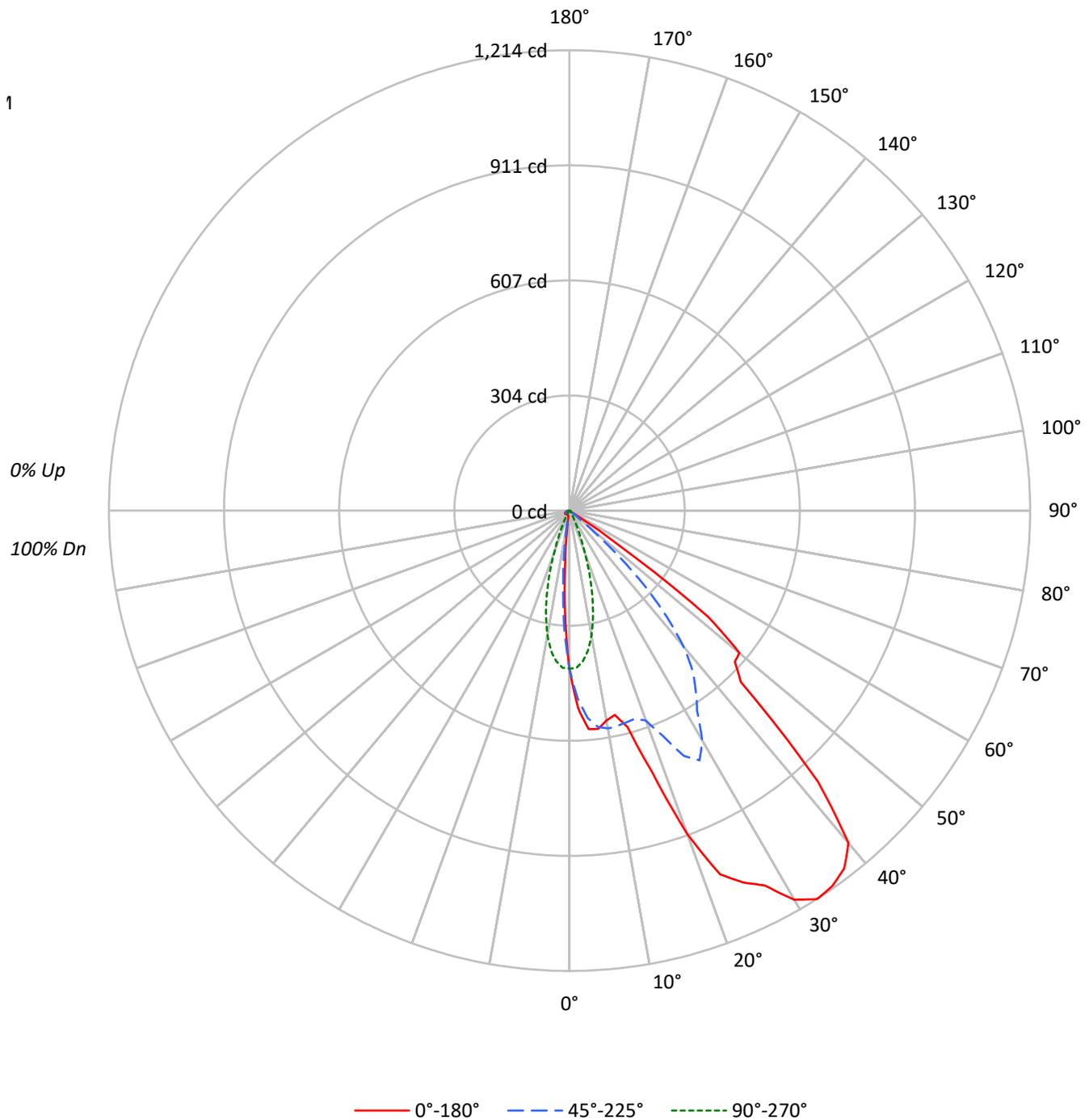
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 648.0 lumens  
Efficiency: N/A  
Efficacy: 58.9 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): 11  
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	93	95	94	93	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	51	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	43	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°	71748	71748	71748	71748	71748
5°	100046	94911	68962	33158	21506
10°	98212	102007	58287	6978	2990
15°	105321	103074	41205	2443	2336
20°	166304	107949	21755	2089	2199
25°	205514	135565	8684	1957	2166
30°	235616	139027	3520	1929	2267
35°	254018	122026	1556	2039	2523
40°	257127	105081	1147	2316	2833
45°	155391	68099	1120	2509	3191
50°	156579	11762	1232	2894	3671
55°	46270	691	1381	3243	4114
60°	792	792	1378	3548	4512
65°	693	693	1386	3708	4890
70°	856	856	1460	4028	5438
75°	732	732	1530	4192	5723
80°	595	1091	1686	3967	6248
85°	1186	2174	2174	4545	5730

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 177506 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.7	5.2
10°-20°	83.6	12.9
20°-30°	156.7	24.2
30°-40°	187.4	28.9
40°-50°	134.3	20.7
50°-60°	41.4	6.4
60°-70°	5.4	0.8
70°-80°	3.9	0.6
80°-90°	1.6	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°	274.0	42.3
0°-40°	461.4	71.2
0°-60°	637.1	98.3
0°-90°	648.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	648.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	417	417	417	417	417	
5°	579	549	399	192	124	54
15°	591	578	231	14	13	189
25°	1082	713	46	10	11	498
35°	1208	580	7	10	12	750
45°	638	280	5	10	13	586
55°	154	2	5	11	14	198
65°	2	2	3	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°	416.6	416.6	416.6	416.6	416.6	416.6	416.6	416.6	416.6	416.6	416.6
2.5°	521.0	522.2	523.9	519.3	516.5	514.2	510.2	509.1	499.4	495.4	491.4
5°	578.7	577.5	578.7	577.0	575.8	572.4	569.0	563.3	557.0	549.0	539.9
7.5°	580.4	579.3	581.5	581.5	583.8	583.8	583.8	584.4	581.0	575.3	567.3
10°	561.6	561.6	563.8	562.7	566.7	568.4	572.4	579.3	582.7	583.3	581.0
12.5°	551.9	551.9	552.4	550.2	551.3	553.0	557.6	565.6	573.6	581.5	586.1
15°	590.7	591.8	583.8	572.4	563.8	554.7	551.9	557.0	565.6	578.1	588.4
17.5°	722.5	724.2	715.7	688.3	662.0	624.3	590.7	574.1	565.0	575.3	589.0
20°	907.4	901.1	886.3	857.2	819.0	760.7	708.2	655.2	604.4	589.0	593.5
22.5°	1038.1	1035.8	1023.8	991.3	958.2	904.0	837.2	763.0	689.4	642.6	618.1
25°	1081.5	1079.8	1068.9	1049.5	1031.2	990.2	930.2	855.5	778.4	713.4	651.7
27.5°	1114.0	1111.7	1094.6	1072.9	1054.1	1012.4	957.6	901.1	830.4	742.5	647.7
30°	1184.8	1178.5	1154.5	1115.7	1079.8	1022.1	961.6	891.4	795.6	699.1	606.7
32.5°	1214.4	1211.0	1190.5	1159.1	1119.7	1044.4	952.5	834.9	708.8	625.5	558.1
35°	1208.2	1203.0	1181.9	1146.0	1098.0	1025.5	902.8	741.3	638.6	580.4	504.5
37.5°	1189.3	1181.9	1156.8	1114.6	1056.4	961.6	801.3	665.4	599.2	533.6	431.4
40°	1143.7	1131.7	1102.6	1058.6	1000.4	876.0	708.8	619.8	558.1	467.4	349.8
42.5°	969.0	962.8	977.0	969.6	918.3	771.6	643.2	578.1	493.1	377.8	253.4
45°	638.0	648.9	674.6	718.5	728.8	663.7	589.5	509.6	405.8	279.6	146.1
47.5°	590.7	588.4	594.7	603.2	604.9	577.5	510.2	421.2	301.3	159.8	40.5
50°	584.4	581.0	575.8	565.6	543.9	490.8	414.3	307.0	174.1	43.9	2.9
52.5°	461.7	458.3	458.3	443.4	415.5	364.1	285.9	168.9	48.5	2.9	2.3
55°	154.1	164.4	162.6	162.1	174.6	160.9	123.3	43.4	4.0	2.3	2.3
57.5°	2.9	2.9	2.9	5.1	8.0	11.4	6.8	3.4	2.3	2.3	2.3
60°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
62.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
65°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.3
67.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
70°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.7	1.7	1.7
75°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.7
77.5°	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.1	1.1
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.1
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°	416.6	416.6	416.6	416.6	416.6	416.6	416.6	416.6
2.5°	482.2	474.2	458.8	414.9	366.4	311.0	273.4	268.8
5°	525.6	513.6	488.5	398.9	288.2	191.8	142.7	124.4
7.5°	554.1	538.2	507.3	372.7	210.0	101.0	54.2	43.4
10°	571.3	556.4	517.1	333.3	133.5	39.9	18.3	17.1
12.5°	580.4	566.1	520.5	285.9	75.3	18.3	14.3	14.3
15°	586.7	571.3	515.3	231.1	37.7	13.7	13.1	13.1
17.5°	589.5	570.7	500.5	174.1	20.0	12.6	12.6	12.6
20°	591.2	564.4	473.1	118.7	13.7	11.4	12.0	12.0
22.5°	593.0	549.0	437.2	75.3	10.8	10.8	11.4	11.4
25°	589.5	522.2	386.4	45.7	9.7	10.3	10.8	11.4
27.5°	565.0	481.7	324.7	28.0	8.6	9.7	10.8	11.4
30°	522.8	422.3	253.4	17.7	8.0	9.7	10.8	11.4
32.5°	468.0	354.4	180.9	10.8	8.0	9.7	10.8	11.4
35°	394.4	271.1	117.6	7.4	8.0	9.7	11.4	12.0
37.5°	311.6	189.5	63.3	5.7	8.0	9.7	11.4	12.0
40°	224.3	113.6	22.8	5.1	7.4	10.3	12.0	12.6
42.5°	131.3	42.2	4.0	4.6	7.4	10.3	12.0	12.6
45°	37.7	4.6	2.3	4.6	7.4	10.3	12.6	13.1
47.5°	2.9	1.7	2.3	4.6	7.4	10.3	12.6	13.7
50°	1.7	1.7	1.7	4.6	7.4	10.8	13.1	13.7
52.5°	2.3	2.3	2.3	4.6	7.4	10.8	13.1	13.7
55°	2.3	2.3	2.3	4.6	7.4	10.8	13.1	13.7
57.5°	2.3	2.3	2.3	4.6	7.4	10.3	13.1	13.7
60°	2.3	2.3	2.3	4.0	6.8	10.3	12.6	13.1
62.5°	2.3	2.3	2.3	4.0	6.8	9.7	12.6	12.6
65°	2.3	2.3	2.3	3.4	6.3	9.1	11.4	12.0
67.5°	2.3	2.3	2.3	3.4	5.7	8.6	10.8	11.4
70°	1.7	2.3	2.3	2.9	5.1	8.0	10.3	10.8
72.5°	1.7	1.7	2.3	2.9	4.6	6.8	9.1	9.7
75°	1.7	1.7	1.7	2.3	4.0	6.3	8.0	8.6
77.5°	1.7	1.7	1.7	2.3	3.4	5.1	7.4	7.4
80°	1.1	1.7	1.7	1.7	2.9	4.0	5.7	6.3
82.5°	1.1	1.1	1.1	1.7	2.3	3.4	4.6	4.6
85°	1.1	1.1	1.1	1.1	1.7	2.3	2.9	2.9
87.5°	0.6	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)