

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: P1313555

Luminaire Tested: LDSQA3D09R509727DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1313555  
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: LDSQA3D09R509727DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

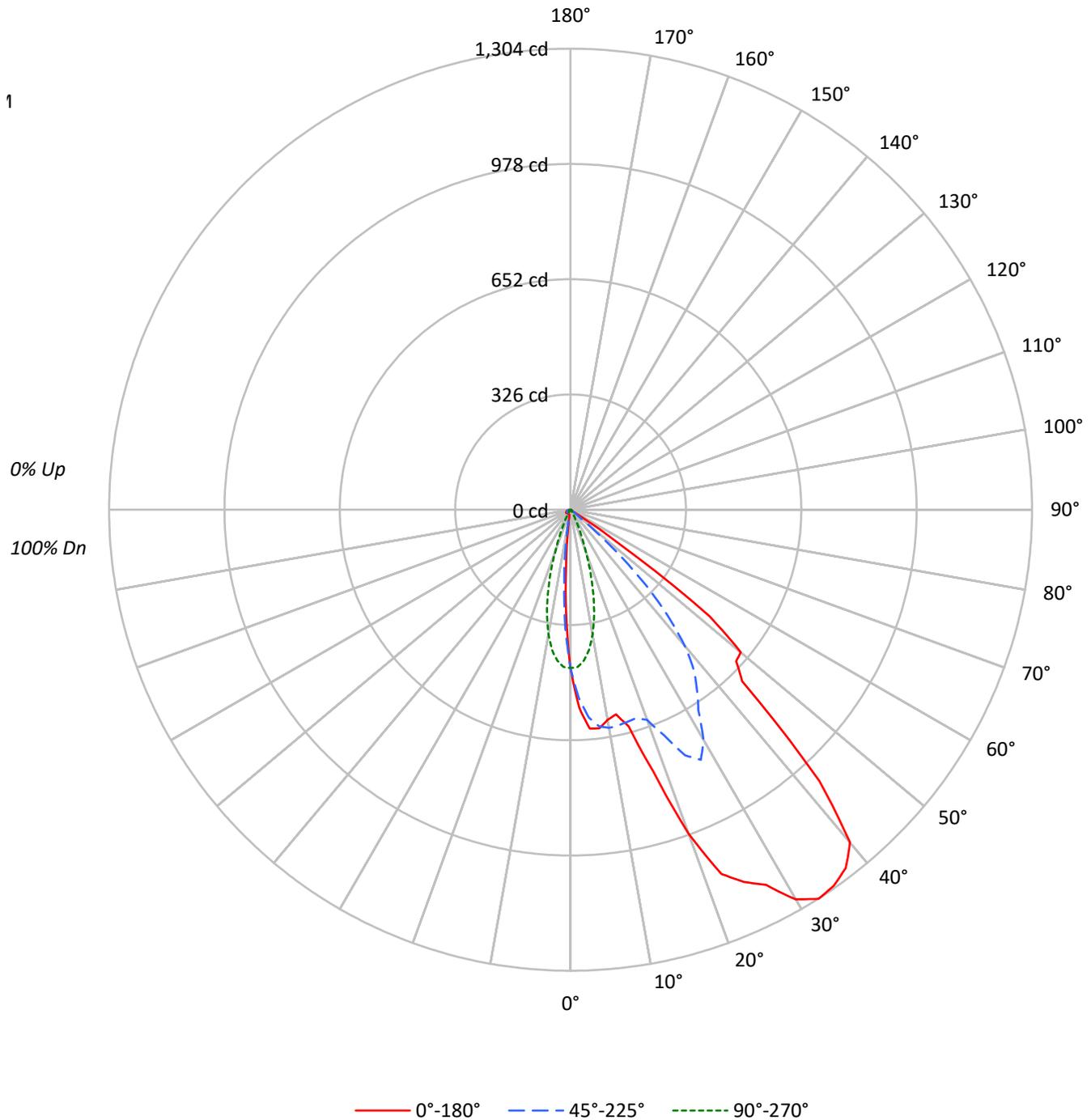
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 696.0 lumens  
Efficiency: N/A  
Efficacy: 62.7 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): 11.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	77070	77070	77070	77070	77070
5°	107463	101948	74079	35613	23097
10°	105487	109562	62607	7502	3218
15°	113112	110705	44271	2621	2514
20°	178620	115940	23368	2254	2364
25°	220735	145598	9311	2090	2337
30°	253056	149328	3778	2068	2446
35°	272835	131067	1682	2187	2712
40°	276170	112860	1237	2473	3035
45°	166911	73165	1193	2679	3434
50°	168180	12646	1313	3108	3939
55°	49693	751	1471	3483	4414
60°	861	861	1481	3789	4857
65°	734	734	1508	3994	5257
70°	906	906	1561	4330	5841
75°	799	799	1664	4458	6122
80°	595	1190	1785	4265	6645
85°	1186	2371	2371	4940	6126

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 190658 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.2	5.2
10°-20°	89.8	12.9
20°-30°	168.3	24.2
30°-40°	201.2	28.9
40°-50°	144.2	20.7
50°-60°	44.5	6.4
60°-70°	5.8	0.8
70°-80°	4.2	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°	294.3	42.3
0°-40°	495.6	71.2
0°-60°	684.3	98.3
0°-90°	696.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	696.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	448	448	448	448	448	
5°	622	590	428	206	134	58
15°	634	621	248	15	14	203
25°	1162	766	49	11	12	535
35°	1298	623	8	10	13	805
45°	685	300	5	11	14	629
55°	166	2	5	12	15	213
65°	2	2	4	10	13	2
75°	1	1	2	7	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°	447.5	447.5	447.5	447.5	447.5	447.5	447.5	447.5	447.5	447.5	447.5
2.5°	559.6	560.9	562.7	557.8	554.7	552.3	548.0	546.8	536.3	532.1	527.8
5°	621.6	620.3	621.6	619.7	618.5	614.8	611.1	605.0	598.3	589.7	579.9
7.5°	623.4	622.2	624.6	624.6	627.1	627.1	627.1	627.7	624.0	617.9	609.3
10°	603.2	603.2	605.6	604.4	608.7	610.5	614.8	622.2	625.8	626.5	624.0
12.5°	592.7	592.7	593.4	590.9	592.1	594.0	598.9	607.5	616.0	624.6	629.5
15°	634.4	635.7	627.1	614.8	605.6	595.8	592.7	598.3	607.5	620.9	632.0
17.5°	776.0	777.9	768.7	739.2	711.0	670.6	634.4	616.6	606.8	617.9	632.6
20°	974.6	967.9	951.9	920.7	879.6	817.1	760.7	703.7	649.1	632.6	637.5
22.5°	1115.0	1112.5	1099.7	1064.7	1029.2	970.9	899.2	819.5	740.5	690.2	663.8
25°	1161.6	1159.7	1148.1	1127.3	1107.6	1063.5	999.1	918.8	836.1	766.2	700.0
27.5°	1196.5	1194.1	1175.7	1152.4	1132.2	1087.4	1028.6	967.9	891.9	797.5	695.7
30°	1272.5	1265.8	1240.0	1198.4	1159.7	1097.8	1032.9	957.5	854.5	750.9	651.6
32.5°	1304.4	1300.7	1278.7	1244.9	1202.6	1121.7	1023.0	896.8	761.3	671.8	599.5
35°	1297.7	1292.1	1269.5	1230.8	1179.4	1101.5	969.7	796.2	685.9	623.4	541.9
37.5°	1277.4	1269.5	1242.5	1197.1	1134.6	1032.9	860.6	714.7	643.6	573.1	463.4
40°	1228.4	1215.5	1184.3	1137.1	1074.5	940.9	761.3	665.7	599.5	502.0	375.8
42.5°	1040.8	1034.1	1049.4	1041.4	986.3	828.7	690.8	620.9	529.6	405.8	272.2
45°	685.3	696.9	724.5	771.7	782.8	712.9	633.2	547.4	435.8	300.4	156.9
47.5°	634.4	632.0	638.7	647.9	649.7	620.3	548.0	452.4	323.6	171.6	43.5
50°	627.7	624.0	618.5	607.5	584.2	527.2	445.0	329.8	187.0	47.2	3.1
52.5°	495.9	492.2	492.2	476.3	446.2	391.1	307.1	181.4	52.1	3.1	2.5
55°	165.5	176.5	174.7	174.1	187.6	172.9	132.4	46.6	4.3	2.5	2.5
57.5°	3.1	3.1	3.1	5.5	8.6	12.3	7.4	3.7	2.5	2.5	2.5
60°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
62.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
65°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.5
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°	447.5	447.5	447.5	447.5	447.5	447.5	447.5	447.5
2.5°	518.0	509.4	492.8	445.6	393.5	334.1	293.6	288.7
5°	564.5	551.7	524.7	428.5	309.6	206.0	153.2	133.6
7.5°	595.2	578.0	544.9	400.3	225.6	108.5	58.2	46.6
10°	613.6	597.6	555.4	358.0	143.4	42.9	19.6	18.4
12.5°	623.4	608.1	559.0	307.1	80.9	19.6	15.3	15.3
15°	630.1	613.6	553.5	248.3	40.5	14.7	14.1	14.1
17.5°	633.2	613.0	537.6	187.0	21.5	13.5	13.5	13.5
20°	635.0	606.2	508.2	127.5	14.7	12.3	12.9	12.9
22.5°	636.9	589.7	469.5	80.9	11.6	11.6	12.3	12.3
25°	633.2	560.9	415.0	49.0	10.4	11.0	11.6	12.3
27.5°	606.8	517.3	348.8	30.0	9.2	10.4	11.6	12.3
30°	561.5	453.6	272.2	19.0	8.6	10.4	11.6	12.3
32.5°	502.6	380.7	194.3	11.6	8.6	10.4	11.6	12.3
35°	423.6	291.2	126.3	8.0	8.6	10.4	12.3	12.9
37.5°	334.7	203.5	68.0	6.1	8.6	10.4	12.3	12.9
40°	240.9	122.0	24.5	5.5	8.0	11.0	12.9	13.5
42.5°	141.0	45.4	4.3	4.9	8.0	11.0	12.9	13.5
45°	40.5	4.9	2.5	4.9	8.0	11.0	13.5	14.1
47.5°	3.1	1.8	2.5	4.9	8.0	11.0	13.5	14.7
50°	1.8	1.8	1.8	4.9	8.0	11.6	14.1	14.7
52.5°	2.5	2.5	2.5	4.9	8.0	11.6	14.1	14.7
55°	2.5	2.5	2.5	4.9	8.0	11.6	14.1	14.7
57.5°	2.5	2.5	2.5	4.9	8.0	11.0	14.1	14.7
60°	2.5	2.5	2.5	4.3	7.4	11.0	13.5	14.1
62.5°	2.5	2.5	2.5	4.3	7.4	10.4	13.5	13.5
65°	2.5	2.5	2.5	3.7	6.7	9.8	12.3	12.9
67.5°	2.5	2.5	2.5	3.7	6.1	9.2	11.6	12.3
70°	1.8	2.5	2.5	3.1	5.5	8.6	11.0	11.6
72.5°	1.8	1.8	2.5	3.1	4.9	7.4	9.8	10.4
75°	1.8	1.8	1.8	2.5	4.3	6.7	8.6	9.2
77.5°	1.8	1.8	1.8	2.5	3.7	5.5	8.0	8.0
80°	1.2	1.8	1.8	1.8	3.1	4.3	6.1	6.7
82.5°	1.2	1.2	1.2	1.8	2.5	3.7	4.9	4.9
85°	1.2	1.2	1.2	1.2	1.8	2.5	3.1	3.1
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)