

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: P1315508

Luminaire Tested: LDSQA3D09R559735DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1315508  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-66)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R559735DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R55 optic, 3500K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

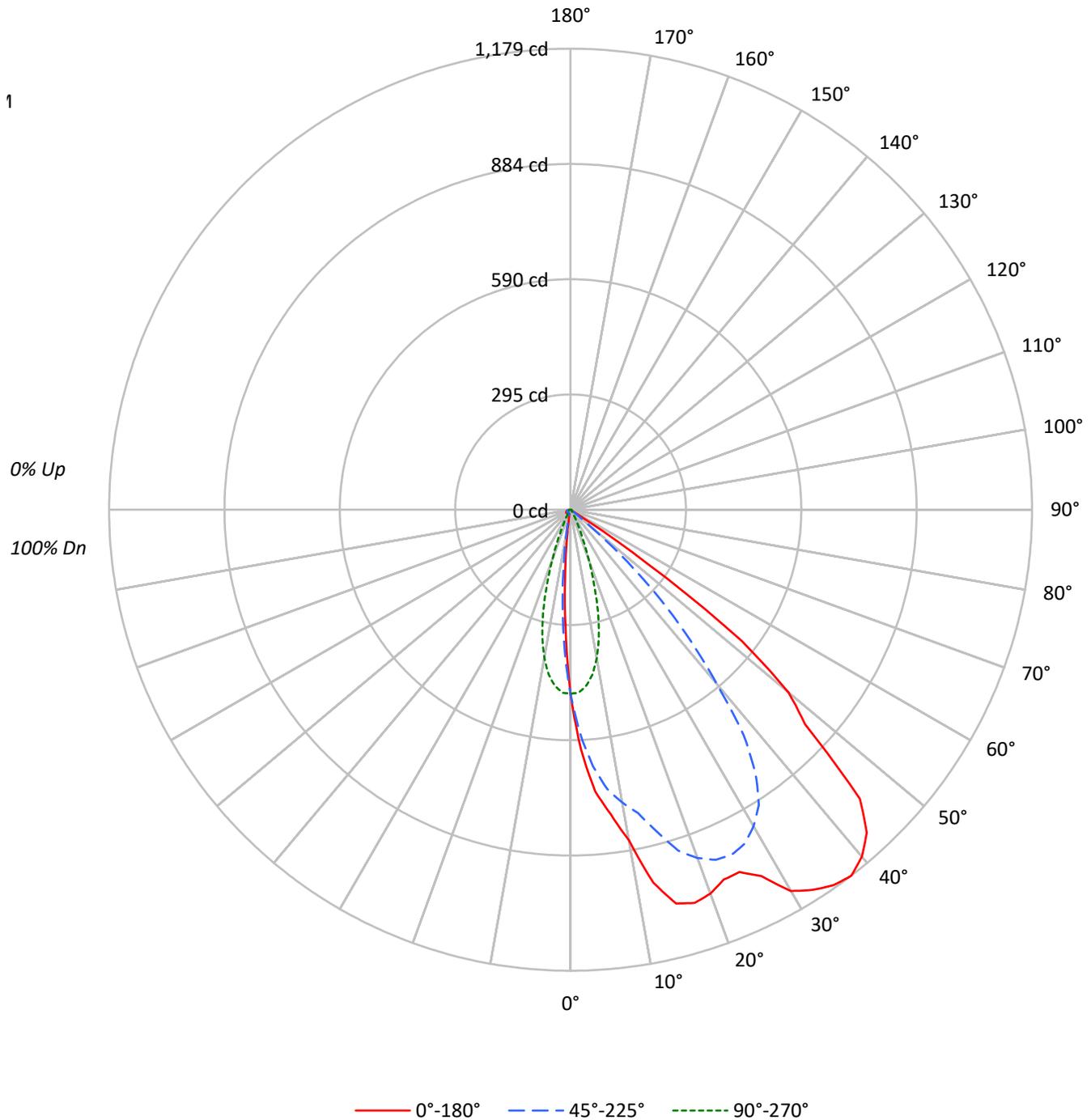
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 785.0 lumens  
Efficiency: N/A  
Efficacy: 70.7 lumens/watt  
Spacing Criteria (0/90/45): 1.79 / 0.55 / 1.22  
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	102	103	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	86	83	88	86	83	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	81	78	75	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	75	71	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	59	54	50	48
8	70	58	51	46	68	58	51	46	57	50	46	55	50	46	54	49	45	54	49	45	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	50	45	41	40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	47	42	38	37

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

	0°	45°	90°	135°	180°
0°	81031	81031	81031	81031	81031
5°	124958	113755	78280	40195	26399
10°	150134	132961	67381	10143	4057
15°	185893	151856	48140	2799	2193
20°	191468	173709	24870	1869	1869
25°	194226	185029	9976	1691	1938
30°	223883	185919	4335	1770	2028
35°	246449	173326	1871	1871	2292
40°	260297	130463	1079	2136	2451
45°	254593	79717	999	2314	2996
50°	194759	16987	1099	2733	3483
55°	71462	601	1231	3063	3903
60°	689	689	1412	3513	4478
65°	815	815	1671	3627	4727
70°	705	1007	1712	4129	5489
75°	466	932	1797	4525	6321
80°	694	1389	1984	4761	6744
85°	0	1383	2766	5335	6719

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 254593 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.4	5.3
10°-20°	118.6	15.1
20°-30°	182.0	23.2
30°-40°	212.0	27.0
40°-50°	169.4	21.6
50°-60°	50.2	6.4
60°-70°	5.4	0.7
70°-80°	4.2	0.5
80°-90°	1.8	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°	342.0	43.6
0°-40°	554.0	70.6
0°-60°	773.6	98.6
0°-90°	785.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	785.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	470	470	470	470	470	
5°	723	658	453	232	153	72
15°	1043	852	270	16	12	288
25°	1022	974	52	9	10	486
35°	1172	824	9	9	11	730
45°	1045	327	4	10	12	754
55°	238	2	4	10	13	252
65°	2	2	4	9	12	2
75°	1	1	3	7	10	1
85°	0	1	1	3	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°	470.5	470.5	470.5	470.5	470.5	470.5	470.5	470.5	470.5	470.5	470.5
2.5°	613.7	613.7	611.7	612.3	611.0	603.5	602.1	592.6	584.4	575.5	568.0
5°	722.8	724.2	722.1	718.0	712.6	707.1	695.5	686.7	675.1	658.0	642.3
7.5°	784.9	783.5	780.1	778.7	775.3	769.2	761.0	751.4	737.8	720.8	702.3
10°	858.5	846.9	843.5	838.0	827.1	814.9	800.5	787.6	776.0	760.3	740.5
12.5°	977.1	975.1	961.5	951.2	936.2	909.0	884.4	855.8	821.7	794.4	768.5
15°	1042.6	1044.0	1037.8	1029.6	1020.1	997.6	973.1	939.6	899.4	851.7	809.4
17.5°	1054.2	1056.2	1052.8	1049.4	1046.7	1033.7	1018.7	994.9	958.1	913.7	851.0
20°	1044.7	1048.7	1049.4	1053.5	1059.0	1053.5	1041.2	1024.9	994.2	947.8	887.8
22.5°	1023.5	1031.0	1036.5	1050.8	1065.1	1065.1	1057.6	1044.7	1014.6	969.0	907.6
25°	1022.1	1023.5	1025.6	1048.7	1071.2	1076.0	1069.2	1055.6	1022.8	973.7	906.9
27.5°	1056.2	1047.4	1033.7	1056.9	1083.5	1087.6	1078.1	1059.7	1020.8	962.8	883.7
30°	1125.8	1106.0	1077.4	1094.4	1112.8	1108.1	1089.0	1059.7	1007.1	934.9	840.1
32.5°	1152.4	1141.5	1131.3	1149.7	1153.1	1133.3	1099.2	1055.6	985.3	895.3	768.5
35°	1172.2	1172.8	1168.8	1172.2	1155.8	1127.8	1090.3	1033.1	944.4	824.4	673.7
37.5°	1179.0	1180.3	1171.5	1159.2	1134.7	1102.6	1057.6	992.1	876.2	726.9	530.5
40°	1157.8	1153.8	1139.4	1122.4	1095.8	1063.1	1014.0	916.5	774.6	580.3	413.9
42.5°	1120.3	1113.5	1096.5	1076.0	1048.1	1006.5	928.0	810.1	629.4	452.8	289.8
45°	1045.3	1040.6	1019.4	1004.4	971.0	917.1	816.2	667.6	486.9	327.3	167.7
47.5°	812.1	812.8	829.2	836.7	825.1	782.1	663.5	507.3	355.3	195.0	56.6
50°	726.9	723.5	707.1	684.6	647.1	583.0	486.9	358.7	210.0	63.4	8.2
52.5°	551.6	551.6	543.5	531.9	492.3	430.3	329.4	198.4	73.6	10.9	2.0
55°	238.0	225.7	232.5	245.5	235.3	204.6	154.1	59.3	13.0	2.0	2.0
57.5°	3.4	8.2	12.3	19.8	26.6	32.0	17.0	6.1	2.0	2.0	2.0
60°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
62.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
65°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
67.5°	1.4	1.4	1.4	2.0	1.4	2.0	2.0	2.0	2.0	2.0	2.0
70°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.0	2.0
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
75°	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4	1.4	1.4
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7
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°	470.5	470.5	470.5	470.5	470.5	470.5	470.5	470.5
2.5°	557.1	545.5	526.4	468.5	408.5	353.2	313.7	298.7
5°	624.6	603.5	571.4	452.8	333.4	232.5	175.2	152.7
7.5°	677.8	650.5	604.2	425.5	244.8	124.1	74.3	58.6
10°	713.3	683.3	622.6	385.3	162.3	58.0	28.0	23.2
12.5°	739.2	701.7	629.4	333.4	95.5	26.6	15.0	13.6
15°	758.3	709.8	621.2	270.0	52.5	15.7	12.3	12.3
17.5°	784.9	713.9	601.4	199.1	30.0	11.6	11.6	11.6
20°	805.3	713.9	563.9	135.7	18.4	10.2	10.2	10.2
22.5°	815.5	703.0	518.2	85.9	13.0	9.5	10.2	10.2
25°	805.3	676.4	459.6	52.5	10.2	8.9	9.5	10.2
27.5°	767.8	623.2	381.2	33.4	8.2	8.9	9.5	10.2
30°	705.1	546.2	292.5	21.8	7.5	8.9	9.5	10.2
32.5°	616.4	431.6	189.6	14.3	6.8	8.9	9.5	10.2
35°	481.4	305.5	114.6	8.9	6.8	8.9	10.2	10.9
37.5°	360.7	203.9	62.1	5.5	6.8	8.9	10.2	10.9
40°	250.3	118.6	26.6	4.8	6.8	9.5	10.9	10.9
42.5°	145.2	47.1	6.8	4.1	6.8	9.5	10.9	11.6
45°	53.2	9.5	2.0	4.1	7.5	9.5	10.9	12.3
47.5°	7.5	2.0	2.0	4.1	7.5	9.5	11.6	12.3
50°	2.0	2.0	2.0	4.1	7.5	10.2	12.3	13.0
52.5°	2.0	2.0	2.0	4.1	7.5	10.2	12.3	13.0
55°	2.0	2.0	2.0	4.1	7.5	10.2	12.3	13.0
57.5°	2.0	2.0	2.0	4.1	7.5	10.2	12.3	13.0
60°	2.0	2.0	2.0	4.1	6.8	10.2	12.3	13.0
62.5°	2.0	2.0	2.0	4.1	6.8	9.5	11.6	12.3
65°	2.0	2.0	2.0	4.1	6.1	8.9	11.6	11.6
67.5°	2.0	2.0	2.0	3.4	6.1	8.9	10.9	11.6
70°	2.0	2.0	2.0	3.4	5.5	8.2	10.2	10.9
72.5°	2.0	2.0	2.0	2.7	4.8	7.5	9.5	10.2
75°	1.4	2.0	2.0	2.7	4.8	6.8	8.9	9.5
77.5°	1.4	2.0	2.0	2.0	4.1	5.5	7.5	8.2
80°	1.4	1.4	2.0	2.0	3.4	4.8	6.1	6.8
82.5°	1.4	1.4	1.4	2.0	2.7	3.4	4.8	4.8
85°	1.4	1.4	1.4	1.4	2.0	2.7	3.4	3.4
87.5°	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)