

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: P1320008

Luminaire Tested: LDSQA3D09R509840DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1320008  
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: LDSQA3D09R509840DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

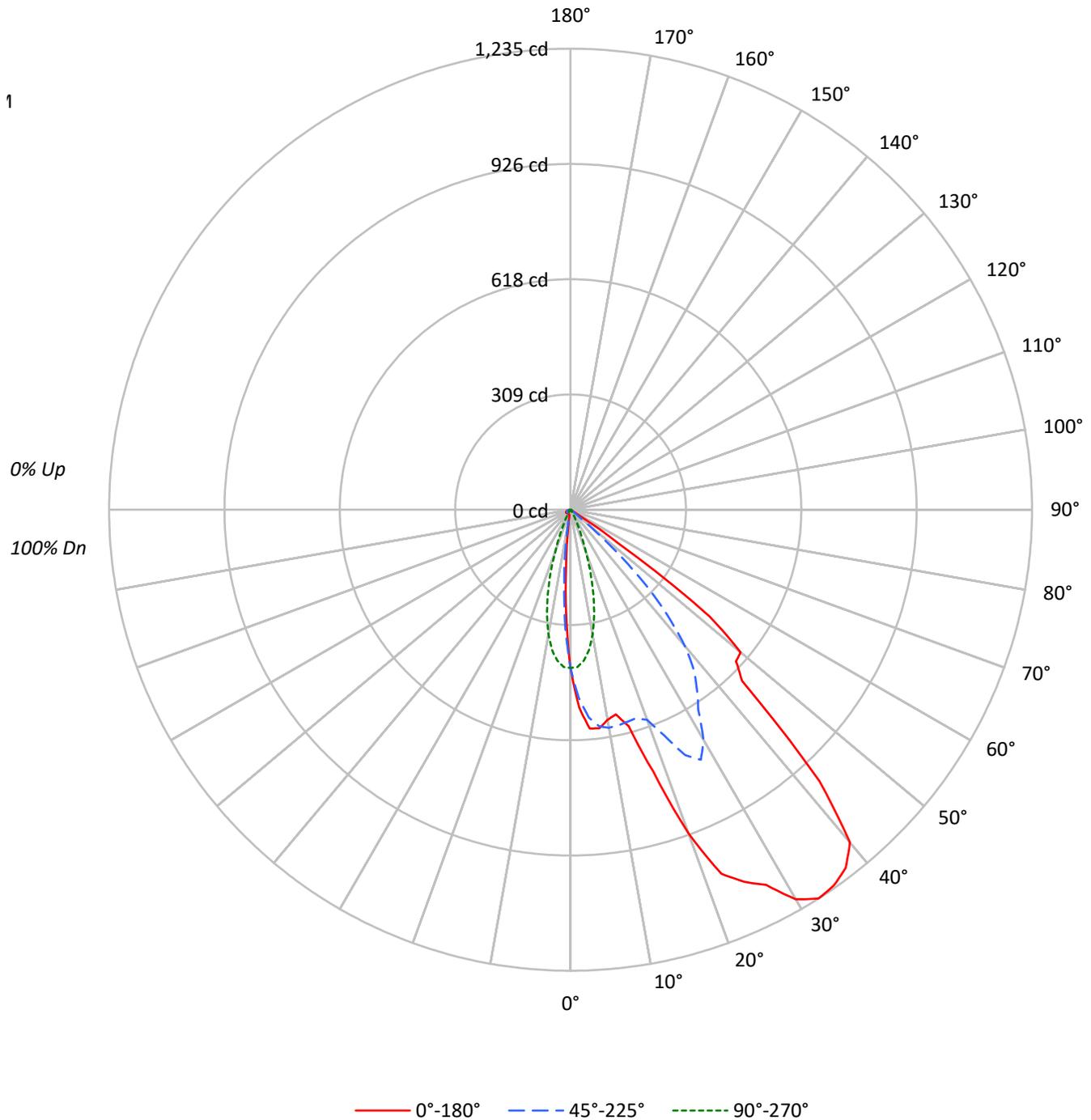
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 659.0 lumens  
Efficiency: N/A  
Efficacy: 59.9 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 (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	38	46	41	37	46	41	37	36

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

	0°	45°	90°	135°	180°
0°	72971	72971	72971	72971	72971
5°	101740	96519	70138	33712	21869
10°	99874	103738	59267	7100	3043
15°	107104	104821	41918	2478	2371
20°	169127	109782	22121	2126	2236
25°	208991	137864	8817	1976	2204
30°	239613	141393	3580	1969	2307
35°	258328	124108	1577	2081	2565
40°	261489	106857	1169	2338	2878
45°	158046	69268	1120	2533	3239
50°	159231	11977	1232	2947	3724
55°	47051	691	1381	3303	4174
60°	792	792	1412	3582	4581
65°	693	693	1426	3790	4972
70°	856	856	1460	4079	5539
75°	799	799	1530	4259	5789
80°	595	1190	1686	4066	6347
85°	1186	2371	2371	4545	5730

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 180526 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.3	5.2
10°-20°	85.1	12.9
20°-30°	159.4	24.2
30°-40°	190.5	28.9
40°-50°	136.5	20.7
50°-60°	42.1	6.4
60°-70°	5.5	0.8
70°-80°	4.0	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°	278.7	42.3
0°-40°	469.2	71.2
0°-60°	647.8	98.3
0°-90°	659.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	659.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	424	424	424	424	424	
5°	588	558	406	195	126	55
15°	601	588	235	14	13	192
25°	1100	726	46	10	12	507
35°	1229	590	8	10	12	762
45°	649	284	5	10	13	596
55°	157	2	5	11	14	202
65°	2	2	4	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°	423.7	423.7	423.7	423.7	423.7	423.7	423.7	423.7	423.7	423.7	423.7
2.5°	529.9	531.1	532.8	528.2	525.2	522.9	518.9	517.7	507.8	503.8	499.7
5°	588.5	587.3	588.5	586.8	585.6	582.1	578.6	572.8	566.5	558.3	549.0
7.5°	590.3	589.1	591.4	591.4	593.7	593.7	593.7	594.3	590.8	585.0	576.9
10°	571.1	571.1	573.4	572.3	576.3	578.1	582.1	589.1	592.6	593.2	590.8
12.5°	561.2	561.2	561.8	559.5	560.7	562.4	567.0	575.2	583.3	591.4	596.1
15°	600.7	601.9	593.7	582.1	573.4	564.1	561.2	566.5	575.2	587.9	598.4
17.5°	734.8	736.5	727.8	699.9	673.2	634.9	600.7	583.9	574.6	585.0	599.0
20°	922.8	916.4	901.3	871.7	832.9	773.7	720.3	666.3	614.6	599.0	603.6
22.5°	1055.7	1053.4	1041.2	1008.1	974.5	919.3	851.4	776.0	701.1	653.5	628.6
25°	1099.8	1098.1	1087.1	1067.3	1048.8	1007.0	946.0	870.0	791.6	725.5	662.8
27.5°	1132.9	1130.6	1113.2	1091.1	1072.0	1029.6	973.9	916.4	844.5	755.1	658.7
30°	1204.9	1198.5	1174.1	1134.7	1098.1	1039.5	977.9	906.6	809.1	711.0	616.9
32.5°	1235.1	1231.6	1210.7	1178.8	1138.7	1062.1	968.7	849.1	720.8	636.1	567.6
35°	1228.7	1223.5	1202.0	1165.4	1116.7	1043.0	918.2	753.9	649.5	590.3	513.1
37.5°	1209.5	1202.0	1176.4	1133.5	1074.3	977.9	814.9	676.7	609.4	542.7	438.8
40°	1163.1	1150.9	1121.3	1076.6	1017.4	890.9	720.8	630.3	567.6	475.3	355.8
42.5°	985.5	979.1	993.6	986.1	933.8	784.7	654.1	587.9	501.5	384.2	257.7
45°	648.9	659.9	686.0	730.7	741.2	675.0	599.5	518.3	412.7	284.4	148.6
47.5°	600.7	598.4	604.8	613.5	615.2	587.3	518.9	428.3	306.4	162.5	41.2
50°	594.3	590.8	585.6	575.2	553.1	499.1	421.4	312.2	177.0	44.7	2.9
52.5°	469.5	466.0	466.0	451.0	422.5	370.3	290.8	171.8	49.3	2.9	2.3
55°	156.7	167.2	165.4	164.8	177.6	163.7	125.4	44.1	4.1	2.3	2.3
57.5°	2.9	2.9	2.9	5.2	8.1	11.6	7.0	3.5	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°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.7	1.7	1.7
75°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.7
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°	423.7	423.7	423.7	423.7	423.7	423.7	423.7	423.7
2.5°	490.4	482.3	466.6	421.9	372.6	316.3	278.0	273.4
5°	534.5	522.3	496.8	405.7	293.1	195.0	145.1	126.5
7.5°	563.6	547.3	516.0	379.0	213.6	102.7	55.1	44.1
10°	581.0	565.9	525.8	338.9	135.8	40.6	18.6	17.4
12.5°	590.3	575.7	529.3	290.8	76.6	18.6	14.5	14.5
15°	596.6	581.0	524.1	235.1	38.3	13.9	13.3	13.3
17.5°	599.5	580.4	509.0	177.0	20.3	12.8	12.8	12.8
20°	601.3	574.0	481.1	120.7	13.9	11.6	12.2	12.2
22.5°	603.0	558.3	444.6	76.6	11.0	11.0	11.6	11.6
25°	599.5	531.1	392.9	46.4	9.9	10.4	11.0	11.6
27.5°	574.6	489.8	330.2	28.4	8.7	9.9	11.0	11.6
30°	531.6	429.5	257.7	18.0	8.1	9.9	11.0	11.6
32.5°	475.9	360.4	184.0	11.0	8.1	9.9	11.0	11.6
35°	401.0	275.7	119.6	7.5	8.1	9.9	11.6	12.2
37.5°	316.9	192.7	64.4	5.8	8.1	9.9	11.6	12.2
40°	228.1	115.5	23.2	5.2	7.5	10.4	12.2	12.8
42.5°	133.5	42.9	4.1	4.6	7.5	10.4	12.2	12.8
45°	38.3	4.6	2.3	4.6	7.5	10.4	12.8	13.3
47.5°	2.9	1.7	2.3	4.6	7.5	10.4	12.8	13.9
50°	1.7	1.7	1.7	4.6	7.5	11.0	13.3	13.9
52.5°	2.3	2.3	2.3	4.6	7.5	11.0	13.3	13.9
55°	2.3	2.3	2.3	4.6	7.5	11.0	13.3	13.9
57.5°	2.3	2.3	2.3	4.6	7.5	10.4	13.3	13.9
60°	2.3	2.3	2.3	4.1	7.0	10.4	12.8	13.3
62.5°	2.3	2.3	2.3	4.1	7.0	9.9	12.8	12.8
65°	2.3	2.3	2.3	3.5	6.4	9.3	11.6	12.2
67.5°	2.3	2.3	2.3	3.5	5.8	8.7	11.0	11.6
70°	1.7	2.3	2.3	2.9	5.2	8.1	10.4	11.0
72.5°	1.7	1.7	2.3	2.9	4.6	7.0	9.3	9.9
75°	1.7	1.7	1.7	2.3	4.1	6.4	8.1	8.7
77.5°	1.7	1.7	1.7	2.3	3.5	5.2	7.5	7.5
80°	1.2	1.7	1.7	1.7	2.9	4.1	5.8	6.4
82.5°	1.2	1.2	1.2	1.7	2.3	3.5	4.6	4.6
85°	1.2	1.2	1.2	1.2	1.7	2.3	2.9	2.9
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)