

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: P1327277

Luminaire Tested: LDSQA3D09R70W2N902765DE010 3LSQCA30R 1MW\_4000K

Issue Date: 1/29/2026

**Test Information**

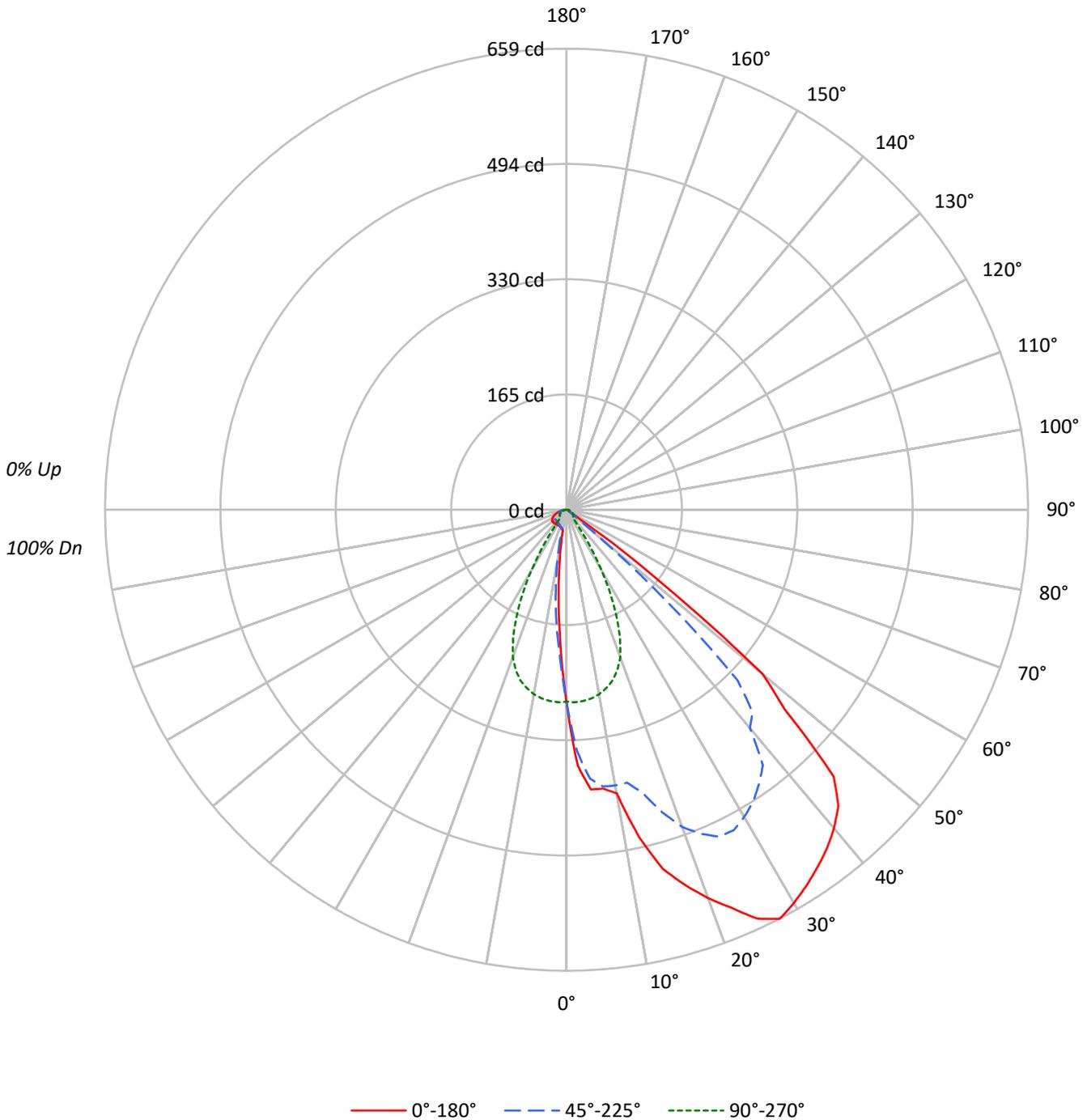
Test Method: LM-79-2019  
Report Number: P1327277  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-70)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R70W2N902765DE010 3LSQCA30R 1MW\_4000K  
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 4000K CCT AND, 90CRI ,  
3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 521.0 lumens  
Efficiency: N/A  
Efficacy: 57.9 lumens/watt  
Spacing Criteria (0/90/45): 1.69 / 0.89 / 1.39  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	62	59	57
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	35

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

	0°	45°	90°	135°	180°
0°	47241	47241	47241	47241	47241
5°	69394	66732	47421	28318	22181
10°	71963	69987	46833	13536	5474
15°	94765	74636	45109	4850	4743
20°	108243	88412	41072	4655	4765
25°	122567	97959	32248	4485	4713
30°	129084	100865	19986	4474	5051
35°	131256	100686	6581	4604	5340
40°	133566	91569	3192	4924	5845
45°	131449	84077	3312	5188	6333
50°	97741	15513	3322	5707	6966
55°	7807	2132	3543	6035	7446
60°	1619	2239	3444	6097	7750
65°	1671	2160	3382	6031	7947
70°	1511	2065	3273	5640	7755
75°	1198	1996	2728	5523	7453
80°	1190	1785	2975	5256	7042
85°	1186	2371	3557	4742	5928

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 45°  
 Luminance: 133032 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.0	4.8
10°-20°	70.2	13.5
20°-30°	117.9	22.6
30°-40°	141.7	27.2
40°-50°	112.4	21.6
50°-60°	35.9	6.9
60°-70°	10.0	1.9
70°-80°	6.0	1.1
80°-90°	1.9	0.4
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°	213.0	40.9
0°-40°	354.8	68.1
0°-60°	503.1	96.6
0°-90°	521.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	521.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	274	274	274	274	274	
5°	401	386	274	164	128	38
15°	532	419	253	27	27	149
25°	645	516	170	24	25	295
35°	624	479	31	22	25	391
45°	540	345	14	21	26	388
55°	26	7	12	20	25	81
65°	4	5	8	15	20	4
75°	2	3	4	8	11	2
85°	1	1	2	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°	274.3	274.3	274.3	274.3	274.3	274.3	274.3	274.3	274.3	274.3	274.3
2.5°	365.9	368.3	368.3	365.3	366.5	361.8	358.3	352.9	351.7	345.2	337.0
5°	401.4	400.2	400.2	397.9	399.0	397.3	395.5	394.3	390.8	386.0	381.3
7.5°	402.0	403.2	403.8	403.2	405.5	403.8	403.8	403.8	401.4	399.0	394.3
10°	411.5	409.7	407.9	403.8	401.4	399.6	399.6	400.2	401.4	400.2	397.3
12.5°	479.4	472.9	470.0	459.9	452.2	439.2	424.5	413.2	403.2	399.6	397.3
15°	531.5	530.3	524.4	514.9	505.5	490.1	472.9	455.8	437.5	418.6	405.0
17.5°	562.2	559.8	553.9	543.9	532.6	518.5	504.9	491.9	474.1	452.8	431.0
20°	590.6	585.3	577.6	565.8	554.5	540.9	526.1	513.7	499.0	482.4	457.0
22.5°	616.0	611.3	598.9	582.9	571.7	558.7	545.7	533.8	520.2	501.3	478.3
25°	645.0	634.3	614.2	593.5	579.9	569.3	559.8	550.4	536.2	515.5	488.3
27.5°	659.2	644.4	622.5	601.8	588.8	577.6	567.5	558.1	542.1	516.7	485.4
30°	649.1	640.8	625.5	609.5	598.9	588.2	576.4	562.2	536.8	507.2	478.3
32.5°	637.3	633.1	626.1	616.6	610.1	599.5	582.9	559.8	524.4	495.4	464.1
35°	624.3	622.5	620.1	616.0	611.9	601.8	581.1	547.4	512.0	478.9	448.7
37.5°	610.7	608.9	610.7	610.1	606.5	593.5	562.2	530.9	494.2	460.5	402.0
40°	594.1	592.9	595.9	598.9	594.7	577.6	543.9	506.0	473.5	407.3	387.2
42.5°	574.6	574.0	579.4	581.7	575.8	550.4	510.8	483.0	414.4	393.1	345.8
45°	539.7	540.9	543.3	546.2	542.7	514.9	478.9	428.0	397.9	345.2	196.9
47.5°	422.7	423.9	435.7	460.5	477.7	468.2	437.5	399.6	355.9	197.5	62.1
50°	364.8	363.6	364.2	370.1	383.7	396.7	387.2	366.5	212.2	57.9	7.7
52.5°	160.2	177.9	196.9	250.1	284.4	320.4	327.5	229.4	69.2	7.7	7.7
55°	26.0	27.2	34.3	50.2	90.4	136.6	165.5	76.9	7.1	7.1	7.1
57.5°	5.3	5.3	5.3	5.9	8.9	18.9	21.9	6.5	6.5	6.5	7.1
60°	4.7	4.7	4.7	4.7	5.3	5.3	5.3	5.9	5.9	6.5	6.5
62.5°	4.7	4.7	4.7	4.7	4.7	4.7	5.3	5.3	5.9	5.9	6.5
65°	4.1	4.1	4.1	4.1	4.7	4.7	4.7	4.7	5.3	5.3	5.9
67.5°	3.5	3.5	3.5	3.5	4.1	4.1	4.1	4.7	4.7	4.7	5.3
70°	3.0	3.0	3.0	3.0	3.5	3.5	3.5	3.5	4.1	4.1	4.1
72.5°	2.4	2.4	2.4	2.4	3.0	3.0	3.0	3.0	3.5	3.5	3.5
75°	1.8	1.8	2.4	2.4	2.4	2.4	2.4	2.4	3.0	3.0	3.0
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.4	2.4	2.4	2.4
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.8	1.8
82.5°	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.2
87.5°	0.0	0.0	0.0	0.0	0.6	0.6	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°	274.3	274.3	274.3	274.3	274.3	274.3	274.3	274.3
2.5°	331.6	323.4	312.1	275.5	241.8	211.0	195.7	193.9
5°	373.6	365.9	347.0	274.3	209.9	163.8	136.0	128.3
7.5°	389.6	383.1	366.5	271.9	179.7	117.6	86.3	74.5
10°	393.7	389.6	375.4	267.8	148.4	77.4	40.8	31.3
12.5°	395.5	392.5	378.9	261.3	117.1	40.2	27.8	27.8
15°	398.5	395.5	382.5	253.0	86.3	27.2	26.6	26.6
17.5°	411.5	402.0	387.2	240.6	56.8	26.0	26.0	26.0
20°	432.7	412.0	389.6	224.1	35.5	25.4	25.4	26.0
22.5°	450.5	422.7	389.0	199.2	26.0	24.2	24.8	25.4
25°	458.2	427.4	383.7	169.7	22.5	23.6	24.8	24.8
27.5°	457.0	429.2	378.9	136.0	21.3	23.1	24.2	25.4
30°	450.5	424.5	368.3	100.5	20.1	22.5	24.2	25.4
32.5°	439.2	406.1	347.0	65.0	19.5	22.5	24.2	25.4
35°	402.6	376.6	316.3	31.3	18.9	21.9	24.8	25.4
37.5°	381.3	345.2	241.2	15.4	18.3	21.9	24.8	25.4
40°	347.0	257.8	108.8	14.2	18.3	21.9	24.8	26.0
42.5°	218.1	105.8	17.7	13.6	17.7	21.9	24.8	26.0
45°	79.8	14.2	9.5	13.6	17.7	21.3	24.8	26.0
47.5°	8.3	8.3	8.9	13.0	17.1	21.3	24.8	26.0
50°	7.7	8.3	8.9	12.4	16.6	21.3	24.2	26.0
52.5°	7.7	8.3	8.9	12.4	16.0	20.7	24.2	26.0
55°	7.7	8.3	8.3	11.8	15.4	20.1	23.6	24.8
57.5°	7.1	7.7	8.3	11.2	14.8	18.9	23.1	24.2
60°	7.1	7.7	8.3	10.0	14.2	17.7	21.9	22.5
62.5°	6.5	7.1	7.7	9.5	13.0	16.6	20.1	21.3
65°	6.5	6.5	7.1	8.3	11.8	14.8	18.3	19.5
67.5°	5.3	5.9	5.9	7.1	10.0	13.0	16.6	17.7
70°	4.7	4.7	5.3	6.5	8.9	11.2	14.2	15.4
72.5°	4.1	4.1	4.1	5.3	7.7	10.0	12.4	13.6
75°	3.5	3.5	3.5	4.1	6.5	8.3	10.6	11.2
77.5°	3.0	3.0	3.0	3.5	5.3	7.1	8.3	9.5
80°	2.4	2.4	2.4	3.0	4.1	5.3	6.5	7.1
82.5°	1.8	1.8	1.8	2.4	3.0	3.5	4.7	4.7
85°	1.2	1.2	1.2	1.8	1.8	2.4	3.0	3.0
87.5°	0.6	0.6	0.6	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)