

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: P1327192

Luminaire Tested: LDSQA3D09R70W2N902750DE010 3LSQCA30R 1MMS_2700K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1327192
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-57)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R70W2N902750DE010 3LSQCA30R 1MMS_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 2700K CCT AND, 90CRI ,
3LSQCA30R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

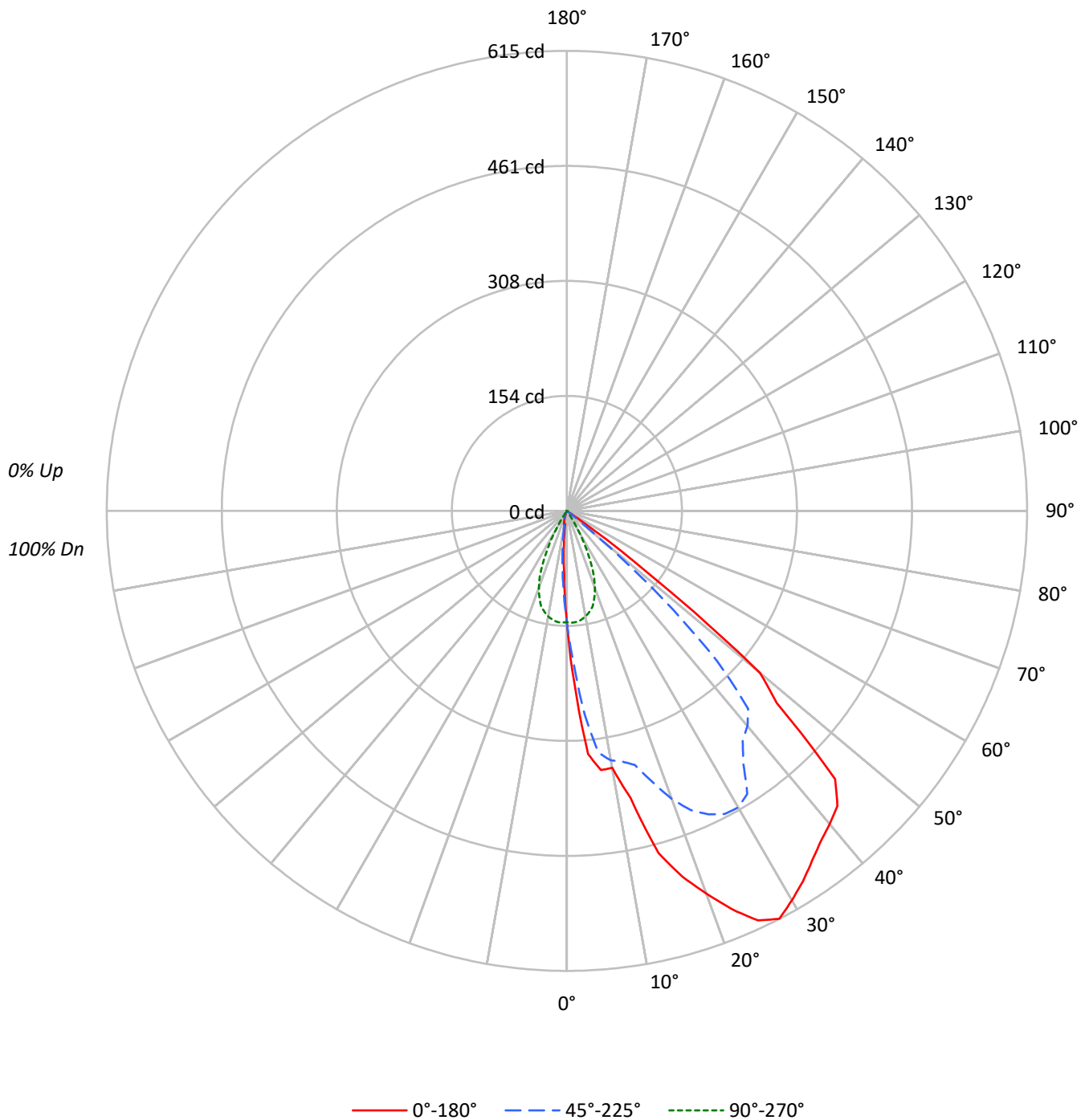
Lumens per Lamp: N/A
Luminaire Lumens: 400.0 lumens
Efficiency: N/A
Efficacy: 44.4 lumens/watt
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	99	94	90	103	98	93	89	94	90	87	91	88	85	88	86	84	82		
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73		
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66		
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59		
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53		
7	74	63	56	50	73	62	55	50	61	55	50	59	54	50	58	53	49	48		
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43		
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39		
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	25575	25575	25575	25575	25575
5°	56411	47335	25759	11704	7710
10°	60998	59232	25078	3253	3358
15°	84442	62707	23642	3316	2407
20°	99720	75106	20069	1961	733
25°	114776	85056	14157	323	0
30°	119558	91041	6503	0	0
35°	120092	86285	357	0	0
40°	122842	84398	0	0	0
45°	123460	69147	0	0	0
50°	90132	14361	0	0	0
55°	5074	0	0	0	0
60°	0	207	207	0	0
65°	0	0	245	0	0
70°	0	302	302	0	0
75°	0	399	399	0	0
80°	0	595	595	595	0
85°	0	1186	1186	1186	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 125799 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.2	4.1
10°-20°	54.2	13.6
20°-30°	97.5	24.4
30°-40°	118.5	29.6
40°-50°	91.5	22.9
50°-60°	21.3	5.3
60°-70°	0.1	0.0
70°-80°	0.3	0.1
80°-90°	0.3	0.1
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°	168.0	42.0
0°-40°	286.5	71.6
0°-60°	399.3	99.8
0°-90°	400.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	400.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	148	148	148	148	148	
5°	326	274	149	68	45	31
15°	474	352	133	19	14	132
25°	604	448	74	2	0	275
35°	571	410	2	0	0	359
45°	507	284	0	0	0	358
55°	17	0	0	0	0	70
65°	0	0	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	1	1	0	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°	148.5	148.5	148.5	148.5	148.5	148.5	148.5	148.5	148.5	148.5	148.5
2.5°	231.4	231.4	232.6	232.0	226.9	224.7	217.3	213.4	212.2	203.2	199.8
5°	326.3	326.8	324.0	323.4	317.8	313.8	307.6	298.0	288.4	273.8	260.8
7.5°	349.4	348.8	348.3	348.3	347.1	344.9	342.1	339.2	335.3	326.3	316.1
10°	348.8	348.8	348.3	348.3	347.7	348.3	347.7	346.0	344.3	338.7	333.0
12.5°	392.9	389.5	385.0	378.2	366.9	358.4	348.8	346.0	344.9	343.2	339.8
15°	473.6	470.8	461.2	449.3	438.0	418.8	403.6	382.7	366.3	351.7	344.3
17.5°	512.5	514.2	503.5	496.2	485.4	470.2	452.1	430.7	407.5	379.9	357.9
20°	544.1	545.8	536.8	529.5	517.0	501.2	485.4	462.3	440.3	409.8	381.0
22.5°	576.3	577.4	569.0	558.3	544.1	527.8	507.5	483.7	460.0	432.9	402.5
25°	604.0	602.8	588.7	573.5	559.9	542.4	522.7	499.6	477.0	447.6	418.8
27.5°	614.7	614.1	598.3	583.7	567.9	544.1	526.6	506.3	482.6	456.7	427.3
30°	601.2	610.2	600.0	589.3	570.1	546.4	529.5	505.2	483.2	457.8	424.5
32.5°	587.0	598.3	594.9	589.9	567.3	548.7	526.6	504.1	478.1	448.7	397.9
35°	571.2	583.1	583.7	578.0	557.7	539.1	518.7	495.0	465.7	410.4	373.1
37.5°	557.1	568.4	571.8	559.9	544.1	519.3	500.7	475.8	422.8	385.5	366.3
40°	546.4	554.9	559.9	541.3	525.5	501.2	479.8	436.3	388.4	375.4	348.3
42.5°	535.1	543.0	545.3	525.0	500.7	477.5	446.5	391.7	377.6	358.4	285.6
45°	506.9	516.5	510.8	491.1	473.0	448.7	402.5	378.8	363.5	283.9	175.5
47.5°	380.4	391.2	406.4	412.1	418.3	400.8	375.4	366.9	298.6	172.2	54.8
50°	336.4	334.7	334.7	337.5	342.6	348.3	355.6	309.3	179.5	53.6	0.0
52.5°	137.2	143.9	177.2	207.2	241.6	276.0	286.7	189.7	70.0	1.1	0.0
55°	16.9	16.9	23.7	40.6	67.2	108.4	121.9	61.0	5.1	0.0	0.0
57.5°	0.0	0.0	0.0	0.6	4.5	12.4	8.5	2.3	0.6	0.6	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	148.5	148.5	148.5	148.5	148.5	148.5	148.5	148.5
2.5°	194.2	187.4	177.8	149.6	125.3	103.9	91.4	85.2
5°	248.4	232.0	210.0	149.0	101.6	67.7	50.8	44.6
7.5°	300.3	281.7	244.4	146.8	77.9	39.5	22.0	17.5
10°	322.9	309.3	276.0	143.4	56.4	18.6	18.6	19.2
12.5°	331.9	321.7	294.7	138.3	37.3	18.1	19.2	18.1
15°	338.1	328.5	303.7	132.6	21.4	18.6	15.2	13.5
17.5°	341.5	330.2	306.5	121.9	14.1	15.8	9.6	7.9
20°	352.2	334.2	308.8	109.5	13.5	10.7	5.1	4.0
22.5°	370.3	342.1	309.3	94.3	10.7	6.2	1.7	0.0
25°	386.7	352.8	311.0	74.5	3.4	1.7	0.0	0.0
27.5°	394.6	356.2	310.5	52.5	0.0	0.0	0.0	0.0
30°	385.0	347.7	305.4	32.7	0.0	0.0	0.0	0.0
32.5°	362.4	341.5	289.6	14.1	0.0	0.0	0.0	0.0
35°	355.0	328.0	253.4	1.7	0.0	0.0	0.0	0.0
37.5°	338.7	289.0	186.3	0.0	0.0	0.0	0.0	0.0
40°	291.3	208.9	88.6	0.0	0.0	0.0	0.0	0.0
42.5°	192.5	89.2	5.1	0.0	0.0	0.0	0.0	0.0
45°	67.7	5.6	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.6	0.6	0.0	0.0	0.0	0.0
67.5°	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0
70°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
72.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
75°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
77.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0
87.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)