

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: P1327193

Luminaire Tested: LDSQA3D09R70W2N902750DE010 3LSQCA30R 1MMS_3000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1327193
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_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 3000K CCT AND, 90CRI ,
3LSQCA30R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

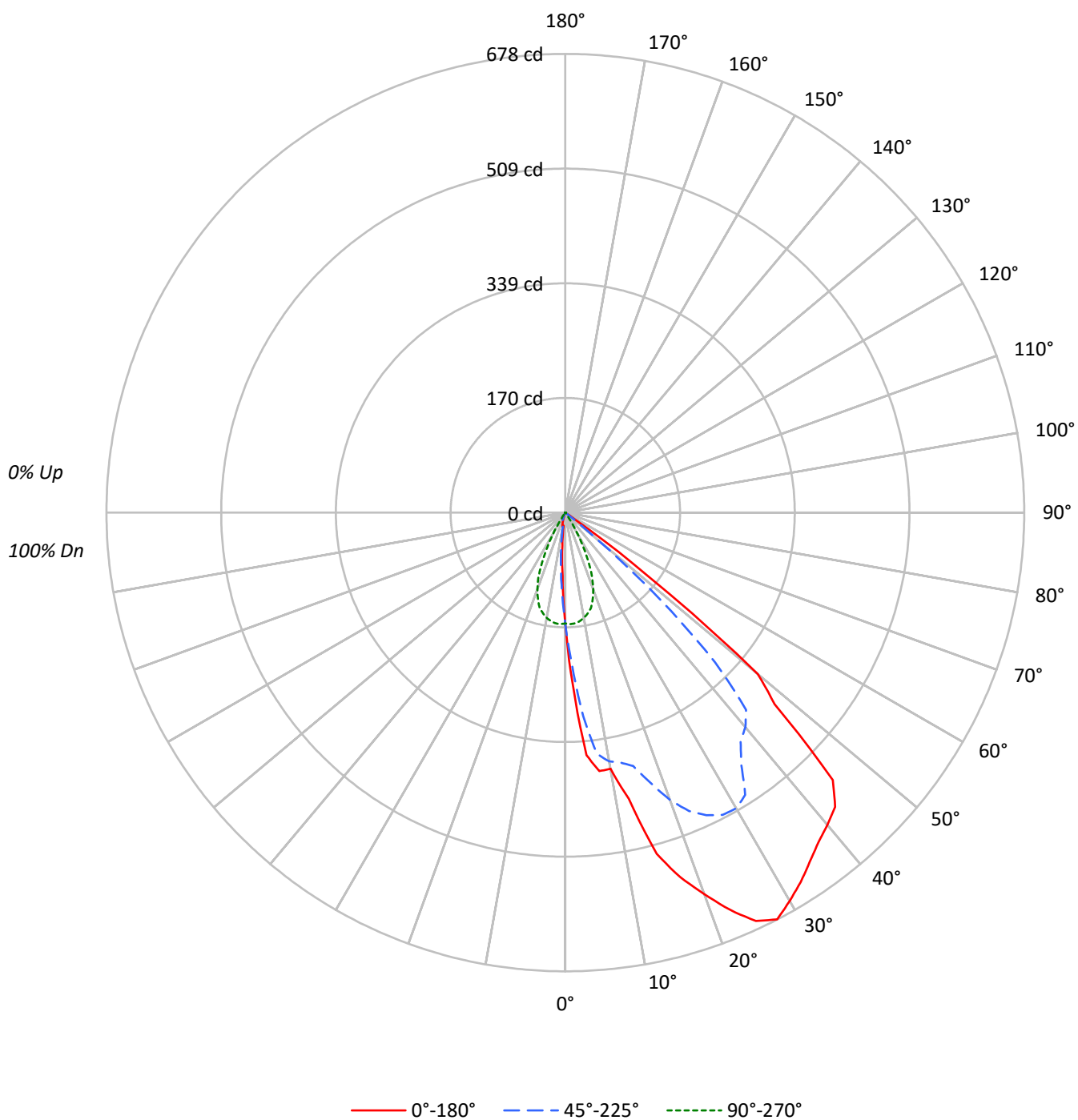
Lumens per Lamp: N/A
Luminaire Lumens: 441.0 lumens
Efficiency: N/A
Efficacy: 49.0 lumens/watt
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	91	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°	28193	28193	28193	28193	28193
5°	62185	52175	28404	12914	8506
10°	67259	65300	27648	3585	3707
15°	93089	69126	26067	3655	2657
20°	109947	82804	22121	2163	806
25°	126539	93778	15601	361	0
30°	131808	100367	7179	0	0
35°	132412	95115	399	0	0
40°	135432	93031	0	0	0
45°	136101	76234	0	0	0
50°	99376	15835	0	0	0
55°	5615	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: 138683 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.9	4.1
10°-20°	59.8	13.6
20°-30°	107.5	24.4
30°-40°	130.7	29.6
40°-50°	100.9	22.9
50°-60°	23.5	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°	185.2	42.0
0°-40°	315.8	71.6
0°-60°	440.2	99.8
0°-90°	441.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	441.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	164	164	164	164	164	
5°	360	302	164	75	49	34
15°	522	388	146	20	15	146
25°	666	494	82	2	0	303
35°	630	452	2	0	0	396
45°	559	313	0	0	0	395
55°	19	0	0	0	0	77
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°	163.7	163.7	163.7	163.7	163.7	163.7	163.7	163.7	163.7	163.7	163.7
2.5°	255.2	255.2	256.4	255.8	250.2	247.7	239.6	235.2	234.0	224.0	220.3
5°	359.7	360.3	357.2	356.6	350.4	346.0	339.2	328.6	318.0	301.8	287.5
7.5°	385.2	384.6	384.0	384.0	382.7	380.2	377.1	374.0	369.7	359.7	348.5
10°	384.6	384.6	384.0	384.0	383.3	384.0	383.3	381.5	379.6	373.4	367.2
12.5°	433.1	429.4	424.4	417.0	404.5	395.2	384.6	381.5	380.2	378.4	374.6
15°	522.1	519.0	508.4	495.4	482.9	461.8	445.0	421.9	403.9	387.7	379.6
17.5°	565.1	566.9	555.1	547.0	535.2	518.4	498.5	474.8	449.3	418.8	394.6
20°	599.9	601.8	591.8	583.7	570.0	552.6	535.2	509.7	485.4	451.8	420.1
22.5°	635.4	636.6	627.3	615.5	599.9	581.9	559.5	533.3	507.2	477.3	443.7
25°	665.9	664.6	649.1	632.3	617.3	598.1	576.3	550.8	525.9	493.5	461.8
27.5°	677.7	677.1	659.7	643.5	626.1	599.9	580.6	558.2	532.1	503.5	471.1
30°	662.8	672.7	661.5	649.7	628.5	602.4	583.7	557.0	532.7	504.7	468.0
32.5°	647.2	659.7	655.9	650.3	625.4	604.9	580.6	555.7	527.1	494.7	438.7
35°	629.8	642.9	643.5	637.3	614.9	594.3	571.9	545.8	513.4	452.4	411.4
37.5°	614.2	626.7	630.4	617.3	599.9	572.5	552.0	524.6	466.1	425.0	403.9
40°	602.4	611.7	617.3	596.8	579.4	552.6	529.0	481.1	428.2	413.8	384.0
42.5°	590.0	598.7	601.2	578.8	552.0	526.5	492.3	431.9	416.3	395.2	314.9
45°	558.8	569.4	563.2	541.4	521.5	494.7	443.7	417.6	400.8	313.0	193.5
47.5°	419.4	431.3	448.1	454.3	461.1	441.8	413.8	404.5	329.2	189.8	60.4
50°	370.9	369.0	369.0	372.1	377.7	384.0	392.1	341.0	197.9	59.1	0.0
52.5°	151.2	158.7	195.4	228.4	266.4	304.3	316.1	209.1	77.2	1.2	0.0
55°	18.7	18.7	26.1	44.8	74.1	119.5	134.4	67.2	5.6	0.0	0.0
57.5°	0.0	0.0	0.0	0.6	5.0	13.7	9.3	2.5	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°	163.7	163.7	163.7	163.7	163.7	163.7	163.7	163.7
2.5°	214.1	206.6	196.0	164.9	138.2	114.5	100.8	94.0
5°	273.8	255.8	231.5	164.3	112.0	74.7	56.0	49.2
7.5°	331.1	310.5	269.5	161.8	85.9	43.6	24.3	19.3
10°	356.0	341.0	304.3	158.1	62.2	20.5	20.5	21.2
12.5°	365.9	354.7	324.9	152.5	41.1	19.9	21.2	19.9
15°	372.8	362.2	334.8	146.2	23.6	20.5	16.8	14.9
17.5°	376.5	364.1	337.9	134.4	15.6	17.4	10.6	8.7
20°	388.3	368.4	340.4	120.7	14.9	11.8	5.6	4.4
22.5°	408.2	377.1	341.0	103.9	11.8	6.8	1.9	0.0
25°	426.3	389.0	342.9	82.1	3.7	1.9	0.0	0.0
27.5°	435.0	392.7	342.3	57.9	0.0	0.0	0.0	0.0
30°	424.4	383.3	336.7	36.1	0.0	0.0	0.0	0.0
32.5°	399.5	376.5	319.3	15.6	0.0	0.0	0.0	0.0
35°	391.4	361.6	279.4	1.9	0.0	0.0	0.0	0.0
37.5°	373.4	318.6	205.4	0.0	0.0	0.0	0.0	0.0
40°	321.1	230.3	97.7	0.0	0.0	0.0	0.0	0.0
42.5°	212.2	98.3	5.6	0.0	0.0	0.0	0.0	0.0
45°	74.7	6.2	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.2	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)