

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: P1325248

Luminaire Tested: LDSQA3D05R50W2N902750DE010 3LSQCA30R 1MMS_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D05R50W2N902750DE010 3LSQCA30R 1MMS_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R50 optic, 4000K CCT AND, 90CRI ,
3LSQCA30R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

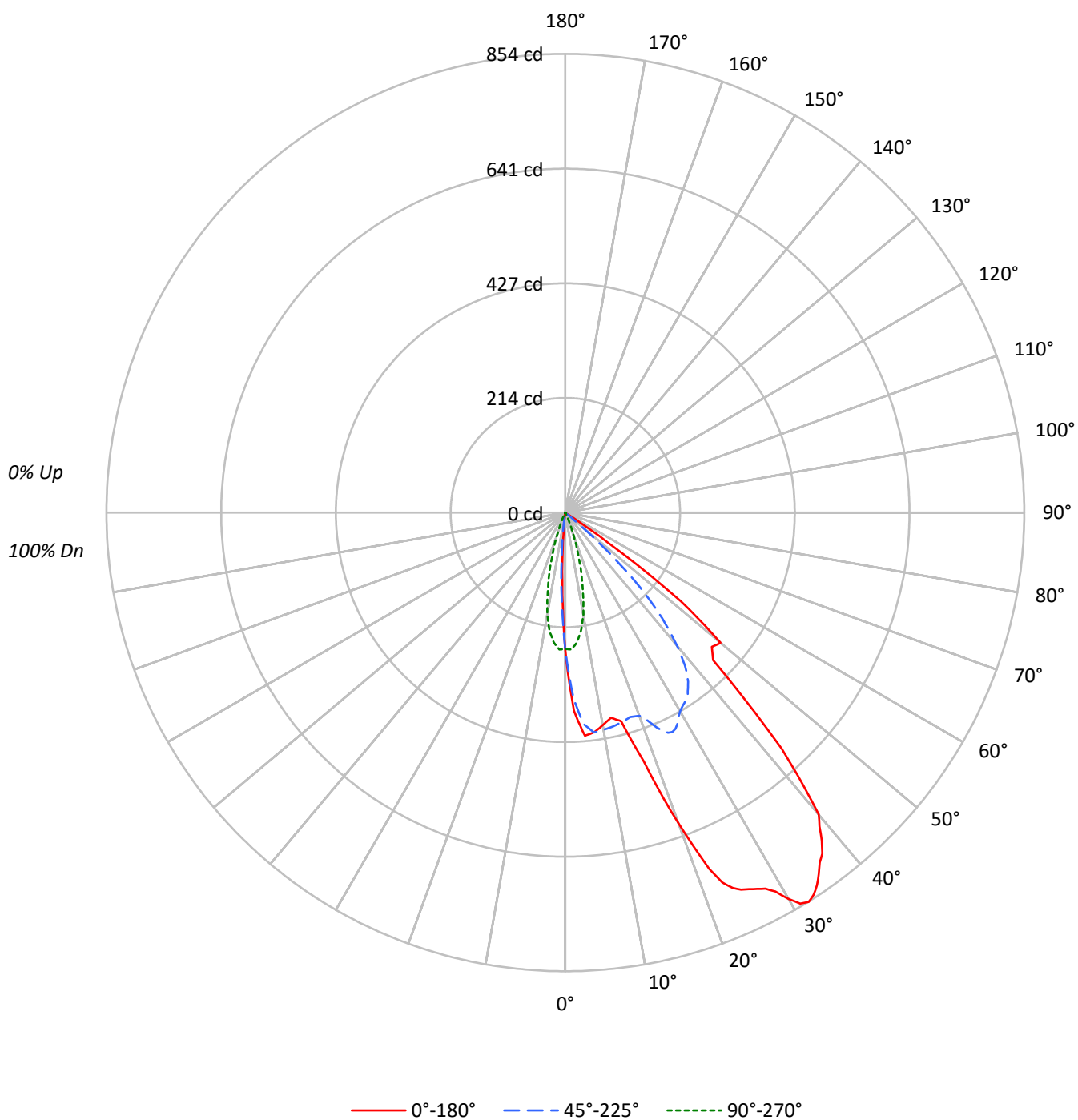
Lumens per Lamp: N/A
Luminaire Lumens: 409.0 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 5.9
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
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91	
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82	
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74	
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66	
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59	
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54	
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48	
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44	
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40	
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	43727	43727	43727	43727	43727
5°	72057	68392	42027	12482	6241
10°	70232	71771	33682	630	839
15°	71604	72032	20166	642	214
20°	112861	73750	8302	0	0
25°	147138	85911	1976	0	0
30°	165138	84955	80	0	0
35°	172821	83678	0	0	0
40°	164861	72685	0	0	0
45°	94672	47981	0	0	0
50°	101037	5493	0	0	0
55°	28795	0	0	0	0
60°	0	0	138	0	0
65°	0	163	163	0	0
70°	0	201	201	0	0
75°	0	266	266	0	0
80°	0	397	793	397	0
85°	0	790	1581	790	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 104560 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.3	5.2
10°-20°	53.7	13.1
20°-30°	103.2	25.2
30°-40°	120.1	29.4
40°-50°	86.0	21.0
50°-60°	23.9	5.9
60°-70°	0.2	0.0
70°-80°	0.2	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°	178.3	43.6
0°-40°	298.4	73.0
0°-60°	408.3	99.8
0°-90°	409.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	409.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	254	254	254	254	254	
5°	417	396	243	72	36	38
15°	402	404	113	4	1	130
25°	774	452	10	0	0	352
35°	822	398	0	0	0	509
45°	389	197	0	0	0	366
55°	96	0	0	0	0	121
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	253.9	253.9	253.9	253.9	253.9	253.9	253.9	253.9	253.9	253.9	253.9
2.5°	369.1	371.1	371.5	366.7	367.5	360.7	361.1	356.2	344.6	304.1	255.1
5°	416.8	415.6	416.8	415.2	416.8	412.8	410.4	408.4	395.6	338.2	243.1
7.5°	412.4	410.8	413.2	414.0	416.8	415.6	416.0	417.2	412.8	356.6	222.6
10°	401.6	401.2	402.4	402.4	405.6	406.0	407.6	410.0	410.4	363.1	192.6
12.5°	391.1	389.9	389.9	389.5	391.1	390.7	394.8	400.4	408.0	359.0	151.2
15°	401.6	400.4	398.8	394.4	391.1	387.5	387.9	391.5	404.0	348.6	113.1
17.5°	485.8	479.4	471.4	457.3	442.5	416.8	401.6	391.9	399.2	332.6	75.4
20°	615.8	613.0	600.2	577.3	553.2	515.5	468.6	430.9	402.4	312.5	45.3
21°	665.1	663.5	649.9	628.6	601.4	555.6	507.5	462.1	408.8	304.1	35.7
22°	715.7	709.7	698.8	675.2	646.7	601.0	547.2	497.0	421.6	293.3	27.3
23°	748.2	744.6	732.9	714.1	686.8	642.3	587.3	532.8	434.1	281.2	20.5
24°	765.0	763.8	754.6	741.4	718.1	672.8	620.6	564.4	444.5	267.2	14.8
25°	774.3	770.2	764.6	755.0	737.4	698.0	651.5	592.1	452.1	253.1	10.4
26°	779.9	777.5	768.6	760.2	743.4	711.3	671.6	609.0	454.1	235.9	7.2
27°	786.3	780.7	772.3	762.2	743.4	715.3	679.2	616.2	451.7	218.2	4.8
28°	793.1	789.1	777.5	764.6	742.2	715.3	676.4	606.6	444.5	201.4	2.8
29°	806.4	801.1	786.7	767.8	742.6	714.5	665.5	586.5	434.9	182.5	1.6
30°	830.4	819.6	801.9	775.5	745.4	712.9	647.5	556.4	427.2	161.3	0.4
31°	849.3	843.3	822.8	789.5	753.4	708.5	626.2	526.7	422.0	142.8	0.0
32°	854.5	850.1	835.2	803.9	767.0	704.9	602.2	497.9	418.0	122.4	0.0
33°	848.5	845.7	830.0	801.5	770.6	700.0	574.5	469.4	413.6	103.9	0.0
34°	837.2	833.6	820.0	791.1	761.4	679.2	548.0	447.7	407.2	86.7	0.0
35°	822.0	819.2	805.1	776.7	744.6	646.7	521.5	433.3	398.0	69.4	0.0
36°	805.5	804.7	786.7	758.6	722.9	615.4	489.4	422.4	388.7	55.0	0.0
37°	794.7	790.7	771.0	743.4	697.2	578.9	463.8	418.8	375.9	42.5	0.0
38°	775.1	775.9	753.4	728.1	671.2	547.2	442.9	416.0	361.5	30.9	0.0
39°	751.8	752.2	728.9	707.3	640.3	513.9	425.6	413.2	343.4	19.7	0.0
40°	733.3	732.9	706.5	683.2	607.0	482.6	416.4	409.2	323.3	11.2	0.0
42.5°	596.1	598.5	601.8	611.4	528.7	427.6	407.6	386.7	266.4	0.0	0.0
45°	388.7	398.0	400.4	429.3	428.9	405.2	386.7	346.6	197.0	0.0	0.0
47.5°	369.9	372.7	377.9	389.1	395.2	383.5	345.8	289.6	107.5	0.0	0.0
50°	377.1	376.7	377.9	377.9	367.1	337.0	283.6	213.8	20.5	0.0	0.0
52.5°	270.8	280.8	291.7	296.5	282.4	250.7	207.0	125.6	0.0	0.0	0.0
55°	95.9	92.7	90.3	98.7	96.7	108.7	89.9	29.3	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.4	1.6	3.6	4.8	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.8
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):

	112.5°	135°	157.5°	180°
0°	253.9	253.9	253.9	253.9
2.5°	203.4	156.1	126.4	128.4
5°	142.8	72.2	44.5	36.1
7.5°	85.4	22.1	4.4	3.6
10°	40.1	3.6	4.0	4.8
12.5°	12.0	3.2	4.4	4.0
15°	3.2	3.6	2.0	1.2
17.5°	1.2	1.6	0.0	0.0
20°	0.8	0.0	0.0	0.0
21°	0.8	0.0	0.0	0.0
22°	0.4	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	0.4	0.0	0.0	0.0
67.5°	0.4	0.0	0.0	0.0
70°	0.4	0.0	0.0	0.0
72.5°	0.4	0.0	0.0	0.0
75°	0.4	0.0	0.0	0.0
77.5°	0.4	0.0	0.0	0.0
80°	0.4	0.4	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	0.4	0.4	0.0	0.0
85°	0.4	0.4	0.0	0.0
87.5°	0.4	0.4	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)