

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: IRiS

Report Number: P1305640

Luminaire Tested: P3SQAS05R509024DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1305640
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: IRiS
Catalog Number: P3SQAS05R509024DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 2400K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

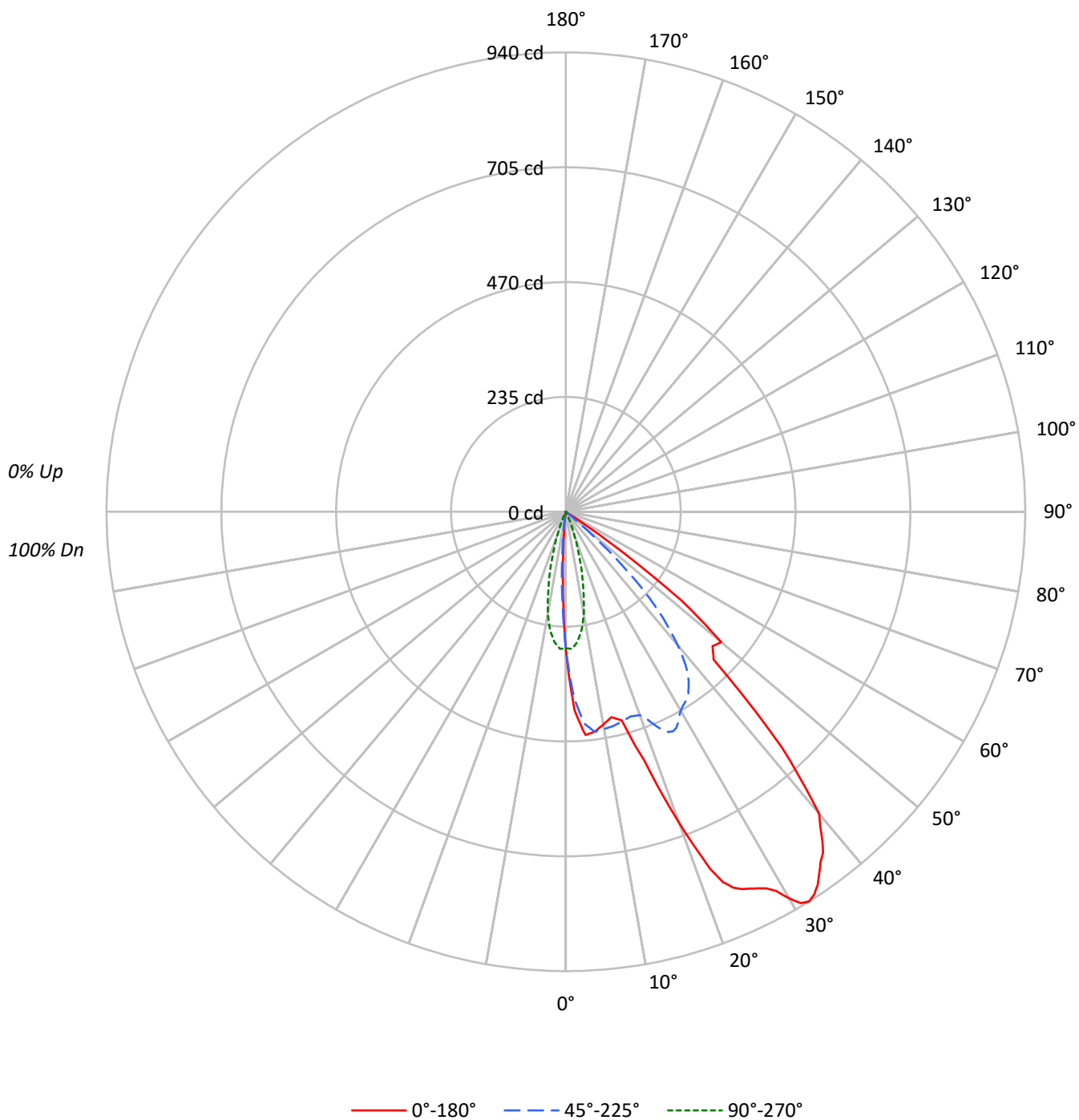
Lumens per Lamp: N/A
Luminaire Lumens: 449.9 lumens
Efficiency: N/A
Efficacy: 62.5 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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

TEST NUMBER: P1305640

CATALOG NUMBER: P3SQAS05R509024DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1305640

CATALOG NUMBER: P3SQAS05R509024DE010 E3SQCA301MMS

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	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°	48119	48119	48119	48119	48119
5°	79283	75238	46246	13727	6863
10°	77262	78958	37057	700	927
15°	78772	79253	22198	713	232
20°	124169	81136	9145	0	0
25°	161884	94519	2185	0	0
30°	181703	93487	80	0	0
35°	190146	92066	0	0	0
40°	181408	79991	0	0	0
45°	104170	52779	0	0	0
50°	111165	6028	0	0	0
55°	31678	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	893	397	0
85°	0	790	1778	790	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 115033 cd/sqm

TEST NUMBER: P1305640

CATALOG NUMBER: P3SQAS05R509024DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.5	5.2
10°-20°	59.1	13.1
20°-30°	113.6	25.2
30°-40°	132.2	29.4
40°-50°	94.6	21.0
50°-60°	26.3	5.9
60°-70°	0.2	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°	196.1	43.6
0°-40°	328.3	73.0
0°-60°	449.2	99.8
0°-90°	449.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	449.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	279	279	279	279	279	
5°	459	435	268	79	40	42
15°	442	444	124	4	1	143
25°	852	497	12	0	0	387
35°	904	438	0	0	0	560
45°	428	217	0	0	0	402
55°	106	0	0	0	0	133
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	

TEST NUMBER: P1305640

CATALOG NUMBER: P3SQAS05R509024DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	279.4	279.4	279.4	279.4	279.4	279.4	279.4	279.4	279.4	279.4	279.4
2.5°	406.1	408.3	408.7	403.4	404.3	396.8	397.2	392.0	379.2	334.6	280.7
5°	458.6	457.3	458.6	456.8	458.6	454.2	451.5	449.3	435.2	372.1	267.5
7.5°	453.7	452.0	454.6	455.5	458.6	457.3	457.7	459.0	454.2	392.4	245.0
10°	441.8	441.4	442.7	442.7	446.2	446.7	448.4	451.1	451.5	399.5	211.9
12.5°	430.4	429.0	429.0	428.6	430.4	429.9	434.3	440.5	448.9	395.0	166.4
15°	441.8	440.5	438.7	433.9	430.4	426.4	426.8	430.8	444.5	383.6	124.5
17.5°	534.5	527.5	518.6	503.2	486.8	458.6	441.8	431.2	439.2	365.9	83.0
20°	677.5	674.4	660.3	635.2	608.7	567.2	515.5	474.0	442.7	343.8	49.9
21°	731.8	730.1	715.0	691.7	661.6	611.3	558.4	508.5	449.8	334.6	39.3
22°	787.4	780.8	768.9	742.9	711.5	661.2	602.0	546.9	463.9	322.7	30.0
23°	823.2	819.2	806.4	785.7	755.7	706.7	646.2	586.2	477.6	309.4	22.5
24°	841.7	840.4	830.2	815.7	790.1	740.2	682.8	621.0	489.1	294.0	16.3
25°	851.9	847.5	841.3	830.7	811.3	768.0	716.8	651.5	497.4	278.5	11.5
26°	858.1	855.4	845.7	836.4	817.9	782.6	738.9	670.0	499.6	259.5	7.9
27°	865.1	858.9	849.7	838.6	817.9	787.0	747.3	678.0	497.0	240.1	5.3
28°	872.6	868.2	855.4	841.3	816.6	787.0	744.2	667.4	489.1	221.6	3.1
29°	887.2	881.4	865.6	844.8	817.0	786.1	732.3	645.3	478.5	200.8	1.8
30°	913.7	901.8	882.3	853.2	820.1	784.3	712.4	612.2	470.1	177.4	0.4
31°	934.4	927.8	905.3	868.6	828.9	779.5	689.0	579.5	464.3	157.1	0.0
32°	940.2	935.3	919.0	884.5	843.9	775.5	662.5	547.8	459.9	134.6	0.0
33°	933.5	930.4	913.2	881.9	847.9	770.2	632.1	516.4	455.1	114.3	0.0
34°	921.2	917.2	902.2	870.4	837.7	747.3	602.9	492.6	448.0	95.3	0.0
35°	904.4	901.3	885.9	854.5	819.2	711.5	573.8	476.7	437.9	76.4	0.0
36°	886.3	885.4	865.6	834.7	795.4	677.1	538.5	464.8	427.7	60.5	0.0
37°	874.4	870.0	848.3	817.9	767.1	636.9	510.2	460.8	413.6	46.8	0.0
38°	852.8	853.6	828.9	801.1	738.4	602.0	487.3	457.7	397.7	34.0	0.0
39°	827.2	827.6	802.0	778.2	704.5	565.4	468.3	454.6	377.8	21.6	0.0
40°	806.9	806.4	777.3	751.7	667.8	531.0	458.2	450.2	355.8	12.4	0.0
42.5°	655.9	658.5	662.1	672.7	581.7	470.5	448.4	425.5	293.1	0.0	0.0
45°	427.7	437.9	440.5	472.3	471.8	445.8	425.5	381.4	216.7	0.0	0.0
47.5°	407.0	410.0	415.8	428.1	434.8	422.0	380.5	318.7	118.3	0.0	0.0
50°	414.9	414.5	415.8	415.8	403.9	370.8	312.1	235.3	22.5	0.0	0.0
52.5°	297.9	309.0	320.9	326.2	310.7	275.9	227.8	138.2	0.0	0.0	0.0
55°	105.5	102.0	99.3	108.6	106.4	119.6	98.9	32.2	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.4	1.8	4.0	5.3	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	0.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.9



TEST NUMBER: P1305640

CATALOG NUMBER: P3SQAS05R509024DE010 E3SQCA301MMS

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	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1305640

CATALOG NUMBER: P3SQAS05R509024DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	279.4	279.4	279.4	279.4
2.5°	223.8	171.7	139.0	141.2
5°	157.1	79.4	49.0	39.7
7.5°	94.0	24.3	4.9	4.0
10°	44.1	4.0	4.4	5.3
12.5°	13.2	3.5	4.9	4.4
15°	3.5	4.0	2.2	1.3
17.5°	1.3	1.8	0.0	0.0
20°	0.9	0.0	0.0	0.0
21°	0.9	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



TEST NUMBER: P1305640

CATALOG NUMBER: P3SQAS05R509024DE010 E3SQCA301MMS

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)