

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: P1316855

Luminaire Tested: P3SQAS05R409830DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316855
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R409830DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

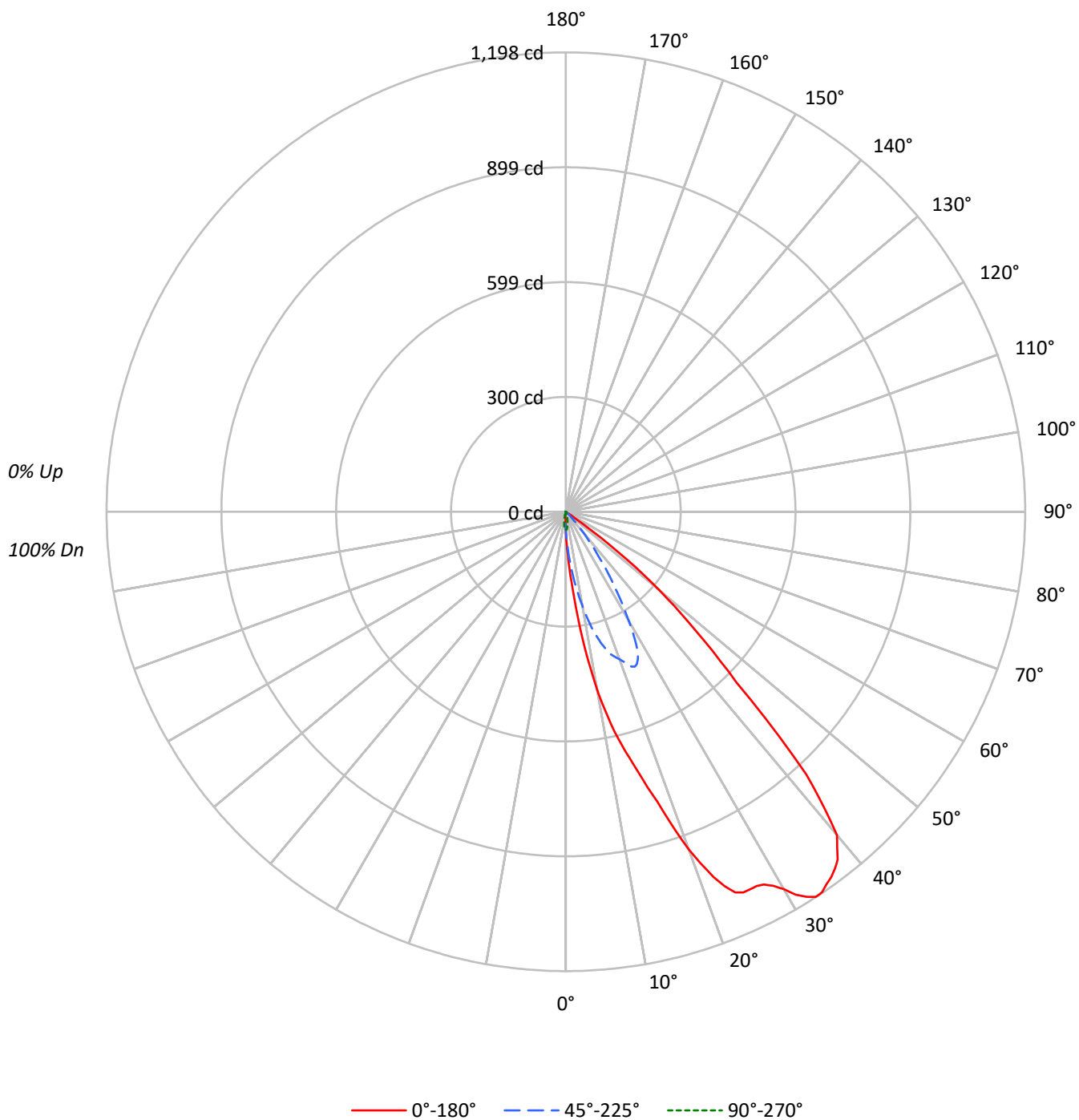
Lumens per Lamp: N/A
Luminaire Lumens: 402.0 lumens
Efficiency: N/A
Efficacy: 55.8 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

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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	0		
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	98	96	96	94	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83		
3	99	91	85	80	97	90	84	80	87	82	78	84	81	77	82	79	76	74		
4	92	83	77	72	90	82	76	71	80	74	70	78	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54		
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49		
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40		
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8094	8094	8094	8094	8094
5°	34369	23425	7105	1279	640
10°	82613	43580	4407	122	0
15°	121581	63296	1854	0	0
20°	171876	75051	678	0	0
25°	208174	83289	0	0	0
30°	226031	65148	0	0	0
35°	249224	38138	0	0	0
40°	247370	15490	0	0	0
45°	153199	4506	0	0	0
50°	85309	107	0	0	0
55°	8347	0	0	0	0
60°	0	0	138	0	0
65°	0	0	163	0	0
70°	0	201	352	0	0
75°	0	266	466	0	0
80°	0	397	694	0	0
85°	0	790	1383	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 153930 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.8	2.2
10°-20°	51.8	12.9
20°-30°	118.3	29.4
30°-40°	139.7	34.7
40°-50°	74.6	18.6
50°-60°	8.1	2.0
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°	178.9	44.5
0°-40°	318.6	79.2
0°-60°	401.3	99.8
0°-90°	402.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	402.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	47	47	47	47	47	
5°	199	136	41	7	4	28
15°	682	355	10	0	0	203
25°	1096	438	0	0	0	497
35°	1185	181	0	0	0	732
45°	629	18	0	0	0	519
55°	28	0	0	0	0	78
65°	0	0	0	0	0	0
75°	0	0	1	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°	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
2.5°	109.6	107.4	108.8	105.9	105.9	99.2	99.6	94.0	85.9	65.5	46.6
5°	198.8	207.7	200.7	191.4	186.2	179.6	170.7	161.4	135.5	81.8	41.1
7.5°	332.8	332.1	320.2	310.2	298.8	281.0	264.3	241.8	192.9	93.7	34.1
10°	472.4	469.8	456.5	448.0	426.1	400.6	366.5	330.2	249.2	97.7	25.2
12.5°	588.6	585.3	574.2	559.8	535.7	503.5	466.8	419.1	308.4	93.3	16.3
15°	681.9	681.2	670.5	650.8	625.7	594.2	552.7	495.4	355.0	81.8	10.4
17.5°	792.6	797.1	777.8	756.7	720.4	676.4	625.7	560.1	389.5	67.8	6.7
20°	937.8	931.5	913.7	883.0	848.2	795.2	723.4	629.7	409.5	52.6	3.7
21°	982.2	979.6	961.1	932.6	894.1	840.4	766.4	665.3	418.7	47.0	3.0
22°	1027.4	1022.9	1008.5	980.7	944.4	883.7	802.3	701.9	430.6	41.1	1.9
23°	1061.0	1059.2	1048.1	1020.7	983.3	924.4	841.1	736.0	438.7	35.5	1.1
24°	1087.0	1084.7	1073.6	1052.9	1020.7	959.2	880.4	772.6	442.0	30.7	0.4
25°	1095.5	1096.6	1089.9	1073.6	1046.6	985.2	909.6	801.5	438.3	26.3	0.0
26°	1095.8	1099.2	1094.4	1085.1	1062.9	1005.9	937.0	818.6	428.7	22.2	0.0
27°	1095.8	1099.2	1094.4	1087.3	1065.5	1017.7	951.8	820.4	413.9	18.9	0.0
28°	1101.0	1102.9	1096.6	1088.1	1064.4	1021.4	955.9	809.3	390.2	16.3	0.0
29°	1115.5	1113.6	1103.3	1091.8	1063.3	1021.4	943.7	788.2	360.6	13.7	0.0
30°	1136.6	1136.6	1120.3	1102.1	1068.5	1021.1	924.1	750.1	327.6	11.1	0.0
31°	1165.1	1162.5	1146.2	1119.2	1079.6	1021.1	895.2	707.9	297.3	9.6	0.0
32°	1184.3	1182.9	1167.3	1135.5	1097.7	1021.1	864.1	661.2	264.3	7.8	0.0
33°	1197.7	1194.7	1176.9	1144.0	1108.8	1015.9	829.3	611.2	234.7	6.3	0.0
34°	1195.8	1195.1	1176.6	1142.5	1106.6	994.4	788.9	555.7	207.3	5.2	0.0
35°	1185.4	1185.4	1162.9	1127.7	1090.7	962.9	749.0	508.3	181.4	3.7	0.0
36°	1177.7	1174.7	1149.2	1109.9	1064.0	913.3	689.7	460.6	153.6	3.0	0.0
37°	1166.2	1160.6	1132.1	1089.9	1026.2	859.6	627.5	418.0	129.9	1.9	0.0
38°	1151.4	1142.9	1108.1	1066.6	984.8	797.8	564.2	370.2	108.1	1.1	0.0
39°	1124.4	1117.3	1081.4	1036.6	935.2	732.7	502.8	325.4	87.4	0.4	0.0
40°	1100.3	1088.1	1047.4	995.9	877.0	659.0	441.7	281.4	68.9	0.0	0.0
42.5°	927.8	914.8	905.6	854.5	698.6	473.1	308.4	180.3	35.9	0.0	0.0
45°	629.0	632.0	603.1	568.7	460.9	308.4	192.9	100.3	18.5	0.0	0.0
47.5°	458.7	450.9	411.7	346.5	270.3	180.3	100.7	48.5	7.4	0.0	0.0
50°	318.4	303.6	268.0	219.2	147.0	85.9	44.4	22.6	0.4	0.0	0.0
52.5°	172.9	162.5	137.7	100.0	61.1	32.9	17.8	9.3	0.0	0.0	0.0
55°	27.8	19.3	20.0	17.0	13.3	9.6	5.6	1.1	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.4	0.4
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	0.0	0.4	0.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.7	0.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.7	0.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.7	0.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.7	0.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.7	0.7



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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	0.7	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.7	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.7	0.7
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°	47.0	47.0	47.0	47.0
2.5°	31.5	21.5	16.3	14.1
5°	18.1	7.4	4.1	3.7
7.5°	8.9	2.6	1.5	1.5
10°	3.7	0.7	0.0	0.0
12.5°	1.1	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0
21°	0.0	0.0	0.0	0.0
22°	0.0	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	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)