

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: P1317731

Luminaire Tested: P3SQAS05R409835DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317731
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: P3SQAS05R409835DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

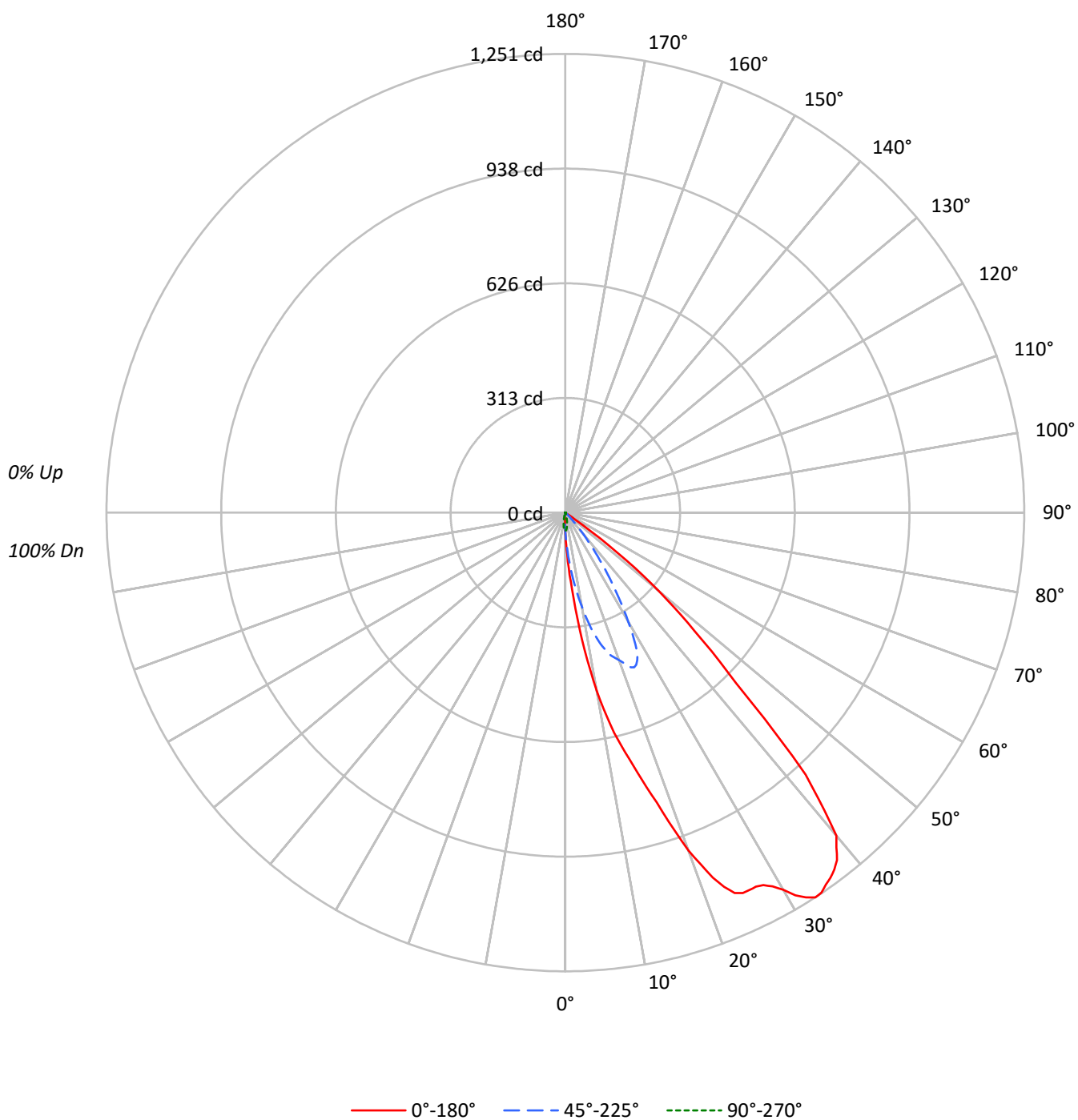
Lumens per Lamp: N/A
Luminaire Lumens: 420.0 lumens
Efficiency: N/A
Efficacy: 58.3 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	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	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	80	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°	8456	8456	8456	8456	8456
5°	35907	24480	7417	1331	674
10°	86320	45521	4599	140	0
15°	127037	66131	1926	0	0
20°	179573	78405	715	0	0
25°	217486	87032	0	0	0
30°	236153	68072	0	0	0
35°	260388	39841	0	0	0
40°	258454	16165	0	0	0
45°	160067	4701	0	0	0
50°	89114	107	0	0	0
55°	8708	0	0	0	0
60°	0	0	138	0	0
65°	0	0	163	0	0
70°	0	201	403	0	0
75°	0	266	532	0	0
80°	0	397	793	0	0
85°	0	790	1581	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 160822 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.2	2.2
10°-20°	54.1	12.9
20°-30°	123.6	29.4
30°-40°	145.9	34.7
40°-50°	78.0	18.6
50°-60°	8.5	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°	186.9	44.5
0°-40°	332.8	79.2
0°-60°	419.3	99.8
0°-90°	420.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	420.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	49	49	49	49	49	
5°	208	142	43	8	4	29
15°	712	371	11	0	0	212
25°	1144	458	0	0	0	520
35°	1238	190	0	0	0	765
45°	657	19	0	0	0	542
55°	29	0	0	0	0	81
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°	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
2.5°	114.5	112.2	113.7	110.6	110.6	103.7	104.0	98.2	89.7	68.5	48.7
5°	207.7	217.0	209.6	200.0	194.6	187.6	178.3	168.6	141.6	85.5	42.9
7.5°	347.7	347.0	334.6	324.1	312.1	293.6	276.2	252.6	201.5	97.9	35.6
10°	493.6	490.8	476.9	468.0	445.2	418.5	382.9	345.0	260.3	102.1	26.3
12.5°	615.0	611.5	599.9	584.8	559.7	526.0	487.8	437.9	322.2	97.5	17.0
15°	712.5	711.7	700.5	680.0	653.7	620.8	577.5	517.5	370.9	85.5	10.8
17.5°	828.1	832.8	812.7	790.6	752.7	706.7	653.7	585.2	406.9	70.8	7.0
20°	979.8	973.2	954.6	922.5	886.2	830.8	755.8	657.9	427.8	54.9	3.9
21°	1026.2	1023.5	1004.1	974.3	934.1	878.0	800.7	695.1	437.5	49.1	3.1
22°	1073.4	1068.7	1053.6	1024.6	986.7	923.3	838.2	733.4	449.8	42.9	1.9
23°	1108.6	1106.6	1095.0	1066.4	1027.3	965.8	878.8	769.0	458.4	37.1	1.2
24°	1135.6	1133.3	1121.7	1100.0	1066.4	1002.2	919.8	807.2	461.8	32.1	0.4
25°	1144.5	1145.7	1138.7	1121.7	1093.5	1029.3	950.4	837.4	458.0	27.5	0.0
26°	1144.9	1148.4	1143.4	1133.7	1110.5	1050.9	979.0	855.2	447.9	23.2	0.0
27°	1144.9	1148.4	1143.4	1136.0	1113.2	1063.3	994.5	857.1	432.4	19.7	0.0
28°	1150.3	1152.3	1145.7	1136.8	1112.0	1067.2	998.7	845.5	407.7	17.0	0.0
29°	1165.4	1163.5	1152.7	1140.7	1110.9	1067.2	985.9	823.5	376.7	14.3	0.0
30°	1187.5	1187.5	1170.4	1151.5	1116.3	1066.8	965.4	783.6	342.3	11.6	0.0
31°	1217.2	1214.5	1197.5	1169.3	1127.9	1066.8	935.3	739.6	310.6	10.1	0.0
32°	1237.4	1235.8	1219.6	1186.3	1146.9	1066.8	902.8	690.8	276.2	8.1	0.0
33°	1251.3	1248.2	1229.6	1195.2	1158.5	1061.4	866.4	638.6	245.2	6.6	0.0
34°	1249.4	1248.6	1229.2	1193.7	1156.1	1038.9	824.3	580.6	216.6	5.4	0.0
35°	1238.5	1238.5	1214.9	1178.2	1139.5	1006.1	782.5	531.1	189.5	3.9	0.0
36°	1230.4	1227.3	1200.6	1159.6	1111.7	954.2	720.6	481.2	160.5	3.1	0.0
37°	1218.4	1212.6	1182.8	1138.7	1072.2	898.1	655.6	436.7	135.8	1.9	0.0
38°	1202.9	1194.0	1157.7	1114.4	1028.9	833.5	589.5	386.8	112.9	1.2	0.0
39°	1174.7	1167.4	1129.8	1083.0	977.0	765.5	525.3	340.0	91.3	0.4	0.0
40°	1149.6	1136.8	1094.2	1040.5	916.3	688.5	461.4	294.0	71.9	0.0	0.0
42.5°	969.3	955.8	946.1	892.7	729.9	494.3	322.2	188.4	37.5	0.0	0.0
45°	657.2	660.3	630.1	594.1	481.6	322.2	201.5	104.8	19.3	0.0	0.0
47.5°	479.2	471.1	430.1	362.0	282.4	188.4	105.2	50.7	7.7	0.0	0.0
50°	332.6	317.2	280.0	229.0	153.6	89.7	46.4	23.6	0.4	0.0	0.0
52.5°	180.6	169.8	143.9	104.4	63.8	34.4	18.6	9.7	0.0	0.0	0.0
55°	29.0	20.1	20.9	17.8	13.9	10.1	5.8	1.2	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	0.8	0.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	0.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	0.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.8	0.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.8	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	0.8	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.8	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°	49.1	49.1	49.1	49.1
2.5°	32.9	22.4	17.0	14.7
5°	19.0	7.7	4.3	3.9
7.5°	9.3	2.7	1.5	1.5
10°	3.9	0.8	0.0	0.0
12.5°	1.2	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)