

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: P1316134

Luminaire Tested: P3SQAS09R459827DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316134
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R459827DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

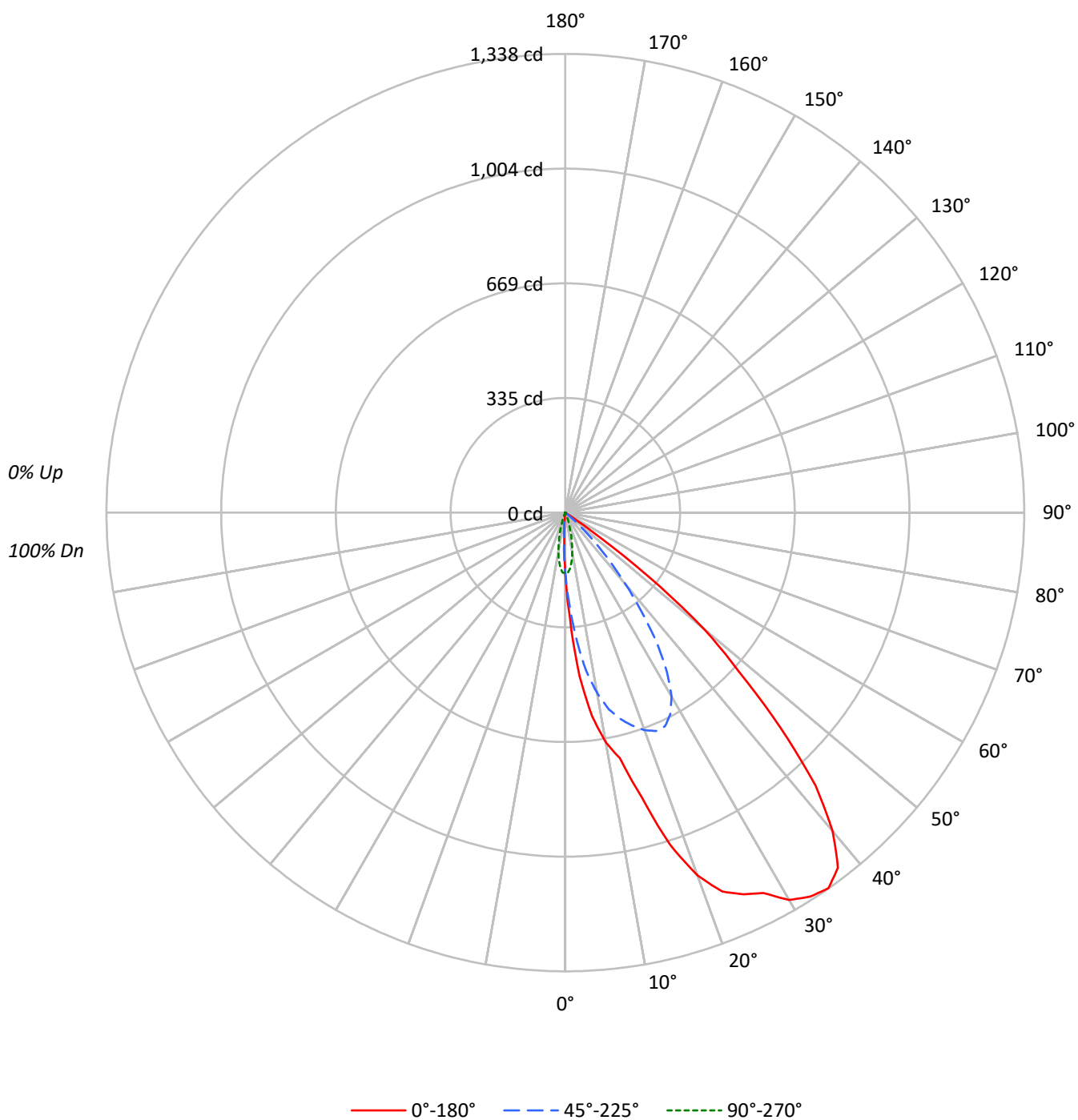
Lumens per Lamp: N/A
Luminaire Lumens: 567.0 lumens
Efficiency: N/A
Efficacy: 51.5 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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			0
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	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82		
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	63	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	61	55	51	59	54	51	49		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	30328	30328	30328	30328	30328
5°	82792	63706	28076	5636	2109
10°	118918	93456	20286	542	437
15°	153087	111169	10805	178	0
20°	206332	123693	4105	0	0
25°	233372	130662	1064	0	0
30°	259400	123177	99	0	0
35°	281203	98226	0	0	0
40°	272550	61668	0	0	0
45°	216062	29373	0	0	0
50°	141414	3671	0	0	0
55°	24291	0	0	0	0
60°	0	0	172	0	0
65°	0	204	204	0	0
70°	0	252	504	0	0
75°	0	333	665	0	0
80°	0	496	992	496	0
85°	0	988	1976	988	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 216062 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.0	3.7
10°-20°	80.8	14.2
20°-30°	151.2	26.7
30°-40°	176.5	31.1
40°-50°	115.1	20.3
50°-60°	21.4	3.8
60°-70°	0.2	0.0
70°-80°	0.4	0.1
80°-90°	0.5	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°	252.9	44.6
0°-40°	429.4	75.7
0°-60°	565.9	99.8
0°-90°	567.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	567.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	176	176	176	176	176	
5°	479	368	162	33	12	51
15°	859	624	61	1	0	256
25°	1228	688	6	0	0	568
35°	1338	467	0	0	0	820
45°	887	121	0	0	0	675
55°	81	0	0	0	0	141
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°	40°	45°	50°
0°	176.1	176.1	176.1	176.1	176.1	176.1	176.1	176.1	176.1	176.1	176.1
2.5°	310.5	313.0	307.9	305.9	299.3	300.8	289.6	285.0	277.9	266.2	260.6
5°	478.9	474.3	470.3	461.6	456.5	442.8	427.5	410.2	389.3	368.5	344.6
7.5°	599.0	595.5	593.9	586.8	576.6	562.4	542.5	520.7	493.7	465.7	429.5
10°	680.0	676.4	670.3	663.2	655.0	643.3	624.0	600.0	570.5	534.4	492.2
12.5°	732.9	732.4	722.2	714.1	703.9	693.7	673.8	654.5	625.5	588.3	540.5
15°	858.6	850.4	837.2	814.3	785.8	759.3	727.3	696.7	665.2	623.5	570.0
17.5°	1015.3	1006.2	983.8	954.8	909.0	858.6	803.6	755.3	707.9	651.5	588.3
20°	1125.8	1122.2	1103.4	1069.8	1020.9	954.3	882.0	813.8	747.1	674.9	597.0
22.5°	1196.5	1194.5	1186.9	1164.0	1114.1	1039.3	946.1	854.5	774.1	689.6	594.4
25°	1228.1	1230.6	1231.6	1220.5	1180.2	1103.9	993.5	885.6	789.4	687.6	575.1
27.5°	1250.5	1250.5	1254.6	1249.5	1208.7	1128.3	1011.8	896.3	784.3	662.6	534.4
30°	1304.4	1303.4	1306.0	1292.2	1235.7	1136.0	1003.6	878.9	755.3	619.4	475.9
32.5°	1327.8	1328.9	1328.3	1306.5	1240.8	1130.9	983.8	845.9	701.8	551.7	398.5
35°	1337.5	1332.9	1314.1	1264.2	1181.3	1063.2	927.8	789.9	627.0	467.2	314.5
37.5°	1305.4	1292.2	1250.5	1182.3	1081.0	967.5	835.2	689.6	527.8	366.4	236.7
40°	1212.3	1195.0	1142.6	1060.1	967.5	865.2	725.8	572.1	412.8	274.3	165.9
42.5°	1080.5	1060.6	1004.1	932.4	847.9	740.5	601.6	447.9	302.3	189.3	105.4
45°	887.1	875.9	843.3	782.8	699.8	588.3	461.1	326.7	209.2	120.6	53.9
47.5°	686.1	671.8	648.4	606.7	537.4	431.6	322.7	221.9	134.4	59.5	11.2
50°	527.8	511.0	482.5	436.2	363.9	288.1	209.2	138.4	68.2	13.7	0.5
52.5°	303.8	307.4	293.7	264.1	223.9	172.5	121.1	69.7	15.3	0.5	0.0
55°	80.9	87.5	85.5	92.1	80.9	68.2	50.4	13.2	1.0	0.0	0.0
57.5°	0.0	0.0	0.5	1.0	3.1	4.6	1.5	0.5	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	0.0	0.0
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	0.5	0.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
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°	176.1	176.1	176.1	176.1	176.1	176.1	176.1	176.1
2.5°	247.9	237.2	223.9	175.1	131.8	94.7	73.8	68.2
5°	321.7	295.7	262.1	162.4	81.4	32.6	14.8	12.2
7.5°	391.4	353.2	292.6	142.0	41.2	8.1	4.1	3.6
10°	445.3	393.9	315.0	116.0	15.3	3.1	2.5	2.5
12.5°	482.5	419.9	323.2	88.0	5.6	1.5	1.5	1.0
15°	503.9	430.1	315.5	60.6	2.0	1.0	0.0	0.0
17.5°	510.5	426.0	295.2	38.2	0.5	0.0	0.0	0.0
20°	504.9	406.1	263.1	22.4	0.0	0.0	0.0	0.0
22.5°	486.6	375.1	224.4	12.2	0.0	0.0	0.0	0.0
25°	452.5	331.3	179.1	5.6	0.0	0.0	0.0	0.0
27.5°	397.0	274.8	134.9	2.0	0.0	0.0	0.0	0.0
30°	333.9	214.3	95.7	0.5	0.0	0.0	0.0	0.0
32.5°	260.6	157.8	61.6	0.0	0.0	0.0	0.0	0.0
35°	195.9	110.4	36.6	0.0	0.0	0.0	0.0	0.0
37.5°	136.4	69.7	19.3	0.0	0.0	0.0	0.0	0.0
40°	85.0	37.7	6.6	0.0	0.0	0.0	0.0	0.0
42.5°	47.3	13.2	0.5	0.0	0.0	0.0	0.0	0.0
45°	11.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.5	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	0.5	0.0	0.0	0.0	0.0
60°	0.0	0.5	0.5	0.5	0.0	0.0	0.0	0.0
62.5°	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0
65°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0
67.5°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0
70°	0.5	0.5	0.5	1.0	0.5	0.0	0.0	0.0
72.5°	0.5	0.5	1.0	1.0	0.5	0.0	0.0	0.0
75°	0.5	0.5	1.0	1.0	0.5	0.0	0.0	0.0
77.5°	0.5	1.0	1.0	1.0	0.5	0.5	0.0	0.0
80°	0.5	1.0	1.0	1.0	1.0	0.5	0.0	0.0
82.5°	0.5	1.0	1.0	1.0	1.0	0.5	0.0	0.0
85°	0.5	1.0	1.0	1.0	0.5	0.5	0.0	0.0
87.5°	0.5	1.0	1.0	1.0	1.0	0.5	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)