

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: P1315068

Luminaire Tested: P3SQAS05R459740DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315068
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: P3SQAS05R459740DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

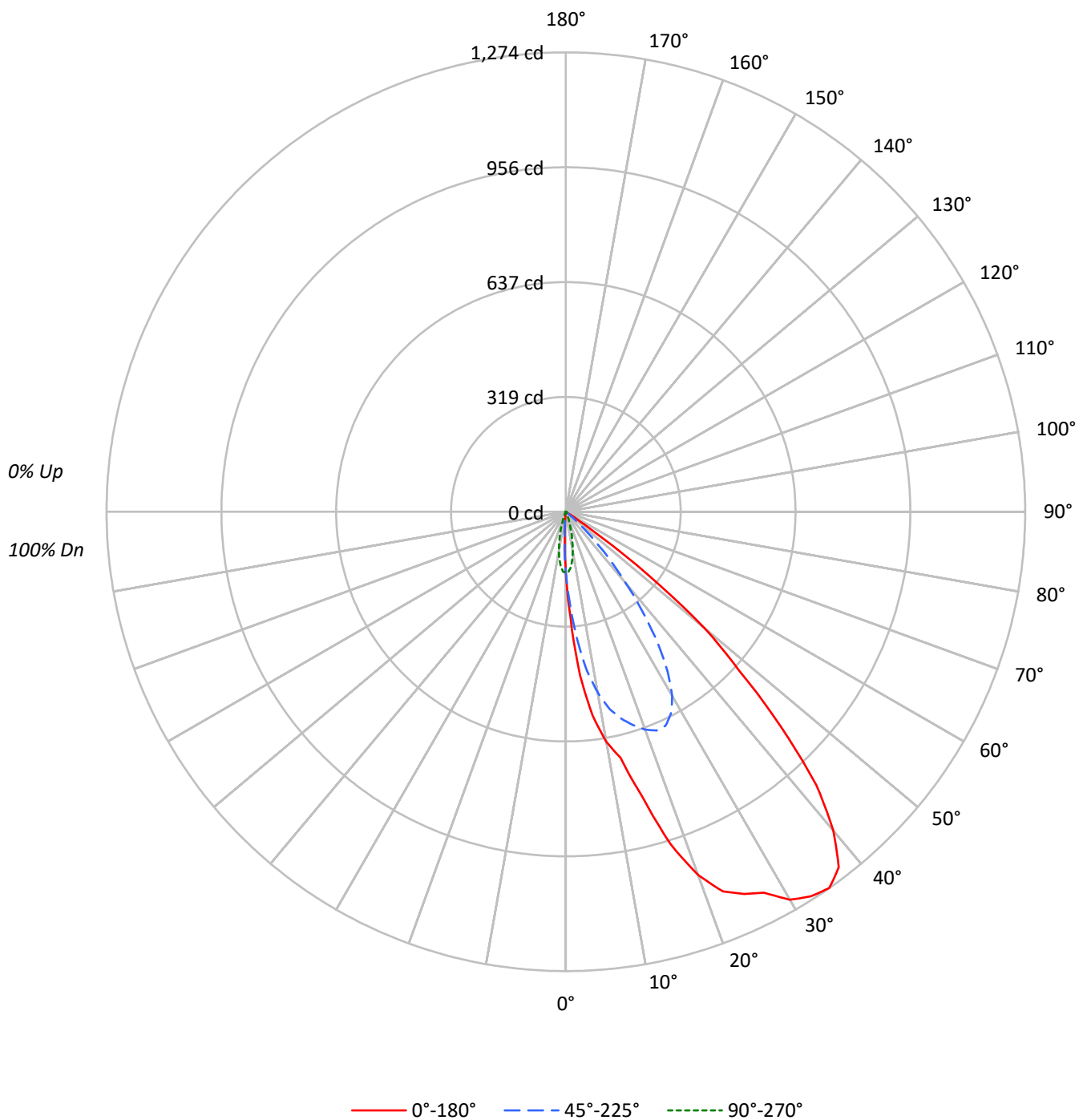
Lumens per Lamp: N/A
Luminaire Lumens: 540.0 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	28882	28882	28882	28882	28882
5°	78851	60664	26727	5359	2005
10°	113252	88996	19324	507	420
15°	145794	105873	10288	178	0
20°	196508	117791	3904	0	0
25°	222255	124429	1007	0	0
30°	247051	117311	99	0	0
35°	267810	93559	0	0	0
40°	259578	58746	0	0	0
45°	205759	27985	0	0	0
50°	134662	3510	0	0	0
55°	23150	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: 205759 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.0	3.7
10°-20°	76.9	14.2
20°-30°	144.0	26.7
30°-40°	168.1	31.1
40°-50°	109.6	20.3
50°-60°	20.4	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°	240.9	44.6
0°-40°	409.0	75.7
0°-60°	539.0	99.8
0°-90°	540.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	540.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	168	168	168	168	168	
5°	456	351	155	31	12	49
15°	818	594	58	1	0	244
25°	1170	655	5	0	0	541
35°	1274	445	0	0	0	781
45°	845	115	0	0	0	642
55°	77	0	0	0	0	134
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°	167.7	167.7	167.7	167.7	167.7	167.7	167.7	167.7	167.7	167.7	167.7
2.5°	295.7	298.1	293.2	291.3	285.0	286.5	275.8	271.4	264.7	253.5	248.2
5°	456.1	451.7	447.9	439.6	434.8	421.7	407.2	390.7	370.8	350.9	328.1
7.5°	570.5	567.1	565.7	558.9	549.2	535.6	516.7	495.9	470.2	443.5	409.1
10°	647.6	644.2	638.4	631.6	623.8	612.7	594.3	571.5	543.4	508.9	468.7
12.5°	698.0	697.5	687.8	680.0	670.4	660.7	641.8	623.3	595.7	560.3	514.8
15°	817.7	810.0	797.3	775.5	748.4	723.2	692.7	663.6	633.5	593.8	542.9
17.5°	967.0	958.3	936.9	909.3	865.7	817.7	765.4	719.3	674.2	620.4	560.3
20°	1072.2	1068.8	1050.9	1018.9	972.3	908.8	840.0	775.1	711.6	642.7	568.6
22.5°	1139.6	1137.6	1130.3	1108.5	1061.0	989.8	901.1	813.8	737.2	656.8	566.1
25°	1169.6	1172.0	1173.0	1162.3	1124.0	1051.3	946.2	843.4	751.8	654.8	547.7
27.5°	1190.9	1190.9	1194.8	1190.0	1151.2	1074.6	963.6	853.6	746.9	631.1	508.9
30°	1242.3	1241.3	1243.8	1230.7	1176.9	1081.9	955.8	837.1	719.3	589.9	453.2
32.5°	1264.6	1265.6	1265.1	1244.3	1181.7	1077.0	936.9	805.6	668.4	525.4	379.5
35°	1273.8	1269.5	1251.5	1204.0	1125.0	1012.6	883.6	752.3	597.2	445.0	299.6
37.5°	1243.3	1230.7	1190.9	1126.0	1029.5	921.4	795.4	656.8	502.6	349.0	225.4
40°	1154.6	1138.1	1088.2	1009.7	921.4	824.0	691.2	544.8	393.1	261.3	158.0
42.5°	1029.0	1010.1	956.3	888.0	807.5	705.3	572.9	426.5	287.9	180.3	100.3
45°	844.8	834.2	803.2	745.5	666.5	560.3	439.1	311.2	199.2	114.9	51.4
47.5°	653.4	639.8	617.5	577.8	511.9	411.0	307.3	211.3	128.0	56.7	10.7
50°	502.6	486.6	459.5	415.4	346.6	274.3	199.2	131.8	65.0	13.1	0.5
52.5°	289.4	292.8	279.7	251.6	213.3	164.3	115.4	66.4	14.5	0.5	0.0
55°	77.1	83.4	81.4	87.7	77.1	65.0	48.0	12.6	1.0	0.0	0.0
57.5°	0.0	0.0	0.5	1.0	2.9	4.4	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°	167.7	167.7	167.7	167.7	167.7	167.7	167.7	167.7
2.5°	236.1	225.9	213.3	166.7	125.5	90.2	70.3	65.0
5°	306.3	281.6	249.6	154.6	77.6	31.0	14.1	11.6
7.5°	372.7	336.4	278.7	135.2	39.3	7.8	3.9	3.4
10°	424.1	375.2	300.0	110.5	14.5	2.9	2.4	2.4
12.5°	459.5	399.9	307.8	83.9	5.3	1.5	1.5	1.0
15°	479.9	409.6	300.5	57.7	1.9	1.0	0.0	0.0
17.5°	486.2	405.7	281.1	36.4	0.5	0.0	0.0	0.0
20°	480.8	386.8	250.6	21.3	0.0	0.0	0.0	0.0
22.5°	463.4	357.2	213.8	11.6	0.0	0.0	0.0	0.0
25°	430.9	315.5	170.6	5.3	0.0	0.0	0.0	0.0
27.5°	378.1	261.7	128.4	1.9	0.0	0.0	0.0	0.0
30°	318.0	204.1	91.1	0.5	0.0	0.0	0.0	0.0
32.5°	248.2	150.3	58.6	0.0	0.0	0.0	0.0	0.0
35°	186.6	105.2	34.9	0.0	0.0	0.0	0.0	0.0
37.5°	129.9	66.4	18.4	0.0	0.0	0.0	0.0	0.0
40°	80.9	35.9	6.3	0.0	0.0	0.0	0.0	0.0
42.5°	45.1	12.6	0.5	0.0	0.0	0.0	0.0	0.0
45°	10.7	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)