

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: P1313124

Luminaire Tested: P3SQAS05R459730DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313124
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: P3SQAS05R459730DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

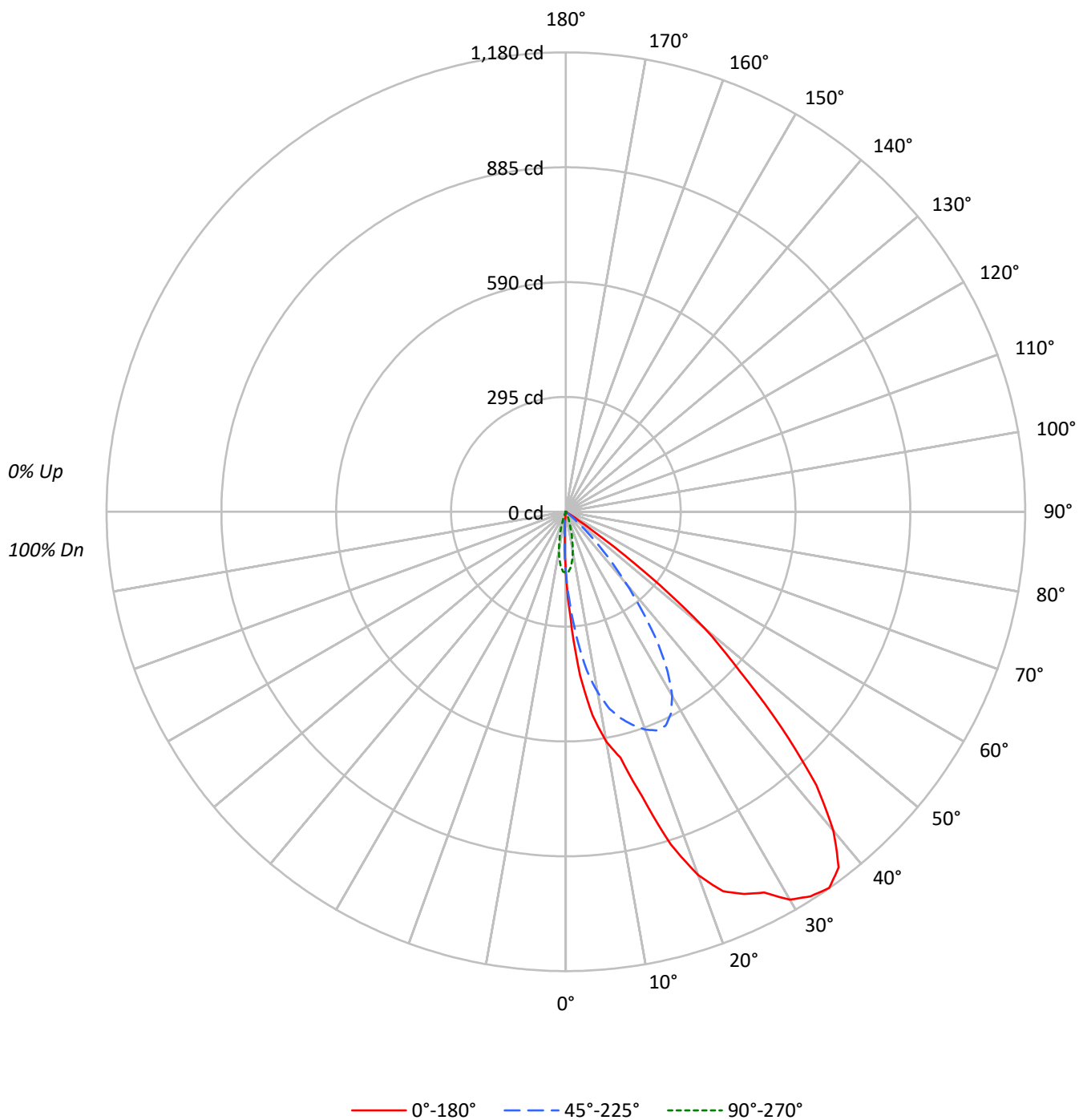
Lumens per Lamp: N/A
Luminaire Lumens: 499.9 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	93	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	84	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	76	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	68	68	67
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	62	62	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	56	56	54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	51	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	46	46	44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	42	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	26746	26746	26746	26746	26746
5°	73007	56169	24756	4962	1867
10°	104858	82403	17890	472	385
15°	134989	98028	9521	160	0
20°	181956	109067	3611	0	0
25°	205799	115213	931	0	0
30°	228755	108620	80	0	0
35°	247984	86621	0	0	0
40°	240356	54384	0	0	0
45°	190537	25915	0	0	0
50°	124695	3242	0	0	0
55°	21439	0	0	0	0
60°	0	0	138	0	0
65°	0	163	163	0	0
70°	0	201	453	0	0
75°	0	266	599	0	0
80°	0	397	893	397	0
85°	0	790	1778	790	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 190537 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.5	3.7
10°-20°	71.2	14.2
20°-30°	133.3	26.7
30°-40°	155.6	31.1
40°-50°	101.5	20.3
50°-60°	18.8	3.8
60°-70°	0.2	0.0
70°-80°	0.4	0.1
80°-90°	0.4	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°	223.1	44.6
0°-40°	378.7	75.7
0°-60°	499.0	99.8
0°-90°	499.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	499.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	155	155	155	155	155	
5°	422	325	143	29	11	45
15°	757	550	53	1	0	226
25°	1083	606	5	0	0	501
35°	1180	412	0	0	0	723
45°	782	106	0	0	0	595
55°	71	0	0	0	0	124
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°	155.3	155.3	155.3	155.3	155.3	155.3	155.3	155.3	155.3	155.3	155.3
2.5°	273.8	276.0	271.5	269.7	263.9	265.2	255.4	251.3	245.0	234.7	229.8
5°	422.3	418.3	414.7	407.1	402.6	390.5	377.0	361.7	343.3	324.9	303.8
7.5°	528.2	525.1	523.8	517.5	508.5	495.9	478.4	459.1	435.3	410.7	378.8
10°	599.6	596.5	591.1	584.8	577.6	567.3	550.2	529.1	503.1	471.2	434.0
12.5°	646.3	645.8	636.9	629.7	620.7	611.7	594.2	577.2	551.6	518.8	476.6
15°	757.1	750.0	738.3	718.1	693.0	669.6	641.3	614.4	586.6	549.8	502.7
17.5°	895.4	887.3	867.5	842.0	801.6	757.1	708.7	666.0	624.3	574.5	518.8
20°	992.8	989.6	973.0	943.4	900.3	841.5	777.8	717.6	658.8	595.1	526.4
22.5°	1055.1	1053.3	1046.6	1026.4	982.4	916.5	834.3	753.5	682.6	608.1	524.2
25°	1083.0	1085.2	1086.1	1076.2	1040.8	973.5	876.1	780.9	696.1	606.3	507.2
27.5°	1102.7	1102.7	1106.3	1101.8	1065.9	995.0	892.2	790.3	691.6	584.3	471.2
30°	1150.3	1149.4	1151.6	1139.5	1089.7	1001.7	885.0	775.1	666.0	546.2	419.6
32.5°	1170.9	1171.8	1171.4	1152.1	1094.2	997.2	867.5	745.9	618.9	486.5	351.4
35°	1179.5	1175.4	1158.8	1114.8	1041.7	937.6	818.2	696.5	552.9	412.0	277.4
37.5°	1151.2	1139.5	1102.7	1042.6	953.3	853.2	736.5	608.1	465.4	323.1	208.7
40°	1069.1	1053.8	1007.6	934.9	853.2	763.0	640.0	504.5	364.0	241.9	146.3
42.5°	952.8	935.3	885.5	822.2	747.7	653.0	530.5	394.9	266.6	167.0	92.9
45°	782.3	772.4	743.7	690.3	617.1	518.8	406.6	288.1	184.5	106.4	47.6
47.5°	605.0	592.4	571.8	535.0	473.9	380.6	284.5	195.7	118.5	52.5	9.9
50°	465.4	450.6	425.5	384.6	320.9	254.0	184.5	122.1	60.1	12.1	0.4
52.5°	267.9	271.1	259.0	232.9	197.5	152.1	106.8	61.5	13.5	0.4	0.0
55°	71.4	77.2	75.4	81.2	71.4	60.1	44.4	11.7	0.9	0.0	0.0
57.5°	0.0	0.0	0.4	0.9	2.7	4.0	1.3	0.4	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	0.4	0.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.4	0.4	0.4	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
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°	155.3	155.3	155.3	155.3	155.3	155.3	155.3	155.3
2.5°	218.6	209.1	197.5	154.4	116.2	83.5	65.1	60.1
5°	283.6	260.8	231.1	143.2	71.8	28.7	13.0	10.8
7.5°	345.1	311.5	258.1	125.2	36.4	7.2	3.6	3.1
10°	392.7	347.4	277.8	102.3	13.5	2.7	2.2	2.2
12.5°	425.5	370.3	285.0	77.6	4.9	1.3	1.3	0.9
15°	444.3	379.2	278.3	53.4	1.8	0.9	0.0	0.0
17.5°	450.2	375.7	260.3	33.7	0.4	0.0	0.0	0.0
20°	445.2	358.1	232.0	19.7	0.0	0.0	0.0	0.0
22.5°	429.1	330.8	197.9	10.8	0.0	0.0	0.0	0.0
25°	399.0	292.2	158.0	4.9	0.0	0.0	0.0	0.0
27.5°	350.1	242.4	118.9	1.8	0.0	0.0	0.0	0.0
30°	294.4	188.9	84.4	0.4	0.0	0.0	0.0	0.0
32.5°	229.8	139.1	54.3	0.0	0.0	0.0	0.0	0.0
35°	172.8	97.4	32.3	0.0	0.0	0.0	0.0	0.0
37.5°	120.3	61.5	17.1	0.0	0.0	0.0	0.0	0.0
40°	75.0	33.2	5.8	0.0	0.0	0.0	0.0	0.0
42.5°	41.7	11.7	0.4	0.0	0.0	0.0	0.0	0.0
45°	9.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.4	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	0.4	0.0	0.0	0.0	0.0
60°	0.0	0.4	0.4	0.4	0.0	0.0	0.0	0.0
62.5°	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
65°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0
67.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0
70°	0.4	0.4	0.4	0.9	0.4	0.0	0.0	0.0
72.5°	0.4	0.4	0.9	0.9	0.4	0.0	0.0	0.0
75°	0.4	0.4	0.9	0.9	0.4	0.0	0.0	0.0
77.5°	0.4	0.9	0.9	0.9	0.4	0.4	0.0	0.0
80°	0.4	0.9	0.9	0.9	0.9	0.4	0.0	0.0
82.5°	0.4	0.9	0.9	0.9	0.9	0.4	0.0	0.0
85°	0.4	0.9	0.9	0.9	0.4	0.4	0.0	0.0
87.5°	0.4	0.9	0.9	0.9	0.9	0.4	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)