

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: P1312516

Luminaire Tested: P3SQAS13R709727DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312516
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-57)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R709727DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 97CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

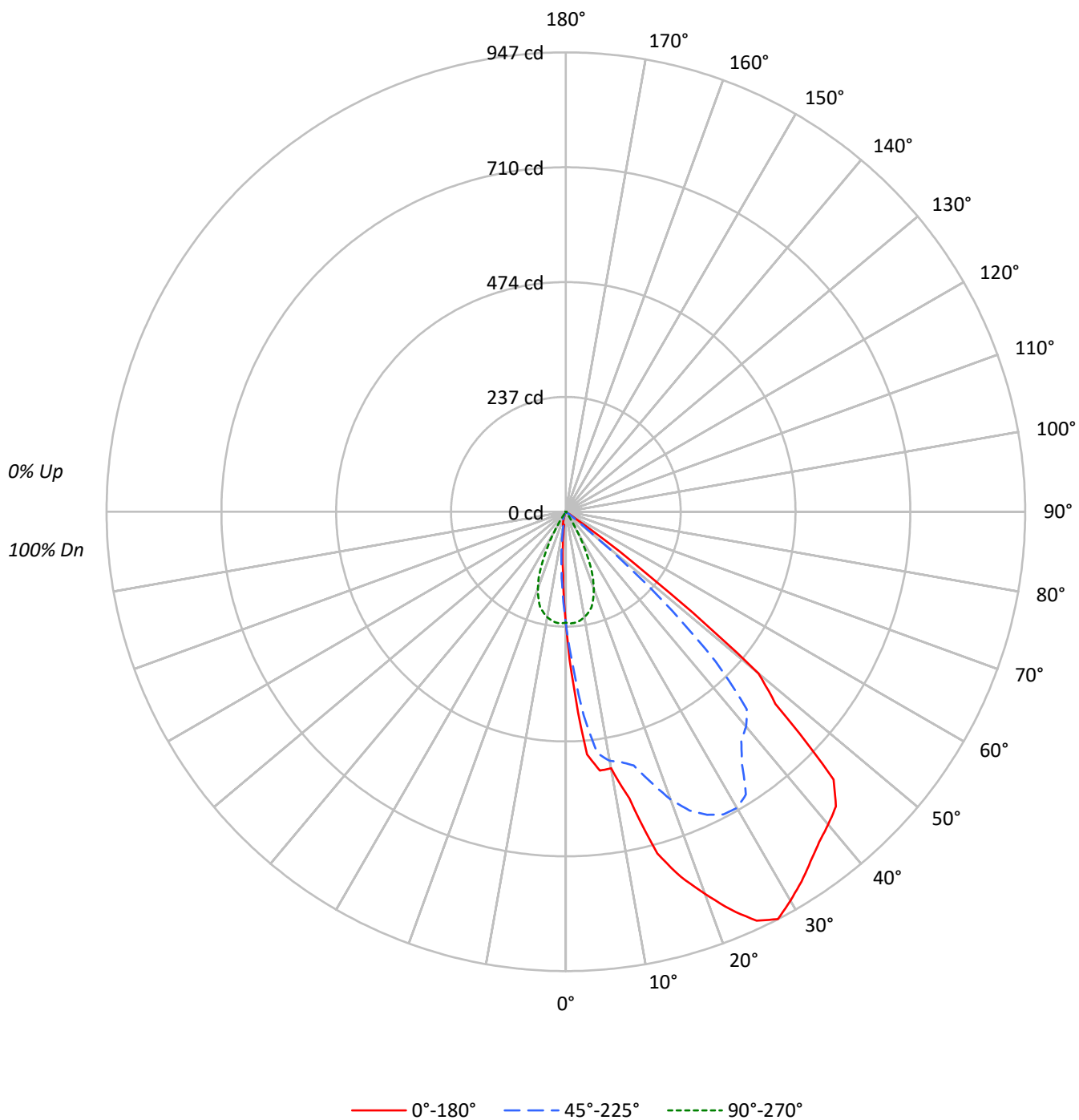
Lumens per Lamp: N/A
Luminaire Lumens: 616.0 lumens
Efficiency: N/A
Efficacy: 42.2 lumens/watt
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	99	94	90	103	98	93	89	94	90	87	91	88	85	88	86	84	82		
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73		
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66		
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59		
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53		
7	74	63	56	50	73	62	55	50	61	55	50	59	54	50	58	53	49	48		
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43		
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39		
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	39370	39370	39370	39370	39370
5°	86855	72886	39676	18031	11877
10°	93945	91217	38613	5019	5176
15°	130033	96566	36426	5117	3726
20°	153585	115665	30900	3024	1118
25°	176744	130985	21796	494	0
30°	184110	140200	10023	0	0
35°	184953	132875	547	0	0
40°	189187	129969	0	0	0
45°	190123	106484	0	0	0
50°	138815	22131	0	0	0
55°	7837	0	0	0	0
60°	0	310	310	0	0
65°	0	0	367	0	0
70°	0	453	453	0	0
75°	0	599	599	0	0
80°	0	893	893	893	0
85°	0	1778	1778	1778	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 193727 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.0	4.1
10°-20°	83.5	13.6
20°-30°	150.1	24.4
30°-40°	182.5	29.6
40°-50°	140.9	22.9
50°-60°	32.8	5.3
60°-70°	0.2	0.0
70°-80°	0.5	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°	258.6	42.0
0°-40°	441.2	71.6
0°-60°	614.9	99.8
0°-90°	616.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	616.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	229	229	229	229	229	
5°	502	422	230	104	69	47
15°	729	542	204	29	21	204
25°	930	689	115	3	0	423
35°	880	632	3	0	0	553
45°	781	437	0	0	0	552
55°	26	0	0	0	0	107
65°	0	0	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	1	1	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°	228.6	228.6	228.6	228.6	228.6	228.6	228.6	228.6	228.6	228.6	228.6
2.5°	356.4	356.4	358.1	357.3	349.4	346.0	334.7	328.6	326.8	312.9	307.7
5°	502.4	503.3	499.0	498.1	489.4	483.3	473.8	459.0	444.2	421.6	401.6
7.5°	538.1	537.2	536.3	536.3	534.6	531.1	526.8	522.4	516.3	502.4	486.8
10°	537.2	537.2	536.3	536.3	535.5	536.3	535.5	532.9	530.3	521.6	512.9
12.5°	605.0	599.8	592.8	582.4	565.0	552.0	537.2	532.9	531.1	528.5	523.3
15°	729.3	725.0	710.2	691.9	674.6	645.0	621.5	589.4	564.2	541.6	530.3
17.5°	789.3	791.9	775.4	764.1	747.6	724.1	696.3	663.3	627.6	585.0	551.1
20°	838.0	840.6	826.7	815.4	796.3	771.9	747.6	711.9	678.0	631.1	586.8
22.5°	887.5	889.3	876.2	859.7	838.0	812.8	781.5	745.0	708.5	666.7	619.8
25°	930.1	928.4	906.7	883.2	862.3	835.4	804.9	769.3	734.5	689.3	645.0
27.5°	946.6	945.8	921.4	898.8	874.5	838.0	811.0	779.7	743.2	703.2	658.0
30°	925.8	939.7	924.0	907.5	878.0	841.5	815.4	778.0	744.1	705.0	653.7
32.5°	904.0	921.4	916.2	908.4	873.6	844.9	811.0	776.3	736.3	691.1	612.8
35°	879.7	898.0	898.8	890.1	858.8	830.2	798.9	762.4	717.2	632.0	574.6
37.5°	858.0	875.4	880.6	862.3	838.0	799.7	771.0	732.8	651.1	593.7	564.2
40°	841.5	854.5	862.3	833.6	809.3	771.9	738.9	671.9	598.1	578.1	536.3
42.5°	824.1	836.2	839.7	808.4	771.0	735.4	687.6	603.3	581.5	552.0	439.9
45°	780.6	795.4	786.7	756.3	728.5	691.1	619.8	583.3	559.8	437.2	270.3
47.5°	585.9	602.4	625.9	634.6	644.1	617.2	578.1	565.0	459.8	265.1	84.3
50°	518.1	515.5	515.5	519.8	527.6	536.3	547.6	476.4	276.4	82.6	0.0
52.5°	211.2	221.7	273.0	319.0	372.0	425.1	441.6	292.1	107.8	1.7	0.0
55°	26.1	26.1	36.5	62.6	103.4	166.9	187.8	93.9	7.8	0.0	0.0
57.5°	0.0	0.0	0.0	0.9	7.0	19.1	13.0	3.5	0.9	0.9	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
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	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
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°	228.6	228.6	228.6	228.6	228.6	228.6	228.6	228.6
2.5°	299.0	288.6	273.8	230.4	193.0	159.9	140.8	131.3
5°	382.5	357.3	323.4	229.5	156.5	104.3	78.2	68.7
7.5°	462.5	433.8	376.4	226.0	120.0	60.8	33.9	26.9
10°	497.2	476.4	425.1	220.8	86.9	28.7	28.7	29.6
12.5°	511.1	495.5	453.8	213.0	57.4	27.8	29.6	27.8
15°	520.7	505.9	467.7	204.3	33.0	28.7	23.5	20.9
17.5°	525.9	508.5	472.0	187.8	21.7	24.3	14.8	12.2
20°	542.4	514.6	475.5	168.6	20.9	16.5	7.8	6.1
22.5°	570.2	526.8	476.4	145.2	16.5	9.6	2.6	0.0
25°	595.5	543.3	479.0	114.7	5.2	2.6	0.0	0.0
27.5°	607.6	548.5	478.1	80.8	0.0	0.0	0.0	0.0
30°	592.8	535.5	470.3	50.4	0.0	0.0	0.0	0.0
32.5°	558.1	525.9	445.9	21.7	0.0	0.0	0.0	0.0
35°	546.8	505.0	390.3	2.6	0.0	0.0	0.0	0.0
37.5°	521.6	445.1	286.9	0.0	0.0	0.0	0.0	0.0
40°	448.5	321.6	136.5	0.0	0.0	0.0	0.0	0.0
42.5°	296.4	137.3	7.8	0.0	0.0	0.0	0.0	0.0
45°	104.3	8.7	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.7	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	0.0	0.0	0.0	0.0	0.0
60°	0.9	0.9	0.9	0.9	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
65°	0.0	0.0	0.9	0.9	0.0	0.0	0.0	0.0
67.5°	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0
70°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0
72.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0
75°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0
77.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0
87.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)