

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: P1312191

Luminaire Tested: P3SQAS05R709727DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312191
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: P3SQAS05R709727DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 97CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

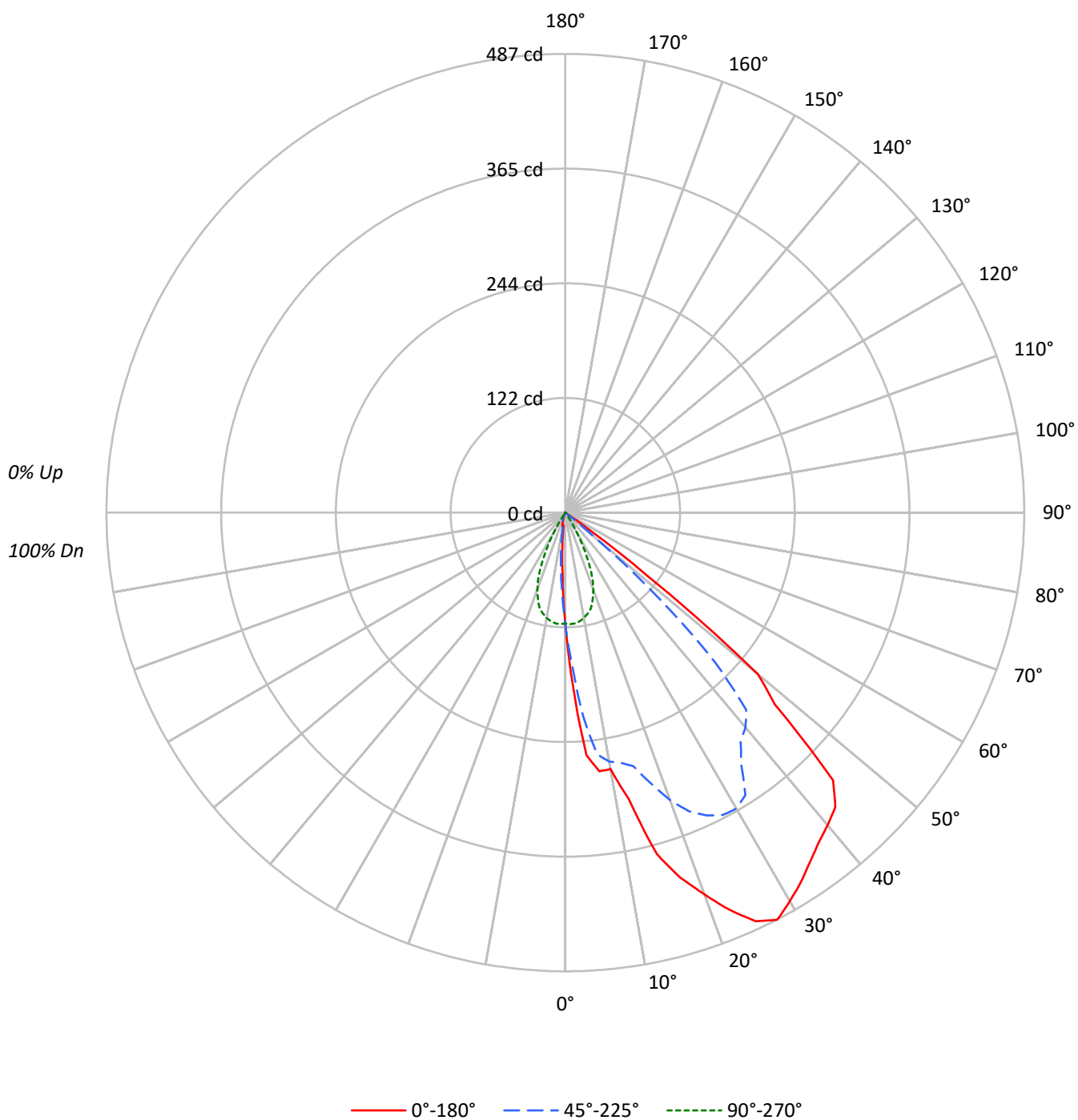
Lumens per Lamp: N/A
Luminaire Lumens: 316.9 lumens
Efficiency: N/A
Efficacy: 44.0 lumens/watt
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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	91	87	91	88	85	88	86	84	82		
3	98	90	84	79	96	89	83	79	86	81	78	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°	20253	20253	20253	20253	20253
5°	44707	37515	20417	9284	6103
10°	48354	46938	19866	2588	2658
15°	66915	49692	18739	2639	1908
20°	79028	59528	15908	1558	568
25°	90966	67402	11212	247	0
30°	94740	72148	5151	0	0
35°	95178	68372	273	0	0
40°	97347	66884	0	0	0
45°	97838	54801	0	0	0
50°	71430	11387	0	0	0
55°	4023	0	0	0	0
60°	0	138	138	0	0
65°	0	0	163	0	0
70°	0	201	201	0	0
75°	0	266	266	0	0
80°	0	397	397	397	0
85°	0	790	790	790	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 99689 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.9	4.1
10°-20°	43.0	13.6
20°-30°	77.3	24.4
30°-40°	93.9	29.6
40°-50°	72.5	22.9
50°-60°	16.9	5.3
60°-70°	0.1	0.0
70°-80°	0.2	0.1
80°-90°	0.2	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°	133.1	42.0
0°-40°	227.0	71.6
0°-60°	316.4	99.8
0°-90°	316.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	316.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	118	118	118	118	118	
5°	259	217	118	54	35	24
15°	375	279	105	15	11	105
25°	479	355	59	1	0	218
35°	453	325	1	0	0	284
45°	402	225	0	0	0	284
55°	13	0	0	0	0	55
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	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°	117.6	117.6	117.6	117.6	117.6	117.6	117.6	117.6	117.6	117.6	117.6
2.5°	183.4	183.4	184.3	183.9	179.8	178.0	172.2	169.1	168.2	161.0	158.4
5°	258.6	259.0	256.8	256.3	251.9	248.7	243.8	236.2	228.6	217.0	206.7
7.5°	276.9	276.5	276.0	276.0	275.1	273.3	271.1	268.8	265.7	258.6	250.5
10°	276.5	276.5	276.0	276.0	275.6	276.0	275.6	274.2	272.9	268.4	263.9
12.5°	311.3	308.7	305.1	299.7	290.8	284.1	276.5	274.2	273.3	272.0	269.3
15°	375.3	373.1	365.5	356.1	347.1	331.9	319.8	303.3	290.3	278.7	272.9
17.5°	406.2	407.5	399.0	393.2	384.7	372.6	358.3	341.3	323.0	301.1	283.6
20°	431.2	432.6	425.4	419.6	409.8	397.2	384.7	366.4	348.9	324.8	302.0
22.5°	456.7	457.6	450.9	442.4	431.2	418.3	402.2	383.4	364.6	343.1	319.0
25°	478.7	477.8	466.6	454.5	443.8	429.9	414.2	395.9	378.0	354.7	331.9
27.5°	487.2	486.7	474.2	462.5	450.0	431.2	417.4	401.3	382.5	361.9	338.6
30°	476.4	483.6	475.5	467.0	451.8	433.0	419.6	400.4	382.9	362.8	336.4
32.5°	465.2	474.2	471.5	467.5	449.6	434.8	417.4	399.5	378.9	355.6	315.4
35°	452.7	462.1	462.5	458.1	442.0	427.2	411.1	392.3	369.1	325.2	295.7
37.5°	441.5	450.5	453.2	443.8	431.2	411.6	396.8	377.1	335.1	305.5	290.3
40°	433.0	439.7	443.8	429.0	416.5	397.2	380.2	345.8	307.8	297.5	276.0
42.5°	424.1	430.3	432.1	416.0	396.8	378.4	353.8	310.5	299.3	284.1	226.4
45°	401.7	409.3	404.8	389.2	374.9	355.6	319.0	300.2	288.1	225.0	139.1
47.5°	301.5	310.0	322.1	326.6	331.5	317.6	297.5	290.8	236.6	136.4	43.4
50°	266.6	265.3	265.3	267.5	271.5	276.0	281.8	245.1	142.3	42.5	0.0
52.5°	108.7	114.1	140.5	164.2	191.5	218.7	227.2	150.3	55.5	0.9	0.0
55°	13.4	13.4	18.8	32.2	53.2	85.9	96.6	48.3	4.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.4	3.6	9.8	6.7	1.8	0.4	0.4	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.4	0.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.4	0.4	0.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	117.6	117.6	117.6	117.6	117.6	117.6	117.6	117.6
2.5°	153.9	148.5	140.9	118.5	99.3	82.3	72.5	67.5
5°	196.8	183.9	166.4	118.1	80.5	53.7	40.3	35.3
7.5°	238.0	223.2	193.7	116.3	61.7	31.3	17.4	13.9
10°	255.9	245.1	218.7	113.6	44.7	14.8	14.8	15.2
12.5°	263.0	255.0	233.5	109.6	29.5	14.3	15.2	14.3
15°	268.0	260.4	240.7	105.1	17.0	14.8	12.1	10.7
17.5°	270.6	261.7	242.9	96.6	11.2	12.5	7.6	6.3
20°	279.1	264.8	244.7	86.8	10.7	8.5	4.0	3.1
22.5°	293.5	271.1	245.1	74.7	8.5	4.9	1.3	0.0
25°	306.4	279.6	246.5	59.0	2.7	1.3	0.0	0.0
27.5°	312.7	282.3	246.0	41.6	0.0	0.0	0.0	0.0
30°	305.1	275.6	242.0	25.9	0.0	0.0	0.0	0.0
32.5°	287.2	270.6	229.5	11.2	0.0	0.0	0.0	0.0
35°	281.4	259.9	200.9	1.3	0.0	0.0	0.0	0.0
37.5°	268.4	229.0	147.6	0.0	0.0	0.0	0.0	0.0
40°	230.8	165.5	70.2	0.0	0.0	0.0	0.0	0.0
42.5°	152.5	70.7	4.0	0.0	0.0	0.0	0.0	0.0
45°	53.7	4.5	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.9	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°	0.4	0.4	0.4	0.4	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	0.4	0.4	0.0	0.0	0.0	0.0
67.5°	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
70°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0
72.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0
75°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0
77.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0
87.5°	0.4	0.4	0.4	0.4	0.4	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)