

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: P1313166

Luminaire Tested: P3SQAS05R709730DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313166
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R709730DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 97CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

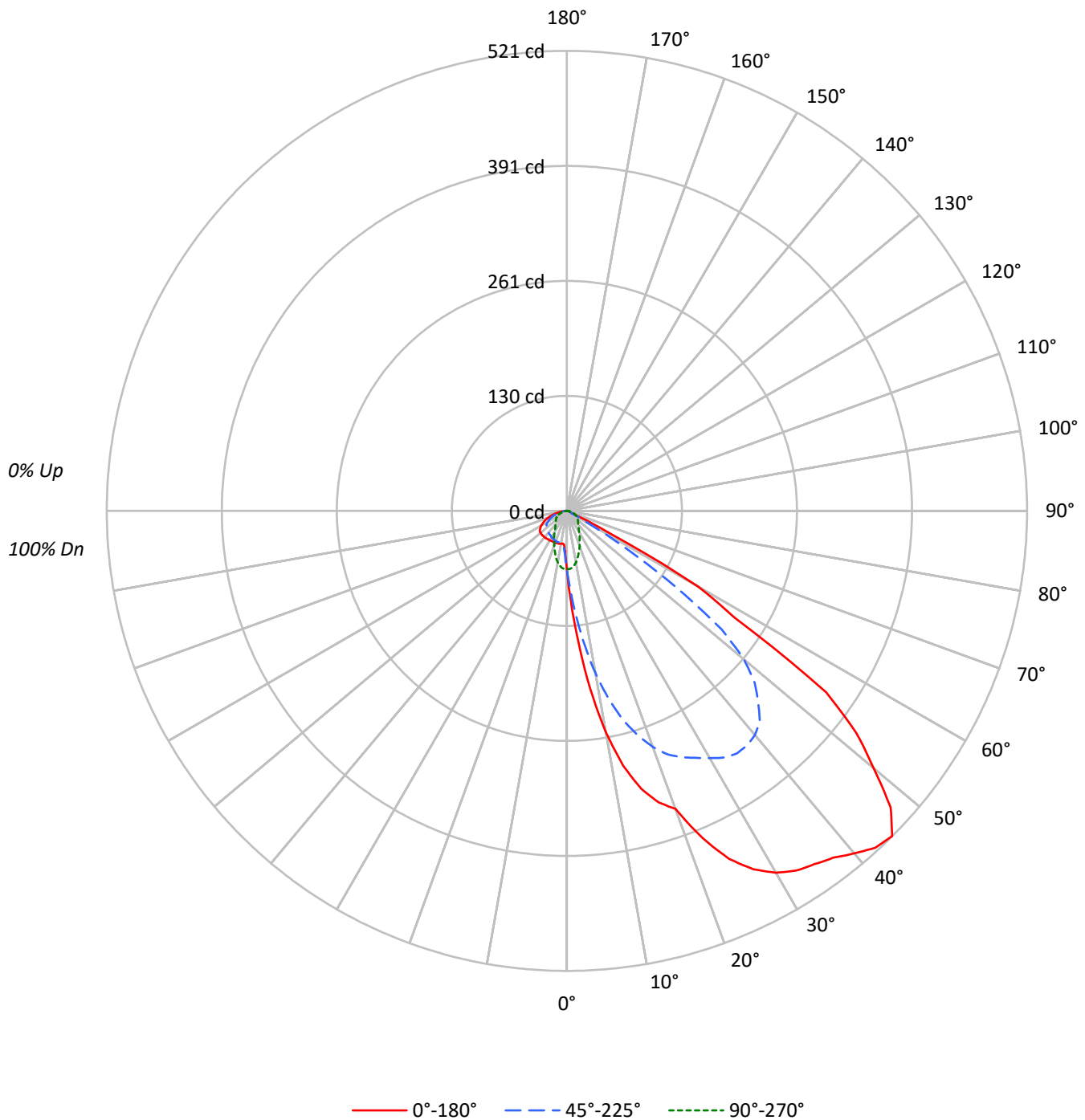
Lumens per Lamp: N/A
Luminaire Lumens: 450.0 lumens
Efficiency: N/A
Efficacy: 62.5 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87	87	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75	75	75
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64	64	64
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	54	54	54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47	47	47
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41	41	41
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35	35	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31	31	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28	28	28
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25	25	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	11281	11281	11281	11281	11281
5°	25690	20573	11185	7071	6604
10°	44524	32667	10370	6436	6593
15°	58107	43630	9040	6561	6811
20°	65833	52160	7734	6671	7074
25°	82662	58528	6480	6746	7259
30°	94103	64293	5528	6881	7676
35°	102705	70516	4815	6980	8115
40°	113849	74483	4451	7262	8790
45°	126846	74578	4384	7648	9523
50°	121507	70118	4340	8065	10342
55°	107584	45429	4444	8497	11200
60°	58935	9748	4478	8646	11608
65°	4197	2364	4401	8599	11696
70°	2014	2266	4079	8157	11279
75°	1797	2396	3859	7785	10447
80°	1785	2182	3570	7141	9819
85°	1778	2569	3557	6126	8892

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 126846 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.6	1.9
10°-20°	36.6	8.1
20°-30°	70.2	15.6
30°-40°	99.2	22.1
40°-50°	112.2	24.9
50°-60°	88.9	19.8
60°-70°	24.0	5.3
70°-80°	8.0	1.8
80°-90°	2.4	0.5
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°	115.3	25.6
0°-40°	214.5	47.7
0°-60°	415.6	92.4
0°-90°	450.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	450.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	66	66	66	66	66	
5°	149	119	65	41	38	18
15°	326	245	51	37	38	92
25°	435	308	34	36	38	199
35°	488	335	23	33	39	308
45°	521	306	18	31	39	390
55°	358	151	15	28	37	291
65°	10	6	11	21	29	37
75°	3	4	6	12	16	3
85°	1	1	2	3	4	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
2.5°	101.9	101.9	101.5	99.7	98.8	96.5	94.7	89.8	77.7	66.0	56.6
5°	148.6	150.9	147.7	147.3	144.6	140.5	137.8	119.0	89.8	64.7	48.5
7.5°	203.8	204.7	203.8	199.3	195.3	188.6	182.3	152.6	101.9	62.4	42.7
10°	254.6	253.2	250.5	247.4	241.5	234.4	223.6	186.8	113.6	59.3	39.1
12.5°	295.9	295.4	292.3	289.1	282.0	272.5	261.7	217.7	123.5	55.2	37.3
15°	325.9	325.9	322.8	319.2	312.5	304.8	292.7	244.7	131.5	50.7	35.5
17.5°	346.2	345.3	343.0	340.3	334.9	327.3	317.9	266.2	136.9	46.2	35.0
20°	359.2	358.7	356.9	352.9	348.4	342.6	334.0	284.6	139.2	42.2	34.6
22.5°	400.9	397.3	390.6	382.1	371.3	357.4	345.7	298.6	138.3	37.7	33.7
25°	435.0	433.7	426.5	416.2	401.8	383.9	364.6	308.0	133.8	34.1	32.8
27.5°	457.5	455.3	448.5	437.3	422.0	404.5	386.6	315.2	127.5	31.0	31.4
30°	473.2	471.9	465.1	452.6	436.8	417.5	399.1	323.3	119.0	27.8	30.1
32.5°	483.1	481.7	475.0	463.8	448.5	428.3	407.2	331.3	108.6	25.1	28.7
35°	488.5	487.1	479.5	469.6	455.3	435.5	413.0	335.4	96.1	22.9	27.4
37.5°	495.2	492.5	482.2	470.1	455.7	437.3	414.8	334.9	83.5	21.1	26.5
40°	506.4	499.2	484.4	468.3	453.5	435.0	413.5	331.3	69.6	19.8	25.6
42.5°	517.2	506.9	484.9	465.6	449.0	431.0	408.6	323.3	54.3	18.9	25.1
45°	520.8	505.5	478.6	459.3	443.6	425.2	401.8	306.2	36.8	18.0	24.2
47.5°	497.0	485.8	463.3	449.0	434.1	416.2	391.9	288.2	21.1	17.1	23.3
50°	453.5	446.3	433.7	424.7	416.6	404.1	380.3	261.7	12.6	16.2	22.4
52.5°	413.0	410.8	401.8	394.6	390.2	384.3	362.8	220.9	10.3	15.7	21.6
55°	358.3	351.1	348.8	346.2	355.6	355.1	325.9	151.3	9.9	14.8	20.7
57.5°	224.9	228.1	239.7	261.3	286.9	301.7	300.8	80.8	9.4	13.9	19.3
60°	171.1	170.6	174.2	183.2	202.0	223.1	242.9	28.3	9.0	13.0	18.4
62.5°	51.2	52.5	63.3	92.9	111.3	137.4	125.3	6.7	8.5	11.7	16.6
65°	10.3	10.8	10.8	12.1	14.8	22.4	27.4	5.8	8.1	10.8	15.3
67.5°	4.5	4.5	4.5	4.9	4.9	5.8	4.9	5.4	7.2	9.4	13.5
70°	4.0	4.0	4.0	4.0	4.0	4.0	4.5	4.5	6.3	8.1	11.7
72.5°	3.1	3.1	3.1	3.6	3.6	3.6	3.6	4.0	5.4	6.7	9.9
75°	2.7	2.7	2.7	2.7	3.1	3.1	3.1	3.6	4.5	5.8	8.1
77.5°	2.2	2.2	2.2	2.2	2.2	2.7	2.7	2.7	3.6	4.5	6.7
80°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.2	2.7	3.6	4.9
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.8	2.2	2.7	3.6
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.3	1.8	2.2
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9	0.9	1.3
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):

	135°	157.5°	180°
0°	65.5	65.5	65.5
2.5°	49.8	47.1	45.8
5°	40.9	38.6	38.2
7.5°	37.7	37.3	37.3
10°	36.8	37.3	37.7
12.5°	36.8	37.7	38.2
15°	36.8	37.7	38.2
17.5°	36.8	37.7	38.2
20°	36.4	37.7	38.6
22.5°	35.9	37.7	38.2
25°	35.5	37.7	38.2
27.5°	35.0	37.3	38.2
30°	34.6	37.3	38.6
32.5°	33.7	37.3	38.6
35°	33.2	37.3	38.6
37.5°	32.8	37.3	39.1
40°	32.3	37.3	39.1
42.5°	31.9	37.3	39.1
45°	31.4	36.8	39.1
47.5°	30.5	36.8	39.1
50°	30.1	36.4	38.6
52.5°	29.2	35.9	38.6
55°	28.3	35.0	37.3
57.5°	26.9	33.7	35.5
60°	25.1	31.9	33.7
62.5°	22.9	29.6	31.0
65°	21.1	26.9	28.7
67.5°	18.4	23.8	25.6
70°	16.2	20.7	22.4
72.5°	13.9	17.5	19.3
75°	11.7	14.4	15.7
77.5°	9.0	11.7	12.6
80°	7.2	9.0	9.9
82.5°	4.9	6.3	6.7
85°	3.1	4.0	4.5
87.5°	1.3	1.8	1.8
90°	0.0	0.0	0.0

(END OF REPORT)