

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: P1315110

Luminaire Tested: P3SQAS05R709740DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315110
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: P3SQAS05R709740DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 97CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

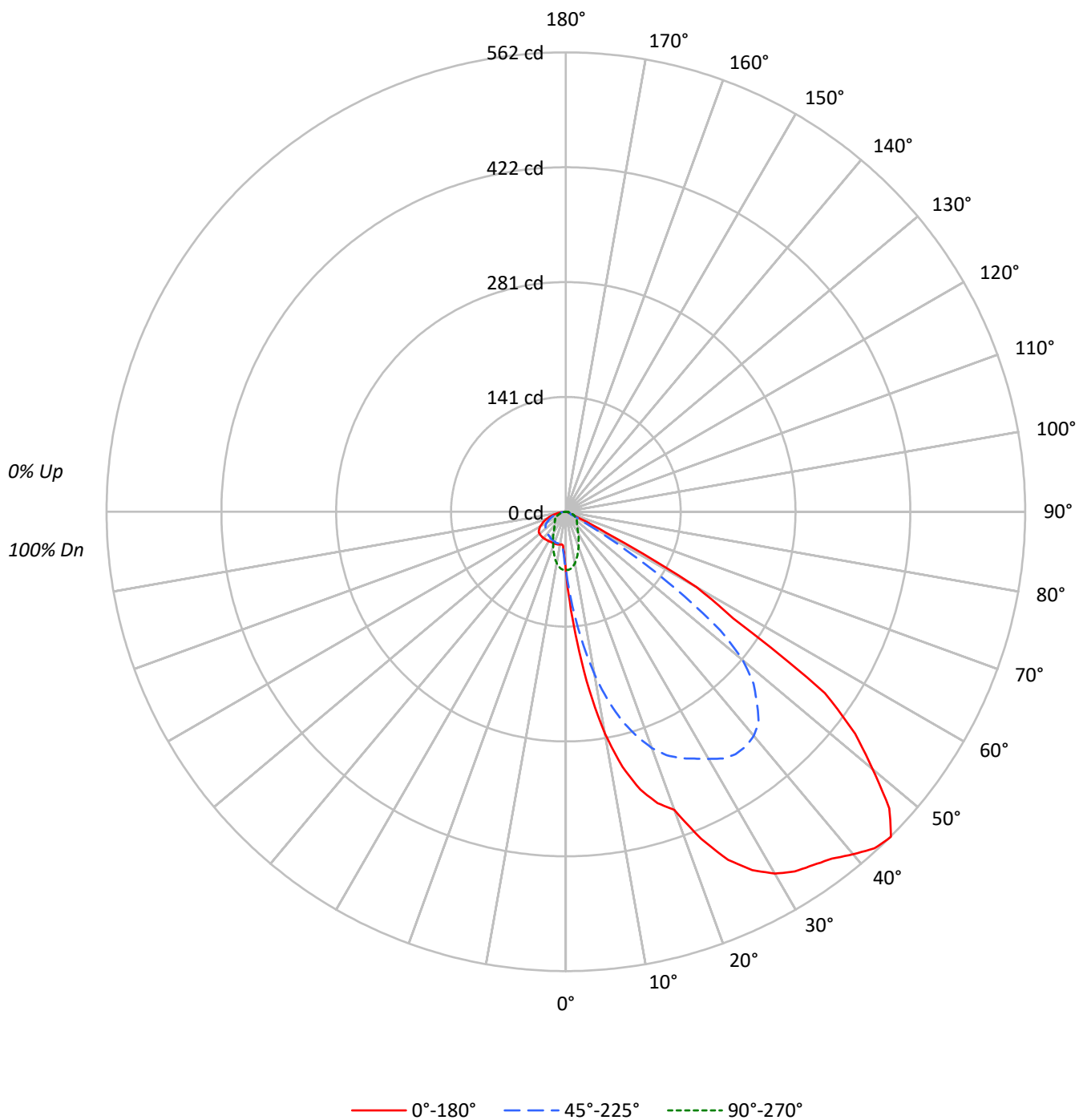
Lumens per Lamp: N/A
Luminaire Lumens: 486.0 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			0
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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87		
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75		
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64		
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	54		
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41		
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35		
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31		
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28		
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12193	12193	12193	12193	12193
5°	27747	22215	12067	7624	7123
10°	48074	35273	11192	6960	7118
15°	62761	47124	9771	7096	7346
20°	71093	56339	8357	7203	7643
25°	89294	63203	7012	7278	7829
30°	101640	69424	5986	7418	8293
35°	110925	76151	5193	7548	8767
40°	122954	80441	4789	7846	9487
45°	137002	80545	4725	8257	10278
50°	131206	75744	4689	8708	11173
55°	116171	49063	4804	9158	12070
60°	63619	10506	4857	9369	12538
65°	4564	2567	4727	9291	12633
70°	2216	2417	4381	8812	12186
75°	1930	2595	4192	8384	11312
80°	1884	2380	3868	7736	10612
85°	1976	2964	3754	6719	9485

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 137002 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.2	1.9
10°-20°	39.5	8.1
20°-30°	75.8	15.6
30°-40°	107.2	22.0
40°-50°	121.2	24.9
50°-60°	96.0	19.8
60°-70°	25.9	5.3
70°-80°	8.6	1.8
80°-90°	2.6	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°	124.5	25.6
0°-40°	231.7	47.7
0°-60°	448.9	92.4
0°-90°	486.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	486.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	71	71	71	71	71	
5°	160	128	70	44	41	19
15°	352	264	55	40	41	99
25°	470	333	37	38	41	215
35°	528	362	25	36	42	332
45°	562	331	19	34	42	421
55°	387	163	16	30	40	314
65°	11	6	12	23	31	40
75°	3	4	6	13	17	3
85°	1	2	2	3	5	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°	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
2.5°	110.1	110.1	109.6	107.6	106.7	104.2	102.3	97.0	83.9	71.3	61.1
5°	160.5	162.9	159.5	159.0	156.1	151.8	148.9	128.5	97.0	69.8	52.4
7.5°	220.1	221.1	220.1	215.3	210.9	203.7	196.9	164.9	110.1	67.4	46.1
10°	274.9	273.5	270.6	267.2	260.9	253.1	241.5	201.7	122.7	64.0	42.2
12.5°	319.5	319.1	315.7	312.3	304.5	294.3	282.7	235.2	133.3	59.6	40.2
15°	352.0	352.0	348.6	344.8	337.5	329.2	316.1	264.3	142.1	54.8	38.3
17.5°	373.8	372.9	370.5	367.5	361.7	353.5	343.3	287.5	147.9	49.9	37.8
20°	387.9	387.4	385.5	381.1	376.3	370.0	360.8	307.4	150.3	45.6	37.3
22.5°	433.0	429.1	421.8	412.6	401.0	386.0	373.4	322.4	149.3	40.7	36.4
25°	469.9	468.4	460.6	449.5	434.0	414.6	393.7	332.6	144.5	36.9	35.4
27.5°	494.1	491.7	484.4	472.3	455.8	436.9	417.5	340.4	137.7	33.5	33.9
30°	511.1	509.6	502.3	488.8	471.8	450.9	431.1	349.1	128.5	30.1	32.5
32.5°	521.7	520.3	513.0	500.9	484.4	462.6	439.8	357.8	117.3	27.2	31.0
35°	527.6	526.1	517.9	507.2	491.7	470.3	446.1	362.2	103.8	24.7	29.6
37.5°	534.8	531.9	520.8	507.7	492.2	472.3	448.0	361.7	90.2	22.8	28.6
40°	546.9	539.2	523.2	505.7	489.7	469.9	446.6	357.8	75.2	21.3	27.6
42.5°	558.6	547.4	523.7	502.8	484.9	465.5	441.2	349.1	58.7	20.4	27.2
45°	562.5	546.0	516.9	496.0	479.1	459.2	434.0	330.7	39.8	19.4	26.2
47.5°	536.8	524.6	500.4	484.9	468.9	449.5	423.3	311.3	22.8	18.4	25.2
50°	489.7	482.0	468.4	458.7	450.0	436.4	410.7	282.7	13.6	17.5	24.2
52.5°	446.1	443.7	434.0	426.2	421.4	415.1	391.8	238.6	11.2	17.0	23.3
55°	386.9	379.2	376.8	373.8	384.0	383.5	352.0	163.4	10.7	16.0	22.3
57.5°	242.9	246.3	258.9	282.2	309.8	325.8	324.9	87.3	10.2	15.0	20.8
60°	184.7	184.3	188.1	197.8	218.2	241.0	262.3	30.5	9.7	14.1	19.9
62.5°	55.3	56.7	68.4	100.4	120.3	148.4	135.3	7.3	9.2	12.6	17.9
65°	11.2	11.6	11.6	13.1	16.0	24.2	29.6	6.3	8.7	11.6	16.5
67.5°	4.8	4.8	4.8	5.3	5.3	6.3	5.3	5.8	7.8	10.2	14.5
70°	4.4	4.4	4.4	4.4	4.4	4.4	4.8	4.8	6.8	8.7	12.6
72.5°	3.4	3.4	3.4	3.9	3.9	3.9	3.9	4.4	5.8	7.3	10.7
75°	2.9	2.9	2.9	2.9	3.4	3.4	3.4	3.9	4.8	6.3	8.7
77.5°	2.4	2.4	2.4	2.4	2.4	2.9	2.9	2.9	3.9	4.8	7.3
80°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.4	2.9	3.9	5.3
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.9	2.4	2.9	3.9
85°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.9	2.4
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.5
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):

	135°	157.5°	180°
0°	70.8	70.8	70.8
2.5°	53.8	50.9	49.5
5°	44.1	41.7	41.2
7.5°	40.7	40.2	40.2
10°	39.8	40.2	40.7
12.5°	39.8	40.7	41.2
15°	39.8	40.7	41.2
17.5°	39.8	40.7	41.2
20°	39.3	40.7	41.7
22.5°	38.8	40.7	41.2
25°	38.3	40.7	41.2
27.5°	37.8	40.2	41.2
30°	37.3	40.2	41.7
32.5°	36.4	40.2	41.7
35°	35.9	40.2	41.7
37.5°	35.4	40.2	42.2
40°	34.9	40.2	42.2
42.5°	34.4	40.2	42.2
45°	33.9	39.8	42.2
47.5°	33.0	39.8	42.2
50°	32.5	39.3	41.7
52.5°	31.5	38.8	41.7
55°	30.5	37.8	40.2
57.5°	29.1	36.4	38.3
60°	27.2	34.4	36.4
62.5°	24.7	32.0	33.5
65°	22.8	29.1	31.0
67.5°	19.9	25.7	27.6
70°	17.5	22.3	24.2
72.5°	15.0	18.9	20.8
75°	12.6	15.5	17.0
77.5°	9.7	12.6	13.6
80°	7.8	9.7	10.7
82.5°	5.3	6.8	7.3
85°	3.4	4.4	4.8
87.5°	1.5	1.9	1.9
90°	0.0	0.0	0.0

(END OF REPORT)