

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: P1306614

Luminaire Tested: P3SQAS05R509027DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R509027DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

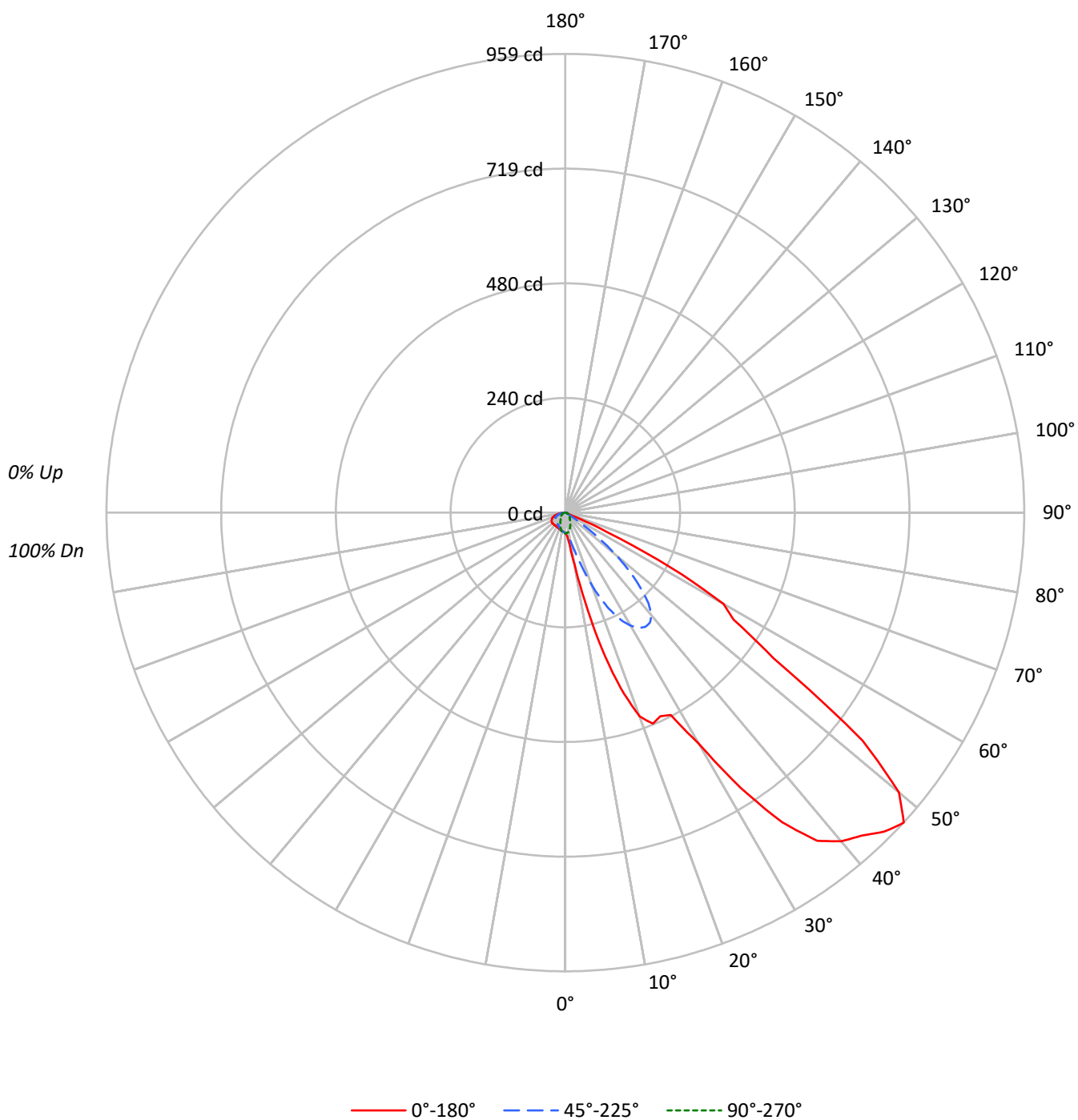
Lumens per Lamp: N/A
Luminaire Lumens: 541.0 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	100	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86	86	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73	73	73
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61	61	61
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51	51	51
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43	43	43
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37	37	37
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31	31	31
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27	27	27
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	23	23	23
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	20	20	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7406	7406	7406	7406	7406
5°	8800	8246	7347	7036	6950
10°	18957	10213	7030	6785	6873
15°	52491	16742	6330	6490	6740
20°	82987	29379	5480	6250	6598
25°	89237	43155	4713	6043	6651
30°	110768	54171	4097	5946	6881
35°	166220	61307	3532	5992	7274
40°	201597	63040	3147	6205	7666
45°	229677	54070	3069	6600	8427
50°	243764	37323	3135	7127	9378
55°	159258	15013	3093	7717	10389
60°	131337	2583	3066	8370	11436
65°	39610	1345	2853	8965	12551
70°	1662	1410	2820	9165	13646
75°	1530	1530	2795	9316	14905
80°	1389	1389	2777	9224	15274
85°	988	1778	3754	9287	14820

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 244546 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.5	0.8
10°-20°	25.6	4.7
20°-30°	65.9	12.2
30°-40°	118.3	21.9
40°-50°	158.0	29.2
50°-60°	120.3	22.2
60°-70°	36.5	6.8
70°-80°	8.7	1.6
80°-90°	3.1	0.6
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°	96.0	17.7
0°-40°	214.2	39.6
0°-60°	492.6	91.1
0°-90°	541.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	541.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	43	43	43	43	43	
5°	51	48	42	41	40	7
15°	294	94	36	36	38	87
25°	470	227	25	32	35	224
35°	791	292	17	28	35	485
45°	943	222	13	27	35	721
55°	530	50	10	26	35	528
65°	97	3	7	22	31	134
75°	2	2	4	14	22	2
85°	0	1	2	5	8	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
2.5°	45.8	45.8	45.8	45.8	45.8	45.8	45.3	45.3	45.3	44.4	43.5
5°	50.9	51.4	50.9	50.9	50.0	50.0	49.1	49.1	47.7	44.9	42.5
7.5°	66.8	66.4	65.9	64.0	62.6	59.3	57.9	55.6	51.4	44.9	41.6
10°	108.4	105.6	103.7	99.5	90.7	85.0	77.6	70.1	58.4	44.9	40.2
12.5°	188.3	187.8	182.2	168.2	155.6	138.3	120.1	101.9	72.0	43.9	38.3
15°	294.4	290.2	282.2	265.9	243.5	216.4	183.6	151.4	93.9	42.5	35.5
17.5°	385.0	379.9	373.8	357.5	331.8	297.7	258.4	214.0	123.8	40.7	32.7
20°	452.8	449.5	444.4	431.3	407.0	376.2	332.2	278.5	160.3	38.3	29.9
22.5°	477.6	477.1	478.0	473.4	461.2	436.9	394.9	338.8	196.3	35.5	27.1
25°	469.6	469.2	475.2	481.3	484.1	474.3	442.0	387.4	227.1	33.2	24.8
27.5°	477.1	475.7	472.9	473.8	481.8	487.4	472.4	424.8	253.7	29.9	22.4
30°	557.0	549.1	536.4	514.9	499.1	497.7	491.1	454.2	272.4	26.6	20.6
32.5°	681.8	672.0	649.1	609.3	571.5	542.5	522.0	479.0	285.5	23.4	18.2
35°	790.6	783.6	757.0	717.7	663.5	609.3	572.0	515.4	291.6	20.6	16.8
37.5°	864.5	861.7	835.5	793.4	738.3	674.3	624.8	552.8	290.2	17.3	15.4
40°	896.7	888.3	866.3	830.8	775.2	717.7	665.4	576.6	280.4	14.0	14.0
42.5°	915.9	906.5	882.7	849.1	794.4	733.2	670.1	566.3	257.0	11.2	13.6
45°	943.0	933.2	901.9	865.9	810.7	739.7	651.9	529.9	222.0	8.4	12.6
47.5°	959.3	952.8	929.4	893.4	826.6	730.4	609.8	495.8	183.2	6.5	12.1
50°	909.8	903.3	886.0	861.2	816.3	699.1	572.9	440.6	139.3	5.1	11.7
52.5°	783.2	788.8	792.0	799.1	766.3	629.0	517.7	396.7	93.9	4.2	10.7
55°	530.4	538.8	548.1	576.2	614.5	559.8	459.8	343.0	50.0	4.2	10.3
57.5°	416.8	414.0	411.2	409.3	439.2	461.7	404.2	274.3	21.5	4.2	9.3
60°	381.3	372.9	367.3	368.7	383.6	374.8	320.1	179.0	7.5	4.2	8.9
62.5°	250.0	256.5	269.2	290.6	280.4	240.7	186.0	71.0	3.7	4.2	7.9
65°	97.2	93.9	97.2	103.3	89.3	66.4	41.6	12.6	3.3	3.7	7.0
67.5°	13.1	11.7	8.9	5.6	5.1	4.7	3.7	3.3	3.3	3.7	6.5
70°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.8	2.8	3.3	5.6
72.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.3	4.7
75°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.8	4.2
77.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.3	3.3
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.9	2.8
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4	1.4	1.9	2.3
85°	0.5	0.9	0.5	0.9	0.9	0.9	0.9	0.9	0.9	1.4	1.9
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	1.4	1.4
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):

	112.5°	135°	157.5°	180°
0°	43.0	43.0	43.0	43.0
2.5°	42.5	41.6	41.6	41.6
5°	41.6	40.7	40.7	40.2
7.5°	40.2	39.7	39.7	39.7
10°	39.3	38.8	39.3	39.3
12.5°	37.4	37.8	38.3	38.3
15°	35.5	36.4	37.4	37.8
17.5°	33.6	35.5	36.4	36.9
20°	31.8	34.1	35.5	36.0
22.5°	30.4	32.7	34.6	35.5
25°	28.5	31.8	34.1	35.0
27.5°	26.6	30.4	33.2	34.6
30°	25.2	29.9	33.2	34.6
32.5°	23.8	29.0	32.7	34.1
35°	22.9	28.5	32.7	34.6
37.5°	22.0	28.0	32.7	34.1
40°	21.5	27.6	32.7	34.1
42.5°	21.0	27.6	32.7	34.6
45°	20.1	27.1	32.7	34.6
47.5°	19.6	27.1	32.7	34.6
50°	19.2	26.6	32.7	35.0
52.5°	18.7	26.2	32.7	35.0
55°	17.8	25.7	32.2	34.6
57.5°	17.3	25.2	31.8	33.6
60°	16.4	24.3	30.8	33.2
62.5°	15.4	23.4	29.9	31.8
65°	14.0	22.0	28.5	30.8
67.5°	12.6	20.1	27.1	29.4
70°	11.2	18.2	25.2	27.1
72.5°	9.8	16.4	23.4	24.8
75°	8.4	14.0	20.6	22.4
77.5°	7.0	12.1	17.3	18.7
80°	5.1	9.3	14.0	15.4
82.5°	4.2	7.0	10.3	11.2
85°	2.8	4.7	6.5	7.5
87.5°	1.4	2.3	3.3	3.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)