

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: P1313160

Luminaire Tested: P3SQAS05R659730DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313160
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R659730DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R65 optic, 3000K CCT AND, 97CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

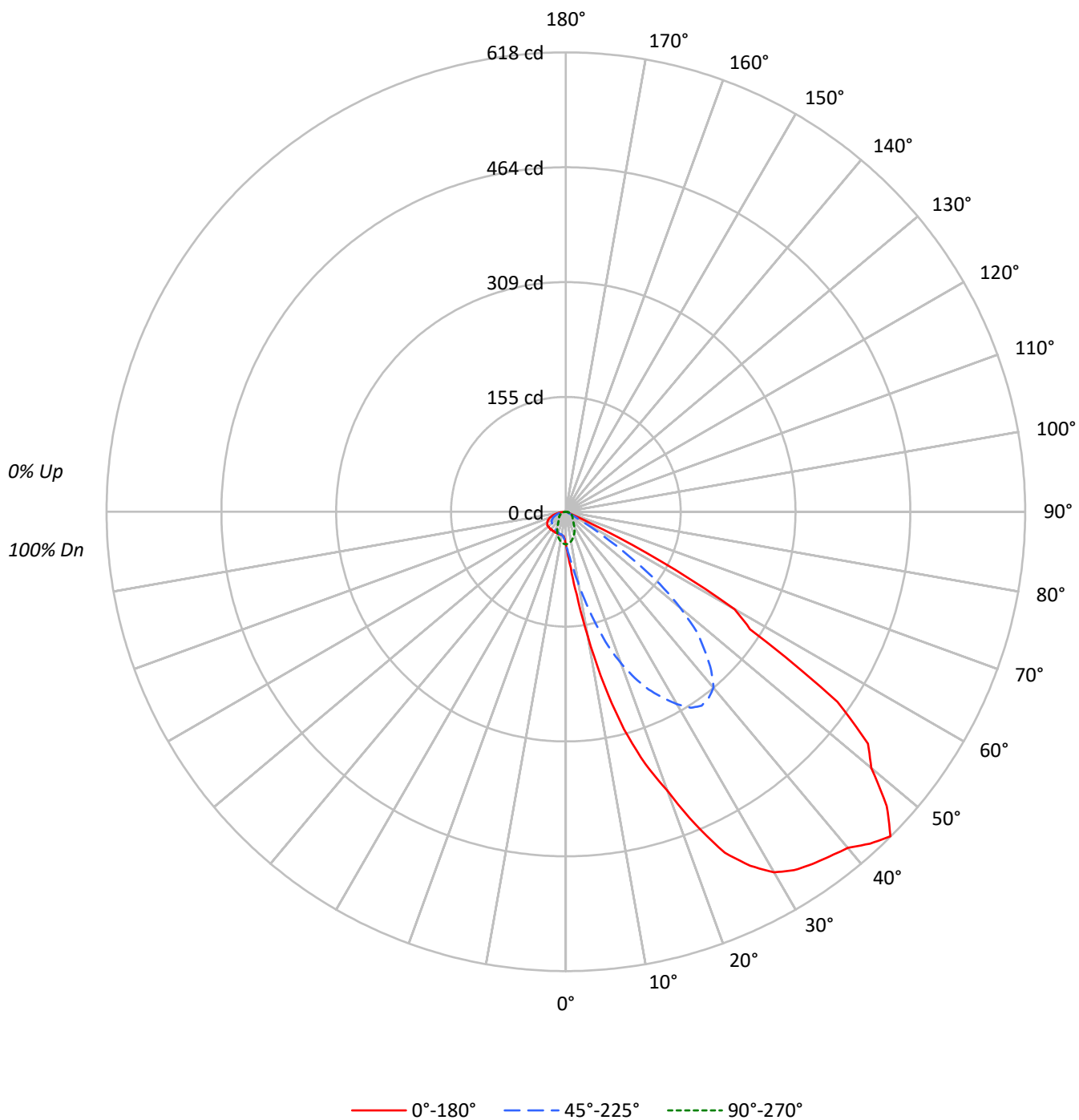
Lumens per Lamp: N/A
Luminaire Lumens: 448.0 lumens
Efficiency: N/A
Efficacy: 62.2 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94		96	94	91		92	90	89	87
2	101	93	87	82	98	92	86	81	88	83	79		85	81	77		82	79	76	74
3	92	82	75	69	90	81	74	68	78	72	67		75	70	66		73	68	65	62
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64	59	55	53
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	71	57	49	42	69	57	48	42	55	47	42		53	46	41		51	46	41	39
7	65	52	43	37	63	51	42	36	49	42	36		48	41	36		46	40	36	34
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	42	34	28	54	41	33	28	40	33	28		39	33	28		38	32	28	26
10	52	38	30	25	50	38	30	25	37	30	25		36	29	25		35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7509	7509	7509	7509	7509
5°	13122	10719	7382	5982	5740
10°	29695	17278	7065	5491	5579
15°	53989	27797	6561	5527	5688
20°	73182	39679	5920	5517	5755
25°	96191	50110	5207	5378	5891
30°	111385	59401	4474	5369	6165
35°	121648	66963	3784	5487	6518
40°	132689	69470	3327	5755	6969
45°	150422	64446	3166	6138	7550
50°	143691	53801	3135	6511	8306
55°	133916	30206	3243	7026	9158
60°	90210	6510	3238	7440	9886
65°	13896	1630	3097	7702	10799
70°	1561	1561	2921	7906	11531
75°	1464	1464	2662	7785	11645
80°	1289	1785	2678	7141	11604
85°	790	1778	2569	7114	10671

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 150422 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.3	1.2
10°-20°	28.5	6.4
20°-30°	66.9	14.9
30°-40°	101.1	22.6
40°-50°	116.2	25.9
50°-60°	92.3	20.6
60°-70°	27.6	6.2
70°-80°	7.5	1.7
80°-90°	2.5	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°	100.7	22.5
0°-40°	201.8	45.1
0°-60°	410.3	91.6
0°-90°	448.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	448.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	44	44	44	44	44	
5°	76	62	43	35	33	10
15°	303	156	37	31	32	87
25°	506	264	27	28	31	231
35°	579	318	18	26	31	363
45°	618	265	13	25	31	459
55°	446	101	11	23	30	367
65°	34	4	8	19	26	77
75°	2	2	4	12	18	2
85°	0	1	1	4	5	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
2.5°	55.3	55.7	55.3	55.3	54.8	54.4	51.2	47.6	43.6	40.4	38.2
5°	75.9	76.4	75.0	75.0	74.1	72.8	62.0	51.7	42.7	37.7	34.6
7.5°	112.3	114.1	111.8	109.2	104.2	103.3	77.3	55.7	41.8	35.0	32.3
10°	169.8	168.4	166.2	160.8	152.3	148.2	98.8	59.7	40.4	33.2	31.4
12.5°	239.4	235.8	233.1	223.2	211.6	204.8	125.8	63.3	38.6	31.4	31.0
15°	302.8	300.1	293.8	284.3	270.0	264.6	155.9	65.6	36.8	30.1	31.0
17.5°	356.2	353.5	349.9	340.5	325.7	317.6	189.6	66.9	34.6	29.2	30.5
20°	399.3	397.5	392.6	385.0	370.1	362.5	216.5	66.9	32.3	28.3	30.1
22.5°	455.0	451.0	444.7	433.5	415.1	403.4	242.1	65.6	30.1	27.4	29.2
25°	506.2	503.5	495.5	482.0	462.2	450.5	263.7	62.9	27.4	26.1	28.3
27.5°	536.8	535.0	527.4	513.4	491.4	482.4	281.6	58.8	24.7	24.7	27.9
30°	560.1	556.6	548.9	535.4	513.0	502.2	298.7	53.9	22.5	23.4	27.0
32.5°	571.8	570.5	563.7	552.1	530.0	517.9	312.6	47.6	19.8	22.5	26.5
35°	578.6	577.2	571.8	560.6	539.9	528.3	318.5	41.8	18.0	21.6	26.1
37.5°	584.0	582.6	575.9	564.6	544.0	531.8	315.8	35.5	16.2	20.7	25.6
40°	590.2	585.3	575.0	563.7	544.9	533.2	309.0	29.6	14.8	20.2	25.6
42.5°	605.5	588.4	572.3	561.9	544.0	530.5	289.7	23.4	13.5	19.3	25.2
45°	617.6	587.5	566.9	558.8	540.4	525.1	264.6	17.1	13.0	18.9	25.2
47.5°	585.7	567.3	557.9	553.4	533.6	517.0	238.5	11.7	12.6	18.4	24.7
50°	536.3	534.1	530.5	530.9	513.0	499.5	200.8	8.1	11.7	18.0	24.3
52.5°	512.5	509.8	503.5	499.1	481.1	469.4	159.0	6.3	11.2	17.5	23.8
55°	446.0	447.8	441.1	443.8	438.4	432.6	100.6	5.8	10.8	16.6	23.4
57.5°	293.8	302.8	318.5	337.3	354.4	366.1	54.4	5.8	9.9	16.2	22.5
60°	261.9	259.6	259.2	262.8	270.4	276.7	18.9	5.4	9.4	14.8	21.6
62.5°	143.3	142.4	155.9	178.8	192.3	193.6	5.4	5.4	8.5	13.9	20.2
65°	34.1	35.5	39.5	49.4	58.4	64.2	4.0	4.9	7.6	13.0	18.9
67.5°	5.4	5.8	5.8	7.2	8.1	8.1	3.6	4.5	6.7	11.7	17.5
70°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.0	5.8	10.3	15.7
72.5°	2.7	2.7	2.7	2.7	2.7	2.7	3.1	3.6	4.9	9.0	13.5
75°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.1	4.0	7.2	11.7
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	2.2	2.7	3.6	5.8	9.4
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.8	2.2	2.7	4.5	7.2
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.8	2.2	3.6	5.4
85°	0.4	0.4	0.4	0.4	0.9	0.9	0.9	1.3	1.3	2.2	3.6
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9	0.9	1.3	1.8
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):

	157.5°	180°
0°	43.6	43.6
2.5°	36.8	36.4
5°	33.2	33.2
7.5°	31.9	31.9
10°	31.4	31.9
12.5°	31.4	31.9
15°	31.4	31.9
17.5°	31.4	31.9
20°	31.0	31.4
22.5°	30.5	31.0
25°	30.1	31.0
27.5°	29.6	31.0
30°	29.6	31.0
32.5°	29.6	31.0
35°	29.2	31.0
37.5°	29.2	31.0
40°	29.2	31.0
42.5°	29.2	31.0
45°	29.2	31.0
47.5°	29.2	31.0
50°	29.2	31.0
52.5°	28.7	31.0
55°	28.7	30.5
57.5°	27.9	29.6
60°	27.0	28.7
62.5°	26.1	27.9
65°	24.7	26.5
67.5°	23.4	24.7
70°	21.1	22.9
72.5°	18.9	20.2
75°	16.2	17.5
77.5°	13.5	14.8
80°	10.8	11.7
82.5°	7.6	8.5
85°	4.9	5.4
87.5°	2.2	2.2
90°	0.0	0.0

(END OF REPORT)