

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: P1305506

Luminaire Tested: P3SQAS02R709024DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1305506
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: P3SQAS02R709024DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 2400K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

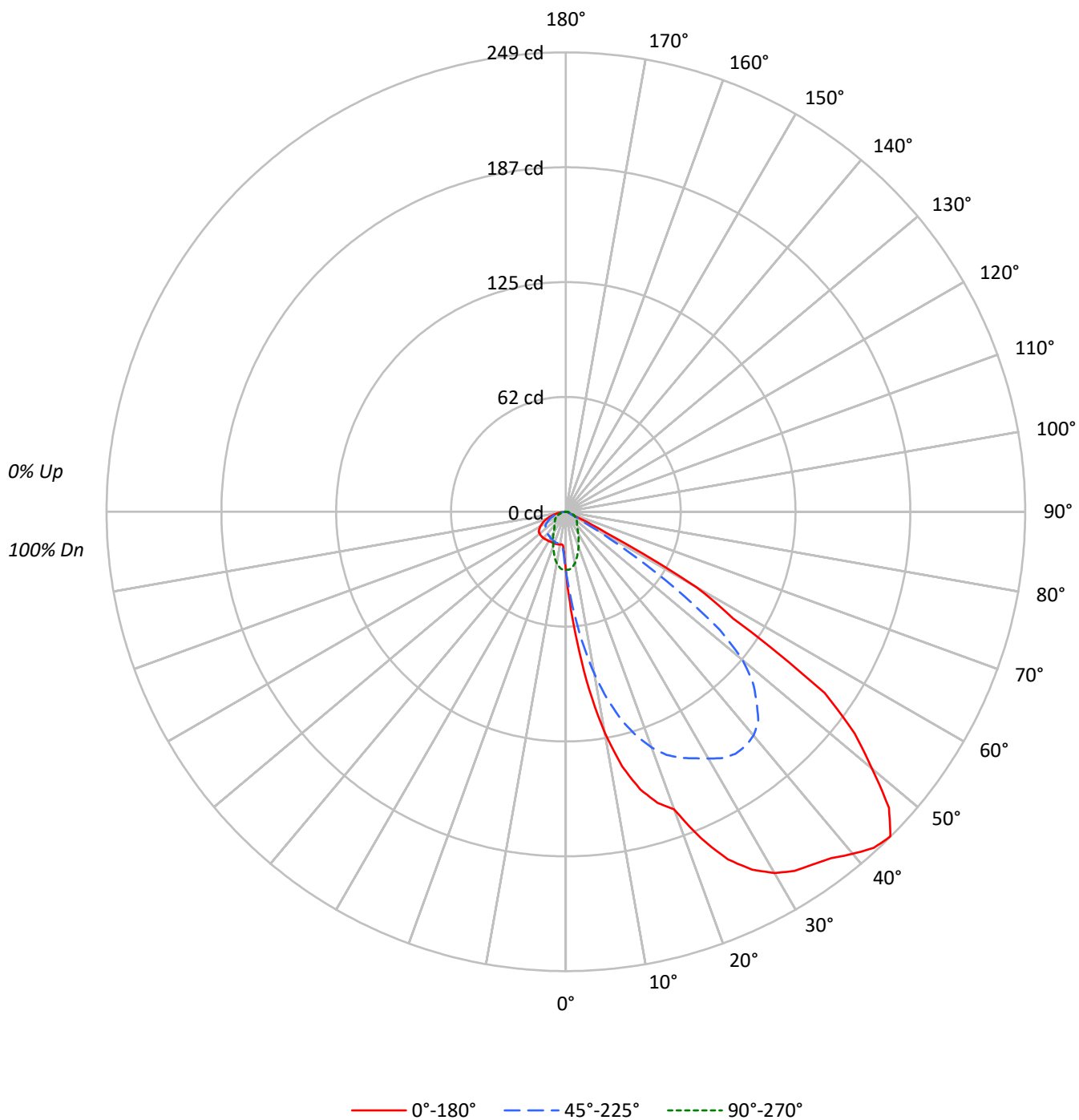
Lumens per Lamp: N/A
Luminaire Lumens: 215.0 lumens
Efficiency: N/A
Efficacy: 59.7 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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	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	55	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°	5391	5391	5391	5391	5391
5°	12275	9820	5342	3371	3146
10°	21265	15599	4949	3078	3148
15°	27761	20843	4315	3138	3245
20°	31450	24925	3702	3189	3372
25°	39507	27972	3097	3211	3458
30°	44964	30705	2645	3281	3659
35°	49071	33681	2292	3343	3869
40°	54407	35589	2113	3462	4204
45°	60598	35633	2095	3653	4555
50°	58061	33518	2063	3858	4930
55°	51405	21709	2132	4054	5345
60°	28141	4650	2136	4133	5546
65°	1997	1141	2078	4116	5583
70°	957	1057	1964	3877	5388
75°	865	1131	1863	3726	4991
80°	893	1091	1686	3372	4661
85°	790	1186	1778	2964	4150

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 60598 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.1	1.9
10°-20°	17.5	8.1
20°-30°	33.5	15.6
30°-40°	47.4	22.1
40°-50°	53.6	24.9
50°-60°	42.5	19.8
60°-70°	11.4	5.3
70°-80°	3.8	1.8
80°-90°	1.2	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°	55.1	25.6
0°-40°	102.5	47.7
0°-60°	198.6	92.4
0°-90°	215.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	215.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	31	31	31	31	31	
5°	71	57	31	20	18	8
15°	156	117	24	18	18	44
25°	208	147	16	17	18	95
35°	233	160	11	16	18	147
45°	249	146	9	15	19	186
55°	171	72	7	14	18	139
65°	5	3	5	10	14	18
75°	1	2	3	6	8	1
85°	0	1	1	2	2	0
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°	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
2.5°	48.7	48.7	48.5	47.6	47.2	46.1	45.3	42.9	37.1	31.5	27.0
5°	71.0	72.1	70.6	70.4	69.1	67.1	65.9	56.8	42.9	30.9	23.2
7.5°	97.4	97.8	97.4	95.2	93.3	90.1	87.1	72.9	48.7	29.8	20.4
10°	121.6	121.0	119.7	118.2	115.4	112.0	106.8	89.2	54.3	28.3	18.7
12.5°	141.4	141.1	139.6	138.1	134.7	130.2	125.1	104.0	59.0	26.4	17.8
15°	155.7	155.7	154.2	152.5	149.3	145.6	139.9	116.9	62.9	24.2	16.9
17.5°	165.4	165.0	163.9	162.6	160.0	156.4	151.9	127.2	65.4	22.1	16.7
20°	171.6	171.4	170.5	168.6	166.5	163.7	159.6	136.0	66.5	20.2	16.5
22.5°	191.6	189.8	186.6	182.5	177.4	170.7	165.2	142.6	66.1	18.0	16.1
25°	207.9	207.2	203.8	198.8	192.0	183.4	174.2	147.2	63.9	16.3	15.7
27.5°	218.6	217.5	214.3	208.9	201.6	193.3	184.7	150.6	60.9	14.8	15.0
30°	226.1	225.4	222.2	216.2	208.7	199.5	190.7	154.4	56.8	13.3	14.4
32.5°	230.8	230.2	226.9	221.6	214.3	204.6	194.6	158.3	51.9	12.0	13.7
35°	233.4	232.7	229.1	224.4	217.5	208.1	197.3	160.2	45.9	10.9	13.1
37.5°	236.6	235.3	230.4	224.6	217.7	208.9	198.2	160.0	39.9	10.1	12.7
40°	242.0	238.5	231.5	223.7	216.7	207.9	197.6	158.3	33.2	9.4	12.2
42.5°	247.1	242.2	231.7	222.4	214.5	205.9	195.2	154.4	26.0	9.0	12.0
45°	248.8	241.5	228.7	219.4	211.9	203.1	192.0	146.3	17.6	8.6	11.6
47.5°	237.5	232.1	221.4	214.5	207.4	198.8	187.3	137.7	10.1	8.2	11.2
50°	216.7	213.2	207.2	202.9	199.1	193.1	181.7	125.1	6.0	7.7	10.7
52.5°	197.3	196.3	192.0	188.6	186.4	183.6	173.3	105.5	4.9	7.5	10.3
55°	171.2	167.7	166.7	165.4	169.9	169.7	155.7	72.3	4.7	7.1	9.9
57.5°	107.5	109.0	114.5	124.8	137.1	144.1	143.7	38.6	4.5	6.6	9.2
60°	81.7	81.5	83.2	87.5	96.5	106.6	116.0	13.5	4.3	6.2	8.8
62.5°	24.5	25.1	30.2	44.4	53.2	65.6	59.8	3.2	4.1	5.6	7.9
65°	4.9	5.1	5.1	5.8	7.1	10.7	13.1	2.8	3.9	5.1	7.3
67.5°	2.1	2.1	2.1	2.4	2.4	2.8	2.4	2.6	3.4	4.5	6.4
70°	1.9	1.9	1.9	1.9	1.9	1.9	2.1	2.1	3.0	3.9	5.6
72.5°	1.5	1.5	1.5	1.7	1.7	1.7	1.7	1.9	2.6	3.2	4.7
75°	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.7	2.1	2.8	3.9
77.5°	1.1	1.1	1.1	1.1	1.1	1.3	1.3	1.3	1.7	2.1	3.2
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.3	1.7	2.4
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.9	1.1	1.3	1.7
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.9	1.1
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.6
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°	31.3	31.3	31.3
2.5°	23.8	22.5	21.9
5°	19.5	18.4	18.2
7.5°	18.0	17.8	17.8
10°	17.6	17.8	18.0
12.5°	17.6	18.0	18.2
15°	17.6	18.0	18.2
17.5°	17.6	18.0	18.2
20°	17.4	18.0	18.4
22.5°	17.2	18.0	18.2
25°	16.9	18.0	18.2
27.5°	16.7	17.8	18.2
30°	16.5	17.8	18.4
32.5°	16.1	17.8	18.4
35°	15.9	17.8	18.4
37.5°	15.7	17.8	18.7
40°	15.4	17.8	18.7
42.5°	15.2	17.8	18.7
45°	15.0	17.6	18.7
47.5°	14.6	17.6	18.7
50°	14.4	17.4	18.4
52.5°	13.9	17.2	18.4
55°	13.5	16.7	17.8
57.5°	12.9	16.1	16.9
60°	12.0	15.2	16.1
62.5°	10.9	14.2	14.8
65°	10.1	12.9	13.7
67.5°	8.8	11.4	12.2
70°	7.7	9.9	10.7
72.5°	6.6	8.4	9.2
75°	5.6	6.9	7.5
77.5°	4.3	5.6	6.0
80°	3.4	4.3	4.7
82.5°	2.4	3.0	3.2
85°	1.5	1.9	2.1
87.5°	0.6	0.9	0.9
90°	0.0	0.0	0.0

(END OF REPORT)