

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: P1308713

Luminaire Tested: P3SQAS02R709035DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308713
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: P3SQAS02R709035DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

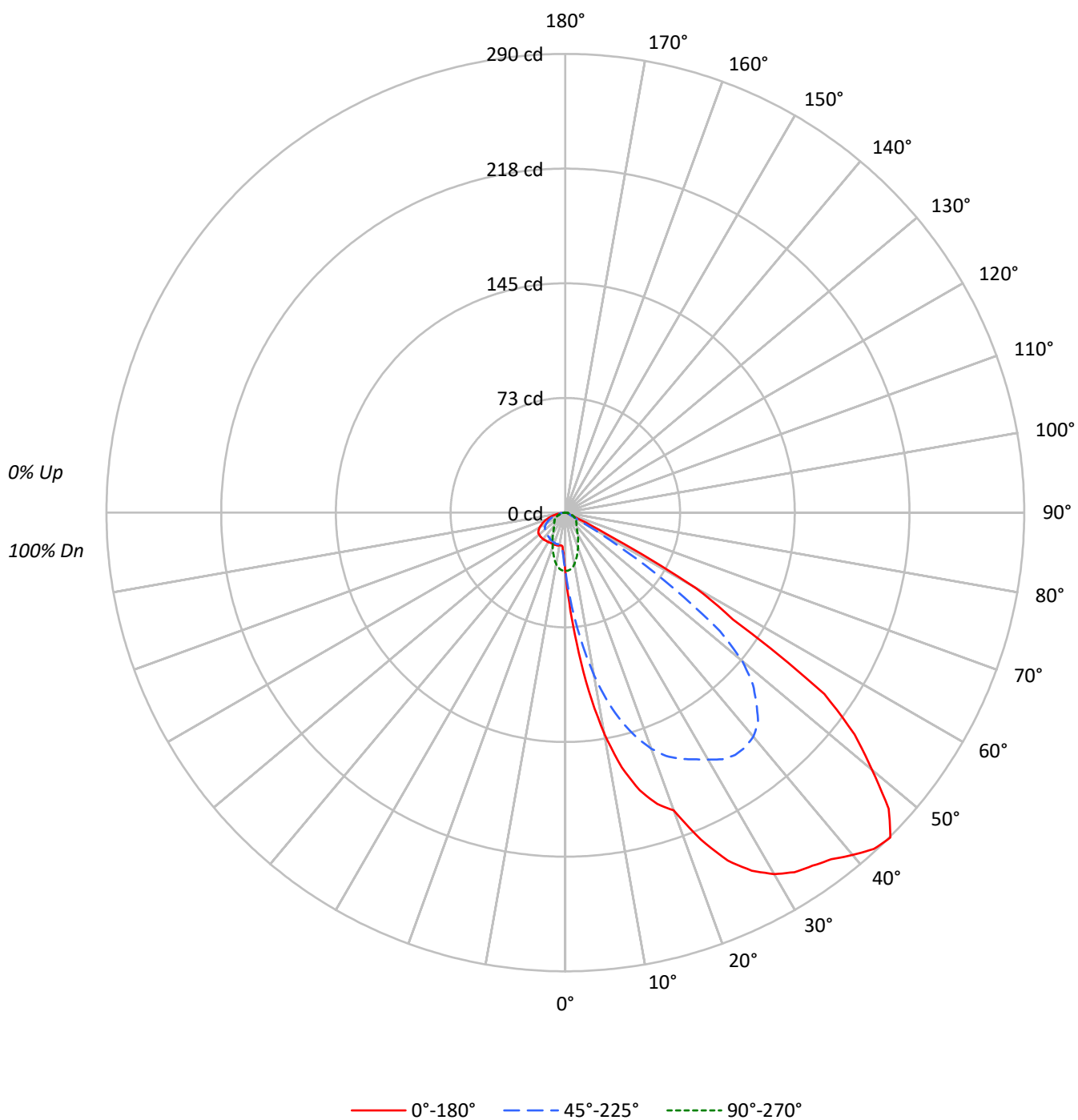
Lumens per Lamp: N/A
Luminaire Lumens: 251.0 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	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	54	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°	6303	6303	6303	6303	6303
5°	14332	11479	6241	3942	3682
10°	24833	18222	5789	3585	3672
15°	32415	24338	5046	3655	3798
20°	36710	29104	4307	3720	3940
25°	46119	32647	3611	3763	4048
30°	52481	35855	3082	3838	4276
35°	57292	39337	2691	3890	4520
40°	63512	41547	2473	4047	4901
45°	70754	41600	2436	4262	5310
50°	67760	39118	2411	4501	5761
55°	59992	25342	2492	4744	6245
60°	32860	5442	2514	4822	6476
65°	2364	1345	2445	4809	6520
70°	1158	1259	2266	4532	6294
75°	998	1331	2196	4325	5856
80°	992	1289	1984	3967	5455
85°	988	1581	1976	3557	4940

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 70754 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.8	1.9
10°-20°	20.4	8.1
20°-30°	39.1	15.6
30°-40°	55.3	22.0
40°-50°	62.6	24.9
50°-60°	49.6	19.8
60°-70°	13.4	5.3
70°-80°	4.4	1.8
80°-90°	1.4	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°	64.3	25.6
0°-40°	119.6	47.7
0°-60°	231.8	92.3
0°-90°	251.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	251.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	37	37	37	37	37	
5°	83	66	36	23	21	10
15°	182	136	28	20	21	51
25°	243	172	19	20	21	111
35°	272	187	13	18	22	172
45°	290	171	10	18	22	217
55°	200	84	8	16	21	162
65°	6	3	6	12	16	21
75°	2	2	3	6	9	2
85°	0	1	1	2	2	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°	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6
2.5°	56.8	56.8	56.6	55.6	55.1	53.8	52.8	50.1	43.3	36.8	31.6
5°	82.9	84.1	82.4	82.1	80.6	78.4	76.9	66.4	50.1	36.1	27.0
7.5°	113.7	114.2	113.7	111.2	108.9	105.2	101.7	85.1	56.8	34.8	23.8
10°	142.0	141.2	139.7	138.0	134.7	130.7	124.7	104.2	63.4	33.1	21.8
12.5°	165.0	164.8	163.0	161.3	157.3	152.0	146.0	121.5	68.9	30.8	20.8
15°	181.8	181.8	180.1	178.1	174.3	170.0	163.3	136.5	73.4	28.3	19.8
17.5°	193.1	192.6	191.3	189.8	186.8	182.6	177.3	148.5	76.4	25.8	19.5
20°	200.3	200.1	199.1	196.8	194.3	191.1	186.3	158.8	77.6	23.5	19.3
22.5°	223.6	221.6	217.9	213.1	207.1	199.3	192.8	166.5	77.1	21.0	18.8
25°	242.7	241.9	237.9	232.1	224.1	214.1	203.3	171.8	74.6	19.0	18.3
27.5°	255.2	253.9	250.2	243.9	235.4	225.6	215.6	175.8	71.1	17.3	17.5
30°	263.9	263.2	259.4	252.4	243.7	232.9	222.6	180.3	66.4	15.5	16.8
32.5°	269.5	268.7	264.9	258.7	250.2	238.9	227.1	184.8	60.6	14.0	16.0
35°	272.5	271.7	267.5	261.9	253.9	242.9	230.4	187.1	53.6	12.8	15.3
37.5°	276.2	274.7	269.0	262.2	254.2	243.9	231.4	186.8	46.6	11.8	14.8
40°	282.5	278.5	270.2	261.2	252.9	242.7	230.6	184.8	38.8	11.0	14.3
42.5°	288.5	282.7	270.5	259.7	250.4	240.4	227.9	180.3	30.3	10.5	14.0
45°	290.5	282.0	267.0	256.2	247.4	237.2	224.1	170.8	20.5	10.0	13.5
47.5°	277.2	271.0	258.4	250.4	242.2	232.1	218.6	160.8	11.8	9.5	13.0
50°	252.9	248.9	241.9	236.9	232.4	225.4	212.1	146.0	7.0	9.0	12.5
52.5°	230.4	229.1	224.1	220.1	217.6	214.4	202.3	123.2	5.8	8.8	12.0
55°	199.8	195.8	194.6	193.1	198.3	198.1	181.8	84.4	5.5	8.3	11.5
57.5°	125.5	127.2	133.7	145.7	160.0	168.3	167.8	45.1	5.3	7.8	10.8
60°	95.4	95.2	97.2	102.2	112.7	124.5	135.5	15.8	5.0	7.3	10.3
62.5°	28.5	29.3	35.3	51.8	62.1	76.6	69.9	3.8	4.8	6.5	9.3
65°	5.8	6.0	6.0	6.8	8.3	12.5	15.3	3.3	4.5	6.0	8.5
67.5°	2.5	2.5	2.5	2.8	2.8	3.3	2.8	3.0	4.0	5.3	7.5
70°	2.3	2.3	2.3	2.3	2.3	2.3	2.5	2.5	3.5	4.5	6.5
72.5°	1.8	1.8	1.8	2.0	2.0	2.0	2.0	2.3	3.0	3.8	5.5
75°	1.5	1.5	1.5	1.5	1.8	1.8	1.8	2.0	2.5	3.3	4.5
77.5°	1.3	1.3	1.3	1.3	1.3	1.5	1.5	1.5	2.0	2.5	3.8
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.5	2.0	2.8
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.3	1.5	2.0
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.8	0.8	1.0	1.3
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.8
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):

	135°	157.5°	180°
0°	36.6	36.6	36.6
2.5°	27.8	26.3	25.5
5°	22.8	21.5	21.3
7.5°	21.0	20.8	20.8
10°	20.5	20.8	21.0
12.5°	20.5	21.0	21.3
15°	20.5	21.0	21.3
17.5°	20.5	21.0	21.3
20°	20.3	21.0	21.5
22.5°	20.0	21.0	21.3
25°	19.8	21.0	21.3
27.5°	19.5	20.8	21.3
30°	19.3	20.8	21.5
32.5°	18.8	20.8	21.5
35°	18.5	20.8	21.5
37.5°	18.3	20.8	21.8
40°	18.0	20.8	21.8
42.5°	17.8	20.8	21.8
45°	17.5	20.5	21.8
47.5°	17.0	20.5	21.8
50°	16.8	20.3	21.5
52.5°	16.3	20.0	21.5
55°	15.8	19.5	20.8
57.5°	15.0	18.8	19.8
60°	14.0	17.8	18.8
62.5°	12.8	16.5	17.3
65°	11.8	15.0	16.0
67.5°	10.3	13.3	14.3
70°	9.0	11.5	12.5
72.5°	7.8	9.8	10.8
75°	6.5	8.0	8.8
77.5°	5.0	6.5	7.0
80°	4.0	5.0	5.5
82.5°	2.8	3.5	3.8
85°	1.8	2.3	2.5
87.5°	0.8	1.0	1.0
90°	0.0	0.0	0.0

(END OF REPORT)