

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: P1313711

Luminaire Tested: P3SQAS20R309730D010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313711
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R309730D010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R30 optic, 3000K CCT AND, 97CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

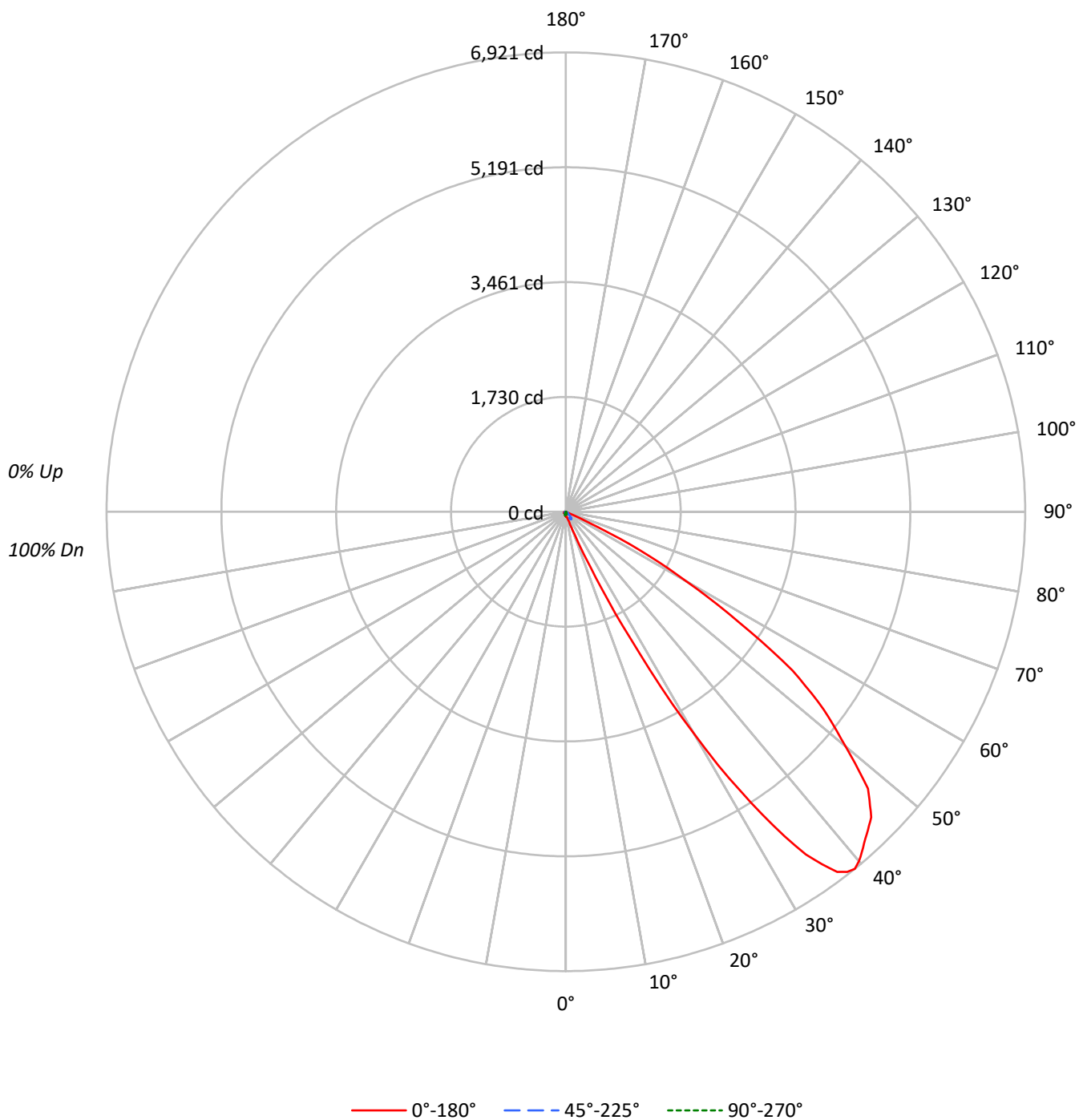
Lumens per Lamp: N/A
Luminaire Lumens: 1799.0 lumens
Efficiency: N/A
Efficacy: 62.5 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50		
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	42		
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35		
7	62	48	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29		
8	56	42	33	27	55	41	33	27	40	32	26	39	32	26	37	31	26	24		
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22	20		
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12004	12004	12004	12004	12004
5°	12845	12568	11790	10736	10477
10°	14043	12451	10335	9269	9006
15°	20540	12427	8647	7827	8113
20°	51665	13617	6671	6671	7496
25°	239871	16988	5188	6043	6917
30°	763644	23506	3918	5727	6940
35°	1325090	28677	3196	5424	7001
40°	1545395	28620	2383	5441	7149
45°	1584867	20289	2582	5894	7745
50°	1473861	11360	2036	6082	8922
55°	1252659	5915	2282	6816	9999
60°	723438	1550	2618	7302	10953
65°	147601	0	3097	8639	12348
70°	2266	755	3827	9920	14502
75°	1996	998	4059	10114	17168
80°	1488	1488	6050	12001	19538
85°	0	2964	12054	12054	23910

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1584867 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.3	0.4
10°-20°	18.1	1.0
20°-30°	103.7	5.8
30°-40°	484.6	26.9
40°-50°	685.2	38.1
50°-60°	421.6	23.4
60°-70°	64.2	3.6
70°-80°	10.2	0.6
80°-90°	5.1	0.3
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°	128.2	7.1
0°-40°	612.7	34.1
0°-60°	1719.5	95.6
0°-90°	1799.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1799.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	70	70	70	70	70	
5°	74	73	68	62	61	7
15°	115	70	48	44	46	41
25°	1262	89	27	32	36	777
35°	6303	136	15	26	33	3783
45°	6507	83	11	24	32	4933
55°	4172	20	8	23	33	3550
65°	362	0	8	21	30	655
75°	3	2	6	15	26	3
85°	0	2	6	6	12	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°	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
2.5°	71.2	71.2	72.7	72.7	71.2	72.7	72.7	72.7	69.7	68.2	65.2
5°	74.3	74.3	74.3	75.8	74.3	74.3	72.7	71.2	68.2	63.6	62.1
7.5°	77.3	77.3	75.8	77.3	75.8	75.8	72.7	69.7	65.2	60.6	57.6
10°	80.3	80.3	78.8	78.8	77.3	77.3	71.2	66.7	59.1	54.6	53.0
12.5°	89.4	89.4	87.9	86.4	83.3	81.8	69.7	62.1	53.0	48.5	47.0
15°	115.2	113.7	110.6	106.1	98.5	97.0	69.7	57.6	48.5	43.9	43.9
17.5°	157.6	156.1	151.5	139.4	125.8	121.2	69.7	51.5	42.4	39.4	39.4
20°	281.9	269.7	247.0	216.7	184.9	168.2	74.3	45.5	36.4	34.9	36.4
21°	368.2	356.1	327.3	277.3	221.2	203.1	77.3	43.9	34.9	33.3	36.4
22°	501.6	488.0	428.9	360.7	280.3	248.5	78.8	40.9	31.8	31.8	34.9
23°	700.1	677.4	577.4	468.3	350.1	304.6	81.8	39.4	30.3	31.8	33.3
24°	916.8	897.1	783.5	619.8	447.0	381.9	84.9	37.9	28.8	28.8	31.8
25°	1262.3	1239.6	1038.1	781.9	566.8	459.2	89.4	34.9	27.3	27.3	31.8
26°	1709.4	1604.8	1336.6	1007.7	698.6	575.9	94.0	33.3	25.8	27.3	30.3
27°	2133.7	2047.3	1745.7	1292.6	863.8	707.7	100.0	31.8	24.2	25.8	30.3
28°	2691.4	2570.1	2189.8	1635.1	1088.1	856.2	106.1	30.3	22.7	25.8	28.8
29°	3315.7	3146.0	2686.8	2020.0	1341.1	1022.9	112.1	28.8	21.2	24.2	28.8
30°	3840.0	3680.9	3221.7	2476.2	1632.1	1242.6	118.2	27.3	19.7	24.2	28.8
31°	4455.3	4214.3	3658.2	2862.6	1882.1	1462.4	124.3	24.2	18.2	22.7	27.3
32°	4953.8	4785.6	4194.6	3299.0	2211.0	1704.8	128.8	22.7	18.2	22.7	27.3
33°	5435.7	5210.0	4638.6	3717.3	2508.0	1953.4	133.4	21.2	16.7	21.2	27.3
34°	5896.4	5688.8	5058.4	4055.2	2788.3	2189.8	136.4	18.2	16.7	21.2	25.8
35°	6302.6	6061.6	5428.2	4385.6	3076.3	2404.9	136.4	16.7	15.2	19.7	25.8
36°	6566.2	6393.5	5749.4	4711.4	3336.9	2609.5	136.4	15.2	13.6	19.7	24.2
37°	6792.0	6590.5	6007.1	4961.4	3529.4	2773.2	136.4	13.6	13.6	19.7	24.2
38°	6884.5	6711.7	6184.4	5182.7	3709.7	2939.9	134.9	12.1	12.1	18.2	24.2
39°	6920.8	6766.3	6317.7	5341.8	3843.1	3052.0	131.8	10.6	12.1	18.2	24.2
40°	6873.9	6757.2	6385.9	5444.8	3949.1	3133.9	127.3	9.1	10.6	18.2	24.2
42.5°	6679.9	6602.6	6370.7	5547.9	4040.1	3194.5	110.6	6.1	10.6	16.7	24.2
45°	6507.1	6422.3	6217.7	5440.3	3921.9	3074.8	83.3	3.0	10.6	16.7	24.2
47.5°	6172.2	6119.2	5958.6	5166.0	3662.7	2805.0	59.1	1.5	9.1	15.2	22.7
50°	5500.9	5450.9	5238.7	4485.6	3150.5	2371.6	42.4	1.5	7.6	15.2	22.7
52.5°	4899.3	4846.3	4541.7	3729.4	2420.1	1738.2	27.3	1.5	7.6	15.2	22.7
55°	4171.9	4079.5	3679.4	2830.8	1715.4	1165.3	19.7	1.5	7.6	13.6	22.7
57.5°	3088.4	2953.5	2595.9	1930.6	988.0	631.9	10.6	1.5	7.6	13.6	22.7
60°	2100.3	2020.0	1624.5	1018.3	421.3	266.7	4.5	1.5	7.6	13.6	21.2
62.5°	1272.9	1171.4	816.8	433.4	181.8	121.2	0.0	3.0	7.6	13.6	21.2
65°	362.2	321.3	213.7	98.5	51.5	39.4	0.0	3.0	7.6	13.6	21.2
67.5°	12.1	12.1	12.1	10.6	7.6	7.6	1.5	3.0	7.6	13.6	19.7
70°	4.5	4.5	4.5	3.0	3.0	1.5	1.5	3.0	7.6	12.1	19.7
72.5°	3.0	3.0	3.0	3.0	1.5	1.5	1.5	3.0	6.1	10.6	18.2
75°	3.0	3.0	3.0	1.5	1.5	1.5	1.5	4.5	6.1	10.6	15.2
77.5°	3.0	3.0	3.0	1.5	1.5	1.5	1.5	4.5	6.1	9.1	15.2
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	4.5	6.1	9.1	12.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	1.5	1.5	1.5	0.0	0.0	0.0	1.5	4.5	6.1	6.1	9.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	4.5	6.1	4.5	6.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	4.5	4.5	4.5	3.0
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°	69.7	69.7
2.5°	65.2	65.2
5°	60.6	60.6
7.5°	56.1	56.1
10°	51.5	51.5
12.5°	48.5	48.5
15°	43.9	45.5
17.5°	40.9	42.4
20°	39.4	40.9
21°	39.4	40.9
22°	37.9	39.4
23°	37.9	39.4
24°	36.4	37.9
25°	34.9	36.4
26°	34.9	36.4
27°	34.9	36.4
28°	33.3	36.4
29°	33.3	34.9
30°	33.3	34.9
31°	31.8	34.9
32°	31.8	34.9
33°	31.8	33.3
34°	30.3	33.3
35°	30.3	33.3
36°	30.3	33.3
37°	30.3	31.8
38°	30.3	33.3
39°	30.3	31.8
40°	30.3	31.8
42.5°	30.3	31.8
45°	30.3	31.8
47.5°	30.3	33.3
50°	30.3	33.3
52.5°	30.3	33.3
55°	30.3	33.3
57.5°	30.3	31.8
60°	30.3	31.8
62.5°	28.8	31.8
65°	28.8	30.3
67.5°	28.8	30.3
70°	27.3	28.8
72.5°	25.8	27.3
75°	22.7	25.8
77.5°	21.2	22.7
80°	18.2	19.7



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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	15.2	15.2
85°	10.6	12.1
87.5°	6.1	6.1
90°	0.0	0.0

(END OF REPORT)