

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: P1309281

Luminaire Tested: P3SQAS17R309035DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309281
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: P3SQAS17R309035DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R30 optic, 3500K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

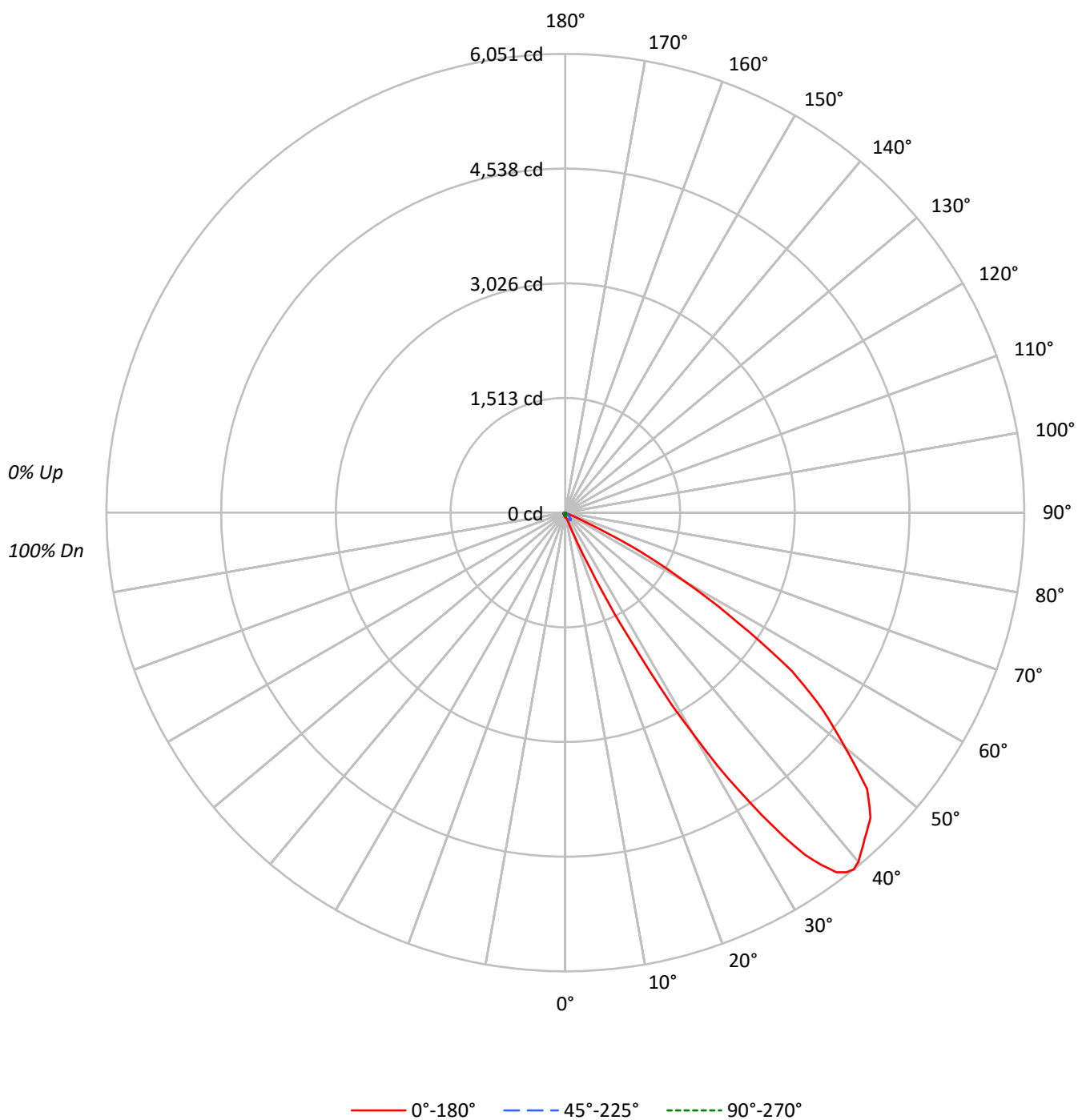
Lumens per Lamp: N/A
Luminaire Lumens: 1573.1 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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
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°	10506	10506	10506	10506	10506
5°	11220	10995	10304	9387	9163
10°	12277	10895	9041	8114	7887
15°	17955	10876	7560	6847	7096
20°	45177	11895	5828	5828	6561
25°	209732	14860	4542	5283	6043
30°	667711	20563	3420	5011	6065
35°	1158618	25082	2796	4731	6139
40°	1351240	25023	2091	4766	6250
45°	1385781	17755	2265	5163	6771
50°	1288721	9940	1768	5332	7824
55°	1095292	5164	1982	5975	8768
60°	632574	1378	2273	6407	9576
65°	129060	0	2690	7580	10799
70°	2014	655	3323	8661	12689
75°	1797	865	3527	8850	14972
80°	1289	1289	5256	10513	17059
85°	0	2569	10473	10473	20946

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1385781 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.5	0.4
10°-20°	15.9	1.0
20°-30°	90.7	5.8
30°-40°	423.7	26.9
40°-50°	599.2	38.1
50°-60°	368.6	23.4
60°-70°	56.1	3.6
70°-80°	8.9	0.6
80°-90°	4.5	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°	112.1	7.1
0°-40°	535.8	34.1
0°-60°	1503.6	95.6
0°-90°	1573.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1573.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	61	61	61	61	61	
5°	65	64	60	54	53	6
15°	101	61	42	38	40	36
25°	1104	78	24	28	32	679
35°	5511	119	13	22	29	3307
45°	5690	73	9	21	28	4313
55°	3648	17	7	20	29	3104
65°	317	0	7	19	26	573
75°	3	1	5	13	22	3
85°	0	1	5	5	11	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°	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
2.5°	62.3	62.3	63.6	63.6	62.3	63.6	63.6	63.6	61.0	59.6	57.0
5°	64.9	64.9	64.9	66.3	64.9	64.9	63.6	62.3	59.6	55.7	54.3
7.5°	67.6	67.6	66.3	67.6	66.3	66.3	63.6	61.0	57.0	53.0	50.4
10°	70.2	70.2	68.9	68.9	67.6	67.6	62.3	58.3	51.7	47.7	46.4
12.5°	78.2	78.2	76.9	75.5	72.9	71.6	61.0	54.3	46.4	42.4	41.1
15°	100.7	99.4	96.7	92.8	86.1	84.8	61.0	50.4	42.4	38.4	38.4
17.5°	137.8	136.5	132.5	121.9	110.0	106.0	61.0	45.1	37.1	34.5	34.5
20°	246.5	235.9	216.0	189.5	161.7	147.1	64.9	39.8	31.8	30.5	31.8
21°	322.0	311.4	286.2	242.5	193.5	177.6	67.6	38.4	30.5	29.2	31.8
22°	438.6	426.7	375.0	315.4	245.1	217.3	68.9	35.8	27.8	27.8	30.5
23°	612.2	592.3	504.8	409.4	306.1	266.3	71.6	34.5	26.5	27.8	29.2
24°	801.6	784.4	685.0	541.9	390.9	333.9	74.2	33.1	25.2	25.2	27.8
25°	1103.7	1083.9	907.6	683.7	495.6	401.5	78.2	30.5	23.9	23.9	27.8
26°	1494.6	1403.2	1168.7	881.1	610.8	503.5	82.2	29.2	22.5	23.9	26.5
27°	1865.6	1790.1	1526.4	1130.2	755.3	618.8	87.5	27.8	21.2	22.5	26.5
28°	2353.3	2247.2	1914.7	1429.7	951.4	748.6	92.8	26.5	19.9	22.5	25.2
29°	2899.2	2750.8	2349.3	1766.3	1172.7	894.4	98.1	25.2	18.6	21.2	25.2
30°	3357.6	3218.5	2817.0	2165.1	1427.1	1086.5	103.4	23.9	17.2	21.2	25.2
31°	3895.6	3684.9	3198.6	2503.0	1645.7	1278.7	108.7	21.2	15.9	19.9	23.9
32°	4331.5	4184.4	3667.7	2884.6	1933.2	1490.7	112.6	19.9	15.9	19.9	23.9
33°	4752.9	4555.4	4055.9	3250.3	2192.9	1708.0	116.6	18.6	14.6	18.6	23.9
34°	5155.7	4974.2	4422.9	3545.8	2438.1	1914.7	119.3	15.9	14.6	18.6	22.5
35°	5510.8	5300.1	4746.3	3834.6	2689.8	2102.8	119.3	14.6	13.3	17.2	22.5
36°	5741.3	5590.3	5027.2	4119.5	2917.7	2281.7	119.3	13.3	11.9	17.2	21.2
37°	5938.8	5762.6	5252.4	4338.1	3086.0	2424.8	119.3	11.9	11.9	17.2	21.2
38°	6019.6	5868.6	5407.4	4531.6	3243.7	2570.6	117.9	10.6	10.6	15.9	21.2
39°	6051.4	5916.3	5524.0	4670.7	3360.3	2668.6	115.3	9.3	10.6	15.9	21.2
40°	6010.3	5908.3	5583.7	4760.8	3453.0	2740.2	111.3	8.0	9.3	15.9	21.2
42.5°	5840.7	5773.2	5570.4	4850.9	3532.5	2793.2	96.7	5.3	9.3	14.6	21.2
45°	5689.7	5615.5	5436.6	4756.9	3429.2	2688.5	72.9	2.7	9.3	14.6	21.2
47.5°	5396.8	5350.5	5210.0	4517.0	3202.6	2452.6	51.7	1.3	8.0	13.3	19.9
50°	4809.9	4766.1	4580.6	3922.1	2754.7	2073.7	37.1	1.3	6.6	13.3	19.9
52.5°	4283.8	4237.4	3971.1	3260.9	2116.1	1519.8	23.9	1.3	6.6	13.3	19.9
55°	3647.8	3567.0	3217.2	2475.2	1499.9	1018.9	17.2	1.3	6.6	11.9	19.9
57.5°	2700.4	2582.5	2269.8	1688.1	863.9	552.5	9.3	1.3	6.6	11.9	19.9
60°	1836.5	1766.3	1420.4	890.4	368.4	233.2	4.0	1.3	6.6	11.9	18.6
62.5°	1113.0	1024.2	714.2	379.0	159.0	106.0	0.0	2.7	6.6	11.9	18.6
65°	316.7	280.9	186.8	86.1	45.1	34.5	0.0	2.7	6.6	11.9	18.6
67.5°	10.6	10.6	10.6	9.3	6.6	6.6	1.3	2.7	6.6	11.9	17.2
70°	4.0	4.0	4.0	2.7	2.7	1.3	1.3	2.7	6.6	10.6	17.2
72.5°	2.7	2.7	2.7	2.7	1.3	1.3	1.3	2.7	5.3	9.3	15.9
75°	2.7	2.7	2.7	1.3	1.3	1.3	1.3	4.0	5.3	9.3	13.3
77.5°	2.7	2.7	2.7	1.3	1.3	1.3	1.3	4.0	5.3	8.0	13.3
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	4.0	5.3	8.0	10.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	1.3	1.3	1.3	0.0	0.0	0.0	1.3	4.0	5.3	5.3	8.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	4.0	5.3	4.0	5.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	4.0	4.0	4.0	2.7
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°	61.0	61.0
2.5°	57.0	57.0
5°	53.0	53.0
7.5°	49.0	49.0
10°	45.1	45.1
12.5°	42.4	42.4
15°	38.4	39.8
17.5°	35.8	37.1
20°	34.5	35.8
21°	34.5	35.8
22°	33.1	34.5
23°	33.1	34.5
24°	31.8	33.1
25°	30.5	31.8
26°	30.5	31.8
27°	30.5	31.8
28°	29.2	31.8
29°	29.2	30.5
30°	29.2	30.5
31°	27.8	30.5
32°	27.8	30.5
33°	27.8	29.2
34°	26.5	29.2
35°	26.5	29.2
36°	26.5	29.2
37°	26.5	27.8
38°	26.5	29.2
39°	26.5	27.8
40°	26.5	27.8
42.5°	26.5	27.8
45°	26.5	27.8
47.5°	26.5	29.2
50°	26.5	29.2
52.5°	26.5	29.2
55°	26.5	29.2
57.5°	26.5	27.8
60°	26.5	27.8
62.5°	25.2	27.8
65°	25.2	26.5
67.5°	25.2	26.5
70°	23.9	25.2
72.5°	22.5	23.9
75°	19.9	22.5
77.5°	18.6	19.9
80°	15.9	17.2

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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	13.3	13.3
85°	9.3	10.6
87.5°	5.3	5.3
90°	0.0	0.0

(END OF REPORT)