

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: P1310073

Luminaire Tested: P3SQAS09R309040DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310073
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: P3SQAS09R309040DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R30 optic, 4000K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

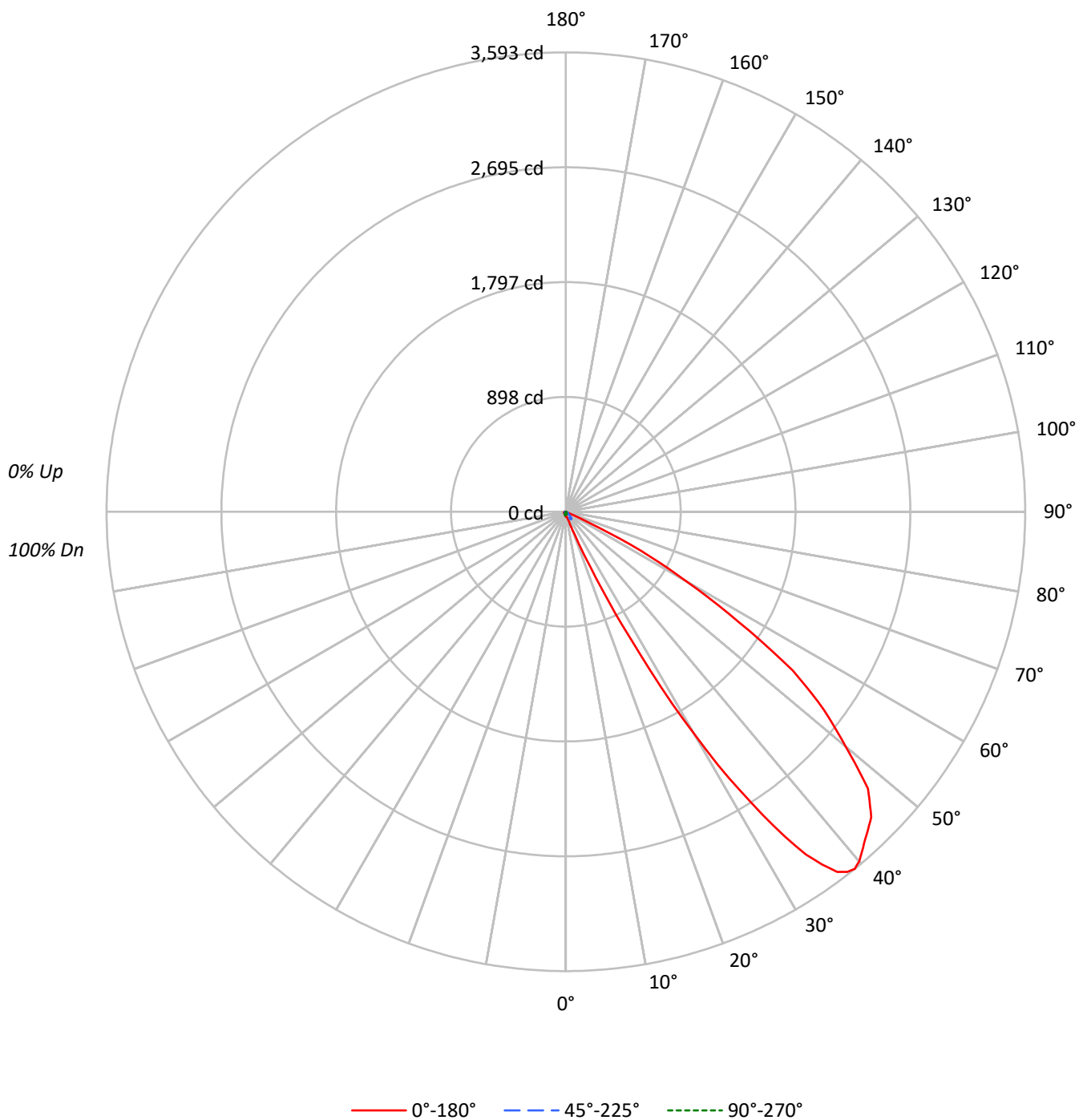
Lumens per Lamp: N/A
Luminaire Lumens: 934.0 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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

TEST NUMBER: P1310073

CATALOG NUMBER: P3SQAS09R309040DE010 E3SQCA451MB

Luminous Intensity Polar Plot



TEST NUMBER: P1310073

CATALOG NUMBER: P3SQAS09R309040DE010 E3SQCA451MB

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°	6234	6234	6234	6234	6234
5°	6673	6535	6120	5584	5446
10°	7292	6471	5369	4809	4669
15°	10662	6454	4493	4065	4208
20°	26813	7074	3464	3464	3885
25°	124543	8817	2698	3135	3592
30°	396478	12210	2028	2963	3599
35°	687943	14885	1661	2817	3637
40°	802340	14861	1237	2833	3710
45°	822842	10546	1340	3069	4019
50°	765184	5894	1045	3162	4635
55°	650365	3063	1171	3543	5195
60°	375618	827	1343	3789	5683
65°	76613	0	1589	4483	6398
70°	1209	403	1964	5136	7503
75°	1065	532	2063	5257	8917
80°	793	793	3075	6248	10116
85°	0	1581	6126	6126	12449

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 822842 cd/sqm

TEST NUMBER: P1310073

CATALOG NUMBER: P3SQAS09R309040DE010 E3SQCA451MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.3	0.4
10°-20°	9.4	1.0
20°-30°	53.9	5.8
30°-40°	251.6	26.9
40°-50°	355.8	38.1
50°-60°	218.9	23.4
60°-70°	33.3	3.6
70°-80°	5.3	0.6
80°-90°	2.6	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°	66.6	7.1
0°-40°	318.1	34.1
0°-60°	892.7	95.6
0°-90°	934.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	934.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	36	36	36	36	36	
5°	39	38	35	32	32	4
15°	60	36	25	23	24	21
25°	655	46	14	16	19	403
35°	3272	71	8	13	17	1964
45°	3378	43	6	13	16	2561
55°	2166	10	4	12	17	1843
65°	188	0	4	11	16	340
75°	2	1	3	8	13	2
85°	0	1	3	3	6	0
90°	0	0	0	0	0	

TEST NUMBER: P1310073

CATALOG NUMBER: P3SQAS09R309040DE010 E3SQCA451MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2
2.5°	37.0	37.0	37.8	37.8	37.0	37.8	37.8	37.8	36.2	35.4	33.8
5°	38.6	38.6	38.6	39.3	38.6	38.6	37.8	37.0	35.4	33.0	32.3
7.5°	40.1	40.1	39.3	40.1	39.3	39.3	37.8	36.2	33.8	31.5	29.9
10°	41.7	41.7	40.9	40.9	40.1	40.1	37.0	34.6	30.7	28.3	27.5
12.5°	46.4	46.4	45.6	44.8	43.3	42.5	36.2	32.3	27.5	25.2	24.4
15°	59.8	59.0	57.4	55.1	51.1	50.4	36.2	29.9	25.2	22.8	22.8
17.5°	81.8	81.0	78.7	72.4	65.3	62.9	36.2	26.7	22.0	20.5	20.5
20°	146.3	140.0	128.2	112.5	96.0	87.3	38.6	23.6	18.9	18.1	18.9
21°	191.2	184.9	169.9	144.0	114.9	105.4	40.1	22.8	18.1	17.3	18.9
22°	260.4	253.3	222.7	187.2	145.6	129.0	40.9	21.2	16.5	16.5	18.1
23°	363.5	351.7	299.8	243.1	181.7	158.1	42.5	20.5	15.7	16.5	17.3
24°	476.0	465.8	406.8	321.8	232.1	198.3	44.1	19.7	14.9	14.9	16.5
25°	655.4	643.6	538.9	406.0	294.2	238.4	46.4	18.1	14.2	14.2	16.5
26°	887.5	833.2	693.9	523.2	362.7	299.0	48.8	17.3	13.4	14.2	15.7
27°	1107.8	1062.9	906.4	671.1	448.5	367.4	51.9	16.5	12.6	13.4	15.7
28°	1397.3	1334.3	1136.9	848.9	564.9	444.5	55.1	15.7	11.8	13.4	14.9
29°	1721.4	1633.3	1394.9	1048.8	696.3	531.1	58.2	14.9	11.0	12.6	14.9
30°	1993.7	1911.0	1672.7	1285.6	847.3	645.1	61.4	14.2	10.2	12.6	14.9
31°	2313.1	2188.0	1899.2	1486.2	977.2	759.2	64.5	12.6	9.4	11.8	14.2
32°	2571.9	2484.6	2177.8	1712.8	1147.9	885.1	66.9	11.8	9.4	11.8	14.2
33°	2822.1	2704.9	2408.3	1929.9	1302.1	1014.1	69.2	11.0	8.7	11.0	14.2
34°	3061.3	2953.5	2626.2	2105.4	1447.6	1136.9	70.8	9.4	8.7	11.0	13.4
35°	3272.1	3147.0	2818.2	2276.9	1597.1	1248.6	70.8	8.7	7.9	10.2	13.4
36°	3409.0	3319.3	2985.0	2446.0	1732.5	1354.8	70.8	7.9	7.1	10.2	12.6
37°	3526.3	3421.6	3118.7	2575.9	1832.4	1439.8	70.8	7.1	7.1	10.2	12.6
38°	3574.3	3484.6	3210.8	2690.7	1926.0	1526.3	70.0	6.3	6.3	9.4	12.6
39°	3593.1	3512.9	3280.0	2773.3	1995.2	1584.5	68.4	5.5	6.3	9.4	12.6
40°	3568.8	3508.2	3315.4	2826.8	2050.3	1627.0	66.1	4.7	5.5	9.4	12.6
42.5°	3468.0	3427.9	3307.5	2880.3	2097.5	1658.5	57.4	3.1	5.5	8.7	12.6
45°	3378.4	3334.3	3228.1	2824.5	2036.1	1596.3	43.3	1.6	5.5	8.7	12.6
47.5°	3204.5	3176.9	3093.5	2682.1	1901.6	1456.3	30.7	0.8	4.7	7.9	11.8
50°	2855.9	2830.0	2719.8	2328.8	1635.7	1231.3	22.0	0.8	3.9	7.9	11.8
52.5°	2543.6	2516.1	2357.9	1936.2	1256.5	902.4	14.2	0.8	3.9	7.9	11.8
55°	2166.0	2118.0	1910.3	1469.7	890.6	605.0	10.2	0.8	3.9	7.1	11.8
57.5°	1603.4	1533.4	1347.7	1002.3	513.0	328.1	5.5	0.8	3.9	7.1	11.8
60°	1090.5	1048.8	843.4	528.7	218.7	138.5	2.4	0.8	3.9	7.1	11.0
62.5°	660.9	608.2	424.1	225.0	94.4	62.9	0.0	1.6	3.9	7.1	11.0
65°	188.0	166.8	110.9	51.1	26.7	20.5	0.0	1.6	3.9	7.1	11.0
67.5°	6.3	6.3	6.3	5.5	3.9	3.9	0.8	1.6	3.9	7.1	10.2
70°	2.4	2.4	2.4	1.6	1.6	0.8	0.8	1.6	3.9	6.3	10.2
72.5°	1.6	1.6	1.6	1.6	0.8	0.8	0.8	1.6	3.1	5.5	9.4
75°	1.6	1.6	1.6	0.8	0.8	0.8	0.8	2.4	3.1	5.5	7.9
77.5°	1.6	1.6	1.6	0.8	0.8	0.8	0.8	2.4	3.1	4.7	7.9
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.4	3.1	4.7	6.3



TEST NUMBER: P1310073

CATALOG NUMBER: P3SQAS09R309040DE010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.8	2.4	3.1	3.1	4.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4	3.1	2.4	3.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4	2.4	2.4	1.6
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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CATALOG NUMBER: P3SQAS09R309040DE010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	36.2	36.2
2.5°	33.8	33.8
5°	31.5	31.5
7.5°	29.1	29.1
10°	26.7	26.7
12.5°	25.2	25.2
15°	22.8	23.6
17.5°	21.2	22.0
20°	20.5	21.2
21°	20.5	21.2
22°	19.7	20.5
23°	19.7	20.5
24°	18.9	19.7
25°	18.1	18.9
26°	18.1	18.9
27°	18.1	18.9
28°	17.3	18.9
29°	17.3	18.1
30°	17.3	18.1
31°	16.5	18.1
32°	16.5	18.1
33°	16.5	17.3
34°	15.7	17.3
35°	15.7	17.3
36°	15.7	17.3
37°	15.7	16.5
38°	15.7	17.3
39°	15.7	16.5
40°	15.7	16.5
42.5°	15.7	16.5
45°	15.7	16.5
47.5°	15.7	17.3
50°	15.7	17.3
52.5°	15.7	17.3
55°	15.7	17.3
57.5°	15.7	16.5
60°	15.7	16.5
62.5°	14.9	16.5
65°	14.9	15.7
67.5°	14.9	15.7
70°	14.2	14.9
72.5°	13.4	14.2
75°	11.8	13.4
77.5°	11.0	11.8
80°	9.4	10.2



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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	7.9	7.9
85°	5.5	6.3
87.5°	3.1	3.1
90°	0.0	0.0

(END OF REPORT)