

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: P1319519

Luminaire Tested: P3SQAS02R30B2750DE010 E3SQCA451MW_2700K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319519
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: P3SQAS02R30B2750DE010 E3SQCA451MW_2700K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R30 optic, 2700K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

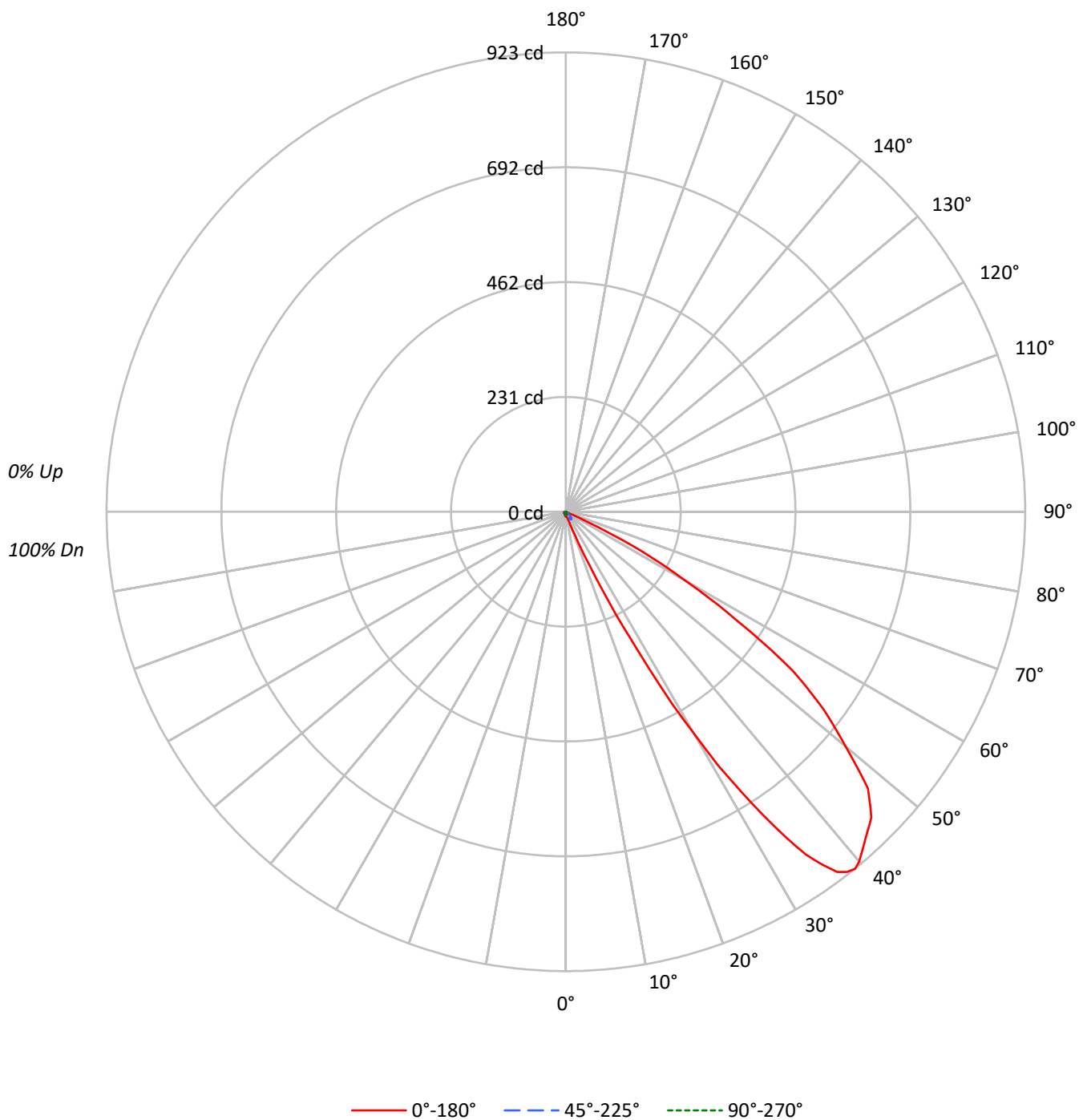
Lumens per Lamp: N/A
Luminaire Lumens: 239.9 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 2.9
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: P1319519

CATALOG NUMBER: P3SQAS02R30B2750DE010 E3SQCA451MW_2700K

Luminous Intensity Polar Plot



TEST NUMBER: P1319519

CATALOG NUMBER: P3SQA02R30B2750DE010 E3SQA451MW_2700K

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
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61	61
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50	50
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	42	42
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35	35
7	62	48	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29	29
8	56	42	33	27	55	41	33	27	40	32	26	39	32	26	37	31	26	24	24
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22	20	20
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	24	19	17	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1602	1602	1602	1602	1602
5°	1712	1677	1573	1435	1400
10°	1871	1661	1382	1242	1207
15°	2746	1658	1159	1052	1088
20°	6891	1814	898	898	1008
25°	32000	2261	684	798	931
30°	101879	3142	517	756	915
35°	176774	3826	420	715	925
40°	206161	3822	315	719	944
45°	211434	2704	341	779	1023
50°	196634	1527	268	804	1179
55°	167125	781	300	901	1321
60°	96514	207	344	964	1447
65°	19683	0	408	1141	1630
70°	302	101	504	1309	1913
75°	266	133	532	1331	2262
80°	198	198	793	1587	2579
85°	0	395	1581	1581	3162

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 211434 cd/sqm

TEST NUMBER: P1319519

CATALOG NUMBER: P3SQAS02R30B2750DE010 E3SQCA451MW_2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.8	0.4
10°-20°	2.4	1.0
20°-30°	13.8	5.8
30°-40°	64.6	26.9
40°-50°	91.4	38.1
50°-60°	56.2	23.4
60°-70°	8.6	3.6
70°-80°	1.3	0.6
80°-90°	0.7	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°	17.1	7.1
0°-40°	81.7	34.1
0°-60°	229.4	95.6
0°-90°	239.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	239.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9	9	9	9	9	
5°	10	10	9	8	8	1
15°	15	9	6	6	6	5
25°	168	12	4	4	5	104
35°	841	18	2	3	4	505
45°	868	11	1	3	4	658
55°	557	3	1	3	4	474
65°	48	0	1	3	4	87
75°	0	0	1	2	3	0
85°	0	0	1	1	2	0
90°	0	0	0	0	0	

TEST NUMBER: P1319519

CATALOG NUMBER: P3SQAS02R30B2750DE010 E3SQCA451MW_2700K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
2.5°	9.5	9.5	9.7	9.7	9.5	9.7	9.7	9.7	9.3	9.1	8.7
5°	9.9	9.9	9.9	10.1	9.9	9.9	9.7	9.5	9.1	8.5	8.3
7.5°	10.3	10.3	10.1	10.3	10.1	10.1	9.7	9.3	8.7	8.1	7.7
10°	10.7	10.7	10.5	10.5	10.3	10.3	9.5	8.9	7.9	7.3	7.1
12.5°	11.9	11.9	11.7	11.5	11.1	10.9	9.3	8.3	7.1	6.5	6.3
15°	15.4	15.2	14.8	14.2	13.1	12.9	9.3	7.7	6.5	5.9	5.9
17.5°	21.0	20.8	20.2	18.6	16.8	16.2	9.3	6.9	5.7	5.3	5.3
20°	37.6	36.0	33.0	28.9	24.7	22.4	9.9	6.1	4.9	4.6	4.9
21°	49.1	47.5	43.7	37.0	29.5	27.1	10.3	5.9	4.6	4.4	4.9
22°	66.9	65.1	57.2	48.1	37.4	33.2	10.5	5.5	4.2	4.2	4.6
23°	93.4	90.4	77.0	62.5	46.7	40.6	10.9	5.3	4.0	4.2	4.4
24°	122.3	119.7	104.5	82.7	59.6	50.9	11.3	5.1	3.8	3.8	4.2
25°	168.4	165.4	138.5	104.3	75.6	61.3	11.9	4.6	3.6	3.6	4.2
26°	228.0	214.1	178.3	134.4	93.2	76.8	12.5	4.4	3.4	3.6	4.0
27°	284.6	273.1	232.9	172.4	115.2	94.4	13.3	4.2	3.2	3.4	4.0
28°	359.0	342.9	292.1	218.1	145.2	114.2	14.2	4.0	3.0	3.4	3.8
29°	442.3	419.7	358.4	269.5	178.9	136.5	15.0	3.8	2.8	3.2	3.8
30°	512.3	491.1	429.8	330.3	217.7	165.8	15.8	3.6	2.6	3.2	3.8
31°	594.4	562.2	488.0	381.9	251.1	195.1	16.6	3.2	2.4	3.0	3.6
32°	660.9	638.4	559.6	440.1	295.0	227.4	17.2	3.0	2.4	3.0	3.6
33°	725.2	695.0	618.8	495.9	334.6	260.6	17.8	2.8	2.2	2.8	3.6
34°	786.6	758.9	674.8	541.0	372.0	292.1	18.2	2.4	2.2	2.8	3.4
35°	840.8	808.7	724.2	585.1	410.4	320.8	18.2	2.2	2.0	2.6	3.4
36°	876.0	852.9	767.0	628.5	445.2	348.1	18.2	2.0	1.8	2.6	3.2
37°	906.1	879.2	801.4	661.9	470.8	370.0	18.2	1.8	1.8	2.6	3.2
38°	918.4	895.4	825.0	691.4	494.9	392.2	18.0	1.6	1.6	2.4	3.2
39°	923.3	902.7	842.8	712.6	512.7	407.2	17.6	1.4	1.6	2.4	3.2
40°	917.0	901.5	851.9	726.4	526.8	418.1	17.0	1.2	1.4	2.4	3.2
42.5°	891.1	880.8	849.9	740.1	539.0	426.2	14.8	0.8	1.4	2.2	3.2
45°	868.1	856.8	829.5	725.8	523.2	410.2	11.1	0.4	1.4	2.2	3.2
47.5°	823.4	816.3	794.9	689.2	488.6	374.2	7.9	0.2	1.2	2.0	3.0
50°	733.9	727.2	698.9	598.4	420.3	316.4	5.7	0.2	1.0	2.0	3.0
52.5°	653.6	646.5	605.9	497.5	322.9	231.9	3.6	0.2	1.0	2.0	3.0
55°	556.6	544.2	490.9	377.6	228.9	155.5	2.6	0.2	1.0	1.8	3.0
57.5°	412.0	394.0	346.3	257.6	131.8	84.3	1.4	0.2	1.0	1.8	3.0
60°	280.2	269.5	216.7	135.9	56.2	35.6	0.6	0.2	1.0	1.8	2.8
62.5°	169.8	156.3	109.0	57.8	24.3	16.2	0.0	0.4	1.0	1.8	2.8
65°	48.3	42.9	28.5	13.1	6.9	5.3	0.0	0.4	1.0	1.8	2.8
67.5°	1.6	1.6	1.6	1.4	1.0	1.0	0.2	0.4	1.0	1.8	2.6
70°	0.6	0.6	0.6	0.4	0.4	0.2	0.2	0.4	1.0	1.6	2.6
72.5°	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.4	0.8	1.4	2.4
75°	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.6	0.8	1.4	2.0
77.5°	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.6	0.8	1.2	2.0
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.8	1.2	1.6



TEST NUMBER: P1319519

CATALOG NUMBER: P3SQAS02R30B2750DE010 E3SQCA451MW_2700K

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	0.2	0.2	0.2	0.0	0.0	0.0	0.2	0.6	0.8	0.8	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.8	0.6	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.6	0.6	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1319519

CATALOG NUMBER: P3SQA02R30B2750DE010 E3SQA451MW_2700K

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	9.3	9.3
2.5°	8.7	8.7
5°	8.1	8.1
7.5°	7.5	7.5
10°	6.9	6.9
12.5°	6.5	6.5
15°	5.9	6.1
17.5°	5.5	5.7
20°	5.3	5.5
21°	5.3	5.5
22°	5.1	5.3
23°	5.1	5.3
24°	4.9	5.1
25°	4.6	4.9
26°	4.6	4.9
27°	4.6	4.9
28°	4.4	4.9
29°	4.4	4.6
30°	4.4	4.6
31°	4.2	4.6
32°	4.2	4.6
33°	4.2	4.4
34°	4.0	4.4
35°	4.0	4.4
36°	4.0	4.4
37°	4.0	4.2
38°	4.0	4.4
39°	4.0	4.2
40°	4.0	4.2
42.5°	4.0	4.2
45°	4.0	4.2
47.5°	4.0	4.4
50°	4.0	4.4
52.5°	4.0	4.4
55°	4.0	4.4
57.5°	4.0	4.2
60°	4.0	4.2
62.5°	3.8	4.2
65°	3.8	4.0
67.5°	3.8	4.0
70°	3.6	3.8
72.5°	3.4	3.6
75°	3.0	3.4
77.5°	2.8	3.0
80°	2.4	2.6



TEST NUMBER: P1319519

CATALOG NUMBER: P3SQAS02R30B2750DE010 E3SQCA451MW_2700K

CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	2.0	2.0
85°	1.4	1.6
87.5°	0.8	0.8
90°	0.0	0.0

(END OF REPORT)