

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: P1319510

Luminaire Tested: P3SQAS02R30B2750DE010 E3SQCA451MB_3000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319510
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 E3SQCA451MB_3000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R30 optic, 3000K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

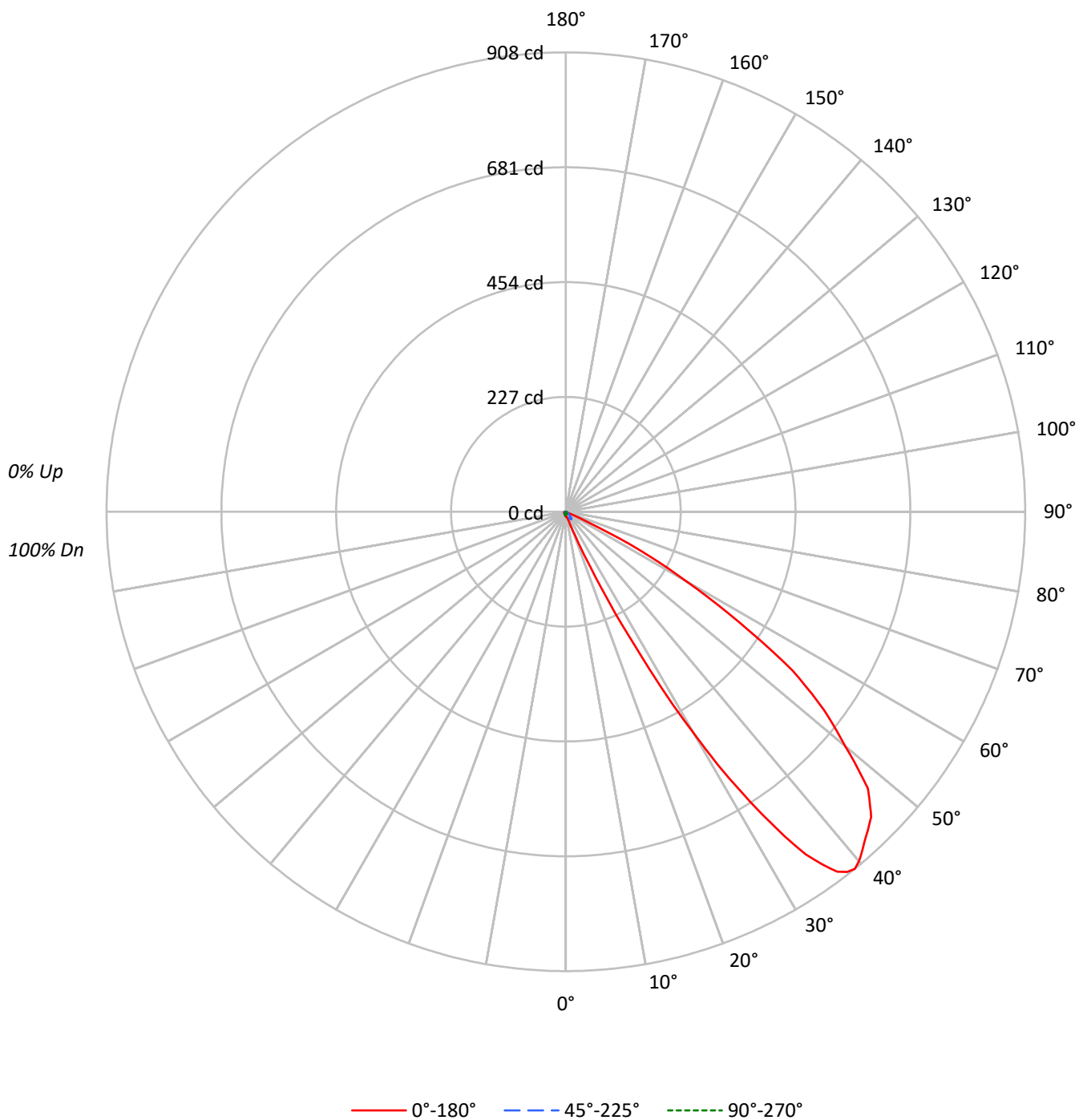
Lumens per Lamp: N/A
Luminaire Lumens: 236.1 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

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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°	1567	1567	1567	1567	1567
5°	1677	1642	1539	1418	1383
10°	1836	1626	1364	1224	1189
15°	2692	1623	1141	1034	1070
20°	6781	1778	880	880	990
25°	31468	2223	684	798	912
30°	100188	3082	517	756	915
35°	173831	3763	420	715	925
40°	202721	3755	315	719	944
45°	207902	2655	341	779	1023
50°	193339	1500	268	804	1179
55°	164333	781	300	901	1321
60°	94895	207	344	964	1447
65°	19357	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: 207902 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.8	0.3
10°-20°	2.4	1.0
20°-30°	13.6	5.8
30°-40°	63.6	26.9
40°-50°	89.9	38.1
50°-60°	55.3	23.4
60°-70°	8.4	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°	16.8	7.1
0°-40°	80.4	34.1
0°-60°	225.6	95.6
0°-90°	236.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	236.1	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°	166	12	4	4	5	102
35°	827	18	2	3	4	496
45°	854	11	1	3	4	647
55°	547	3	1	3	4	466
65°	48	0	1	3	4	86
75°	0	0	1	2	3	0
85°	0	0	1	1	2	0
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°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
2.5°	9.3	9.3	9.5	9.5	9.3	9.5	9.5	9.5	9.1	8.9	8.5
5°	9.7	9.7	9.7	9.9	9.7	9.7	9.5	9.3	8.9	8.3	8.2
7.5°	10.1	10.1	9.9	10.1	9.9	9.9	9.5	9.1	8.5	8.0	7.6
10°	10.5	10.5	10.3	10.3	10.1	10.1	9.3	8.7	7.8	7.2	7.0
12.5°	11.7	11.7	11.5	11.3	10.9	10.7	9.1	8.2	7.0	6.4	6.2
15°	15.1	14.9	14.5	13.9	12.9	12.7	9.1	7.6	6.4	5.8	5.8
17.5°	20.7	20.5	19.9	18.3	16.5	15.9	9.1	6.8	5.6	5.2	5.2
20°	37.0	35.4	32.4	28.4	24.3	22.1	9.7	6.0	4.8	4.6	4.8
21°	48.3	46.7	42.9	36.4	29.0	26.6	10.1	5.8	4.6	4.4	4.8
22°	65.8	64.0	56.3	47.3	36.8	32.6	10.3	5.4	4.2	4.2	4.6
23°	91.8	88.9	75.7	61.4	45.9	40.0	10.7	5.2	4.0	4.2	4.4
24°	120.3	117.7	102.8	81.3	58.6	50.1	11.1	5.0	3.8	3.8	4.2
25°	165.6	162.6	136.2	102.6	74.3	60.2	11.7	4.6	3.6	3.6	4.2
26°	224.2	210.5	175.3	132.2	91.6	75.5	12.3	4.4	3.4	3.6	4.0
27°	279.9	268.6	229.0	169.6	113.3	92.8	13.1	4.2	3.2	3.4	4.0
28°	353.1	337.2	287.3	214.5	142.7	112.3	13.9	4.0	3.0	3.4	3.8
29°	435.0	412.7	352.5	265.0	175.9	134.2	14.7	3.8	2.8	3.2	3.8
30°	503.8	482.9	422.6	324.8	214.1	163.0	15.5	3.6	2.6	3.2	3.8
31°	584.5	552.9	479.9	375.5	246.9	191.8	16.3	3.2	2.4	3.0	3.6
32°	649.9	627.8	550.3	432.8	290.0	223.6	16.9	3.0	2.4	3.0	3.6
33°	713.1	683.5	608.5	487.6	329.0	256.2	17.5	2.8	2.2	2.8	3.6
34°	773.5	746.3	663.6	532.0	365.8	287.3	17.9	2.4	2.2	2.8	3.4
35°	826.8	795.2	712.1	575.3	403.6	315.5	17.9	2.2	2.0	2.6	3.4
36°	861.4	838.7	754.2	618.1	437.7	342.3	17.9	2.0	1.8	2.6	3.2
37°	891.0	864.6	788.0	650.9	463.0	363.8	17.9	1.8	1.8	2.6	3.2
38°	903.1	880.5	811.3	679.9	486.7	385.7	17.7	1.6	1.6	2.4	3.2
39°	907.9	887.6	828.8	700.8	504.1	400.4	17.3	1.4	1.6	2.4	3.2
40°	901.7	886.4	837.7	714.3	518.1	411.1	16.7	1.2	1.4	2.4	3.2
42.5°	876.3	866.2	835.7	727.8	530.0	419.1	14.5	0.8	1.4	2.2	3.2
45°	853.6	842.5	815.7	713.7	514.5	403.4	10.9	0.4	1.4	2.2	3.2
47.5°	809.7	802.7	781.7	677.7	480.5	368.0	7.8	0.2	1.2	2.0	3.0
50°	721.6	715.1	687.2	588.4	413.3	311.1	5.6	0.2	1.0	2.0	3.0
52.5°	642.7	635.8	595.8	489.2	317.5	228.0	3.6	0.2	1.0	2.0	3.0
55°	547.3	535.2	482.7	371.4	225.0	152.9	2.6	0.2	1.0	1.8	3.0
57.5°	405.1	387.5	340.5	253.3	129.6	82.9	1.4	0.2	1.0	1.8	3.0
60°	275.5	265.0	213.1	133.6	55.3	35.0	0.6	0.2	1.0	1.8	2.8
62.5°	167.0	153.7	107.2	56.9	23.9	15.9	0.0	0.4	1.0	1.8	2.8
65°	47.5	42.1	28.0	12.9	6.8	5.2	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



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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



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CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	9.1	9.1
2.5°	8.5	8.5
5°	8.0	8.0
7.5°	7.4	7.4
10°	6.8	6.8
12.5°	6.4	6.4
15°	5.8	6.0
17.5°	5.4	5.6
20°	5.2	5.4
21°	5.2	5.4
22°	5.0	5.2
23°	5.0	5.2
24°	4.8	5.0
25°	4.6	4.8
26°	4.6	4.8
27°	4.6	4.8
28°	4.4	4.8
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



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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)