

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: P1338093

Luminaire Tested: P3A05R30B2750DE010 E3A451WMH_4000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1338093
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R30B2750DE010 E3A451WMH_4000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R30 optic, 4000K CCT AND, 80CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

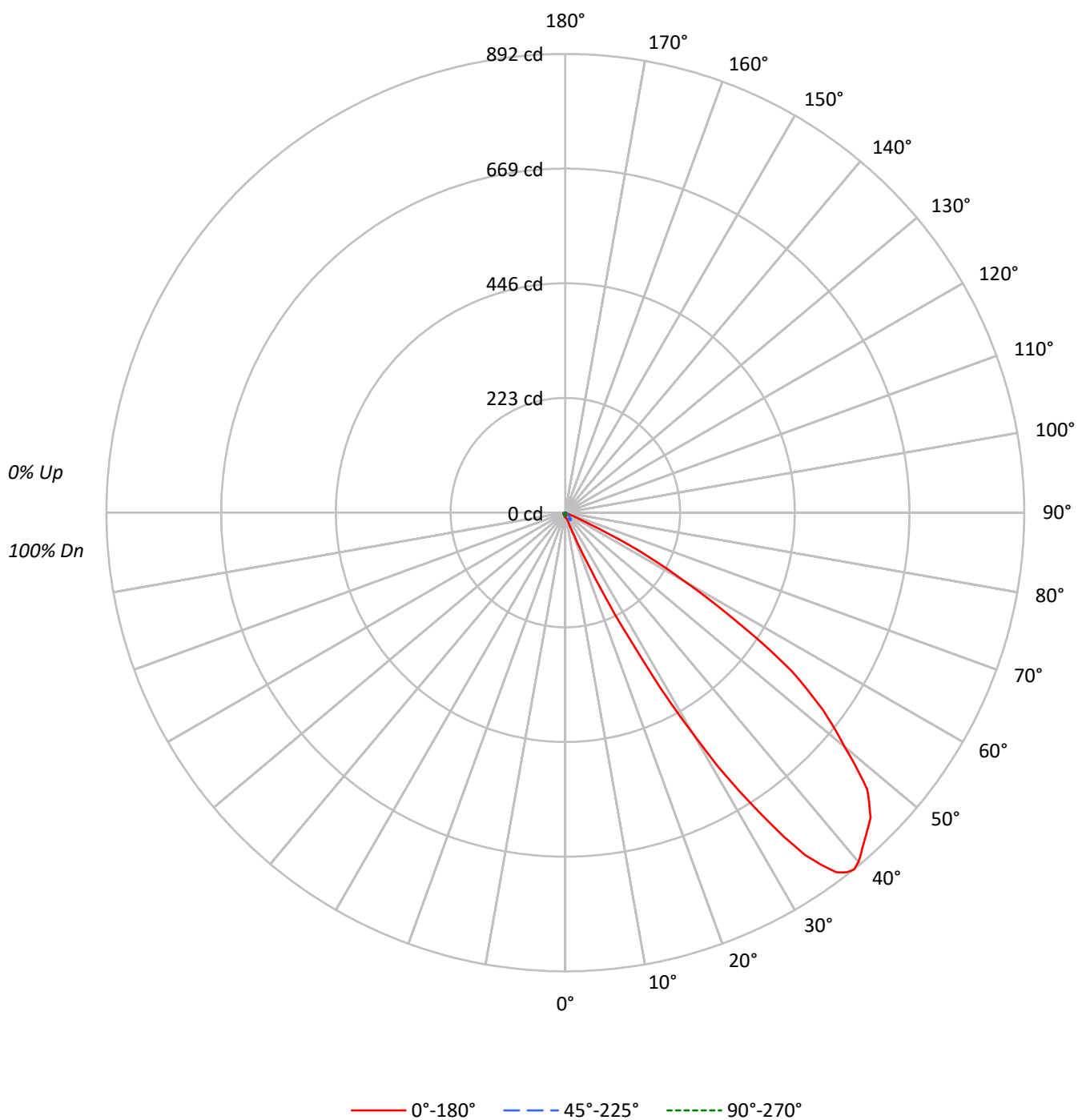
Lumens per Lamp: N/A
Luminaire Lumens: 232.0 lumens
Efficiency: N/A
Efficacy: 39.3 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 5.9
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	0		
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°	1974	1974	1974	1974	1974
5°	2113	2069	1937	1761	1717
10°	2316	2049	1692	1514	1470
15°	3383	2043	1430	1294	1339
20°	8471	2240	1097	1097	1237
25°	39389	2782	847	992	1137
30°	125386	3849	633	937	1139
35°	217580	4711	535	883	1151
40°	253761	4695	401	887	1174
45°	260244	3318	434	961	1271
50°	242005	1876	341	989	1467
55°	205680	956	382	1109	1644
60°	118806	263	439	1184	1798
65°	24231	0	519	1401	2024
70°	385	128	641	1603	2372
75°	339	169	678	1694	2796
80°	253	253	1010	2020	3157
85°	0	503	2013	2013	4026

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 260244 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.8	0.4
10°-20°	2.3	1.0
20°-30°	13.4	5.8
30°-40°	62.5	26.9
40°-50°	88.4	38.1
50°-60°	54.4	23.4
60°-70°	8.3	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°	16.5	7.1
0°-40°	79.0	34.1
0°-60°	221.8	95.6
0°-90°	232.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	232.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9	9	9	9	9	
5°	10	9	9	8	8	1
15°	15	9	6	6	6	5
25°	163	12	4	4	5	100
35°	813	18	2	3	4	488
45°	839	11	1	3	4	636
55°	538	2	1	3	4	458
65°	47	0	1	3	4	85
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°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
2.5°	9.2	9.2	9.4	9.4	9.2	9.4	9.4	9.4	9.0	8.8	8.4
5°	9.6	9.6	9.6	9.8	9.6	9.6	9.4	9.2	8.8	8.2	8.0
7.5°	10.0	10.0	9.8	10.0	9.8	9.8	9.4	9.0	8.4	7.8	7.4
10°	10.4	10.4	10.2	10.2	10.0	10.0	9.2	8.6	7.6	7.0	6.8
12.5°	11.5	11.5	11.3	11.1	10.7	10.6	9.0	8.0	6.8	6.3	6.1
15°	14.9	14.7	14.3	13.7	12.7	12.5	9.0	7.4	6.3	5.7	5.7
17.5°	20.3	20.1	19.5	18.0	16.2	15.6	9.0	6.6	5.5	5.1	5.1
20°	36.3	34.8	31.9	27.9	23.8	21.7	9.6	5.9	4.7	4.5	4.7
21°	47.5	45.9	42.2	35.8	28.5	26.2	10.0	5.7	4.5	4.3	4.7
22°	64.7	62.9	55.3	46.5	36.2	32.1	10.2	5.3	4.1	4.1	4.5
23°	90.3	87.4	74.5	60.4	45.1	39.3	10.6	5.1	3.9	4.1	4.3
24°	118.2	115.7	101.0	79.9	57.7	49.2	10.9	4.9	3.7	3.7	4.1
25°	162.8	159.9	133.9	100.8	73.1	59.2	11.5	4.5	3.5	3.5	4.1
26°	220.4	207.0	172.4	130.0	90.1	74.3	12.1	4.3	3.3	3.5	3.9
27°	275.2	264.0	225.1	166.7	111.4	91.3	12.9	4.1	3.1	3.3	3.9
28°	347.1	331.4	282.4	210.9	140.3	110.4	13.7	3.9	2.9	3.3	3.7
29°	427.6	405.7	346.5	260.5	173.0	131.9	14.5	3.7	2.7	3.1	3.7
30°	495.2	474.7	415.5	319.3	210.5	160.3	15.2	3.5	2.5	3.1	3.7
31°	574.6	543.5	471.8	369.2	242.7	188.6	16.0	3.1	2.3	2.9	3.5
32°	638.9	617.2	540.9	425.4	285.1	219.9	16.6	2.9	2.3	2.9	3.5
33°	701.0	671.9	598.2	479.4	323.4	251.9	17.2	2.7	2.1	2.7	3.5
34°	760.4	733.6	652.3	523.0	359.6	282.4	17.6	2.3	2.1	2.7	3.3
35°	812.8	781.7	700.0	565.6	396.7	310.1	17.6	2.1	2.0	2.5	3.3
36°	846.8	824.5	741.5	607.6	430.3	336.5	17.6	2.0	1.8	2.5	3.1
37°	875.9	849.9	774.7	639.8	455.1	357.6	17.6	1.8	1.8	2.5	3.1
38°	887.8	865.5	797.5	668.4	478.4	379.1	17.4	1.6	1.6	2.3	3.1
39°	892.5	872.6	814.7	688.9	495.6	393.6	17.0	1.4	1.6	2.3	3.1
40°	886.5	871.4	823.5	702.2	509.3	404.1	16.4	1.2	1.4	2.3	3.1
42.5°	861.4	851.5	821.6	715.5	521.0	412.0	14.3	0.8	1.4	2.1	3.1
45°	839.2	828.2	801.8	701.6	505.8	396.5	10.7	0.4	1.4	2.1	3.1
47.5°	796.0	789.1	768.4	666.2	472.3	361.7	7.6	0.2	1.2	2.0	2.9
50°	709.4	703.0	675.6	578.5	406.3	305.8	5.5	0.2	1.0	2.0	2.9
52.5°	631.8	625.0	585.7	480.9	312.1	224.2	3.5	0.2	1.0	2.0	2.9
55°	538.0	526.1	474.5	365.1	221.2	150.3	2.5	0.2	1.0	1.8	2.9
57.5°	398.3	380.9	334.8	249.0	127.4	81.5	1.4	0.2	1.0	1.8	2.9
60°	270.9	260.5	209.5	131.3	54.3	34.4	0.6	0.2	1.0	1.8	2.7
62.5°	164.2	151.1	105.3	55.9	23.5	15.6	0.0	0.4	1.0	1.8	2.7
65°	46.7	41.4	27.6	12.7	6.6	5.1	0.0	0.4	1.0	1.8	2.7
67.5°	1.6	1.6	1.6	1.4	1.0	1.0	0.2	0.4	1.0	1.8	2.5
70°	0.6	0.6	0.6	0.4	0.4	0.2	0.2	0.4	1.0	1.6	2.5
72.5°	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.4	0.8	1.4	2.3
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°	9.0	9.0
2.5°	8.4	8.4
5°	7.8	7.8
7.5°	7.2	7.2
10°	6.6	6.6
12.5°	6.3	6.3
15°	5.7	5.9
17.5°	5.3	5.5
20°	5.1	5.3
21°	5.1	5.3
22°	4.9	5.1
23°	4.9	5.1
24°	4.7	4.9
25°	4.5	4.7
26°	4.5	4.7
27°	4.5	4.7
28°	4.3	4.7
29°	4.3	4.5
30°	4.3	4.5
31°	4.1	4.5
32°	4.1	4.5
33°	4.1	4.3
34°	3.9	4.3
35°	3.9	4.3
36°	3.9	4.3
37°	3.9	4.1
38°	3.9	4.3
39°	3.9	4.1
40°	3.9	4.1
42.5°	3.9	4.1
45°	3.9	4.1
47.5°	3.9	4.3
50°	3.9	4.3
52.5°	3.9	4.3
55°	3.9	4.3
57.5°	3.9	4.1
60°	3.9	4.1
62.5°	3.7	4.1
65°	3.7	3.9
67.5°	3.7	3.9
70°	3.5	3.7
72.5°	3.3	3.5
75°	2.9	3.3
77.5°	2.7	2.9
80°	2.3	2.5



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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)