

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: P1338094

Luminaire Tested: P3A05R30B2750DE010 E3A451WMH_5000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1338094
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_5000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R30 optic, 5000K CCT AND, 80CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

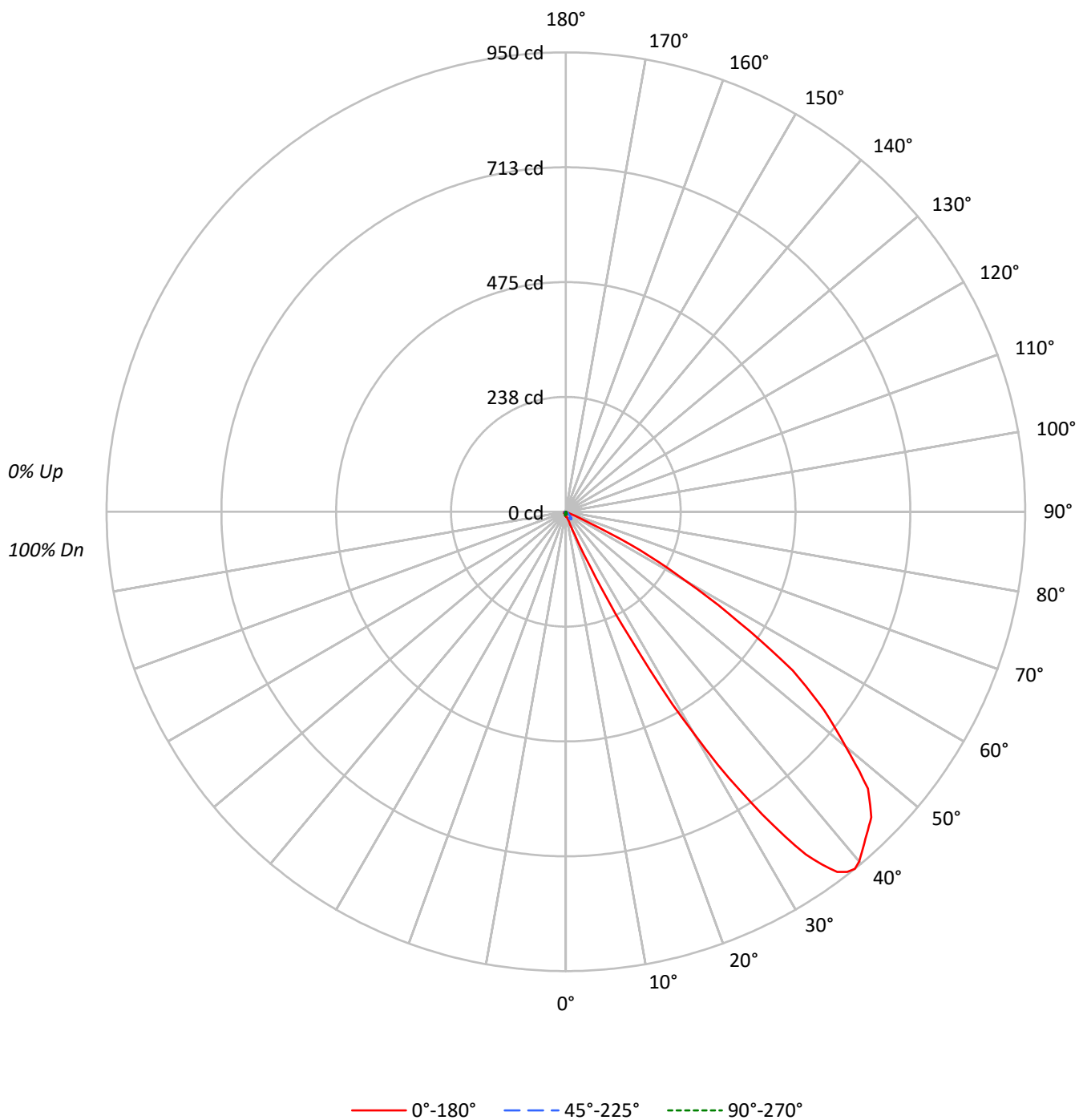
Lumens per Lamp: N/A
Luminaire Lumens: 247.0 lumens
Efficiency: N/A
Efficacy: 41.9 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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				0			
RW	70	50	30	10	70	50	30	10	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°	2105	2105	2105	2105	2105
5°	2245	2201	2069	1871	1827
10°	2449	2182	1804	1625	1581
15°	3587	2179	1521	1362	1407
20°	9031	2380	1167	1167	1307
25°	41930	2976	895	1065	1210
30°	133489	4102	684	1013	1215
35°	231634	5006	562	937	1231
40°	270163	5009	429	945	1260
45°	277052	3535	465	1023	1364
50°	257663	1979	341	1058	1569
55°	218984	1032	382	1185	1759
60°	126481	263	439	1272	1930
65°	25787	0	519	1505	2179
70°	385	128	641	1731	2565
75°	339	169	678	1779	2965
80°	253	253	1010	2147	3410
85°	0	503	2013	2013	4277

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 277052 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.9	0.4
10°-20°	2.5	1.0
20°-30°	14.2	5.8
30°-40°	66.5	26.9
40°-50°	94.1	38.1
50°-60°	57.9	23.4
60°-70°	8.8	3.6
70°-80°	1.4	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°	17.6	7.1
0°-40°	84.1	34.1
0°-60°	236.1	95.6
0°-90°	247.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	247.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	10	10	9	8	8	1
15°	16	10	7	6	6	6
25°	173	12	4	4	5	107
35°	865	19	2	4	5	519
45°	893	11	2	3	4	677
55°	573	3	1	3	5	487
65°	50	0	1	3	4	90
75°	0	0	1	2	4	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°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
2.5°	9.8	9.8	10.0	10.0	9.8	10.0	10.0	10.0	9.6	9.4	8.9
5°	10.2	10.2	10.2	10.4	10.2	10.2	10.0	9.8	9.4	8.7	8.5
7.5°	10.6	10.6	10.4	10.6	10.4	10.4	10.0	9.6	8.9	8.3	7.9
10°	11.0	11.0	10.8	10.8	10.6	10.6	9.8	9.2	8.1	7.5	7.3
12.5°	12.3	12.3	12.1	11.9	11.4	11.2	9.6	8.5	7.3	6.7	6.4
15°	15.8	15.6	15.2	14.6	13.5	13.3	9.6	7.9	6.7	6.0	6.0
17.5°	21.6	21.4	20.8	19.1	17.3	16.6	9.6	7.1	5.8	5.4	5.4
20°	38.7	37.0	33.9	29.8	25.4	23.1	10.2	6.2	5.0	4.8	5.0
21°	50.6	48.9	44.9	38.1	30.4	27.9	10.6	6.0	4.8	4.6	5.0
22°	68.9	67.0	58.9	49.5	38.5	34.1	10.8	5.6	4.4	4.4	4.8
23°	96.1	93.0	79.3	64.3	48.1	41.8	11.2	5.4	4.2	4.4	4.6
24°	125.9	123.2	107.6	85.1	61.4	52.4	11.7	5.2	4.0	4.0	4.4
25°	173.3	170.2	142.5	107.4	77.8	63.0	12.3	4.8	3.7	3.7	4.4
26°	234.7	220.3	183.5	138.4	95.9	79.1	12.9	4.6	3.5	3.7	4.2
27°	293.0	281.1	239.7	177.5	118.6	97.2	13.7	4.4	3.3	3.5	4.2
28°	369.5	352.9	300.7	224.5	149.4	117.6	14.6	4.2	3.1	3.5	4.0
29°	455.2	431.9	368.9	277.3	184.1	140.4	15.4	4.0	2.9	3.3	4.0
30°	527.2	505.4	442.3	340.0	224.1	170.6	16.2	3.7	2.7	3.3	4.0
31°	611.7	578.6	502.3	393.0	258.4	200.8	17.1	3.3	2.5	3.1	3.7
32°	680.2	657.1	575.9	453.0	303.6	234.1	17.7	3.1	2.5	3.1	3.7
33°	746.3	715.3	636.9	510.4	344.3	268.2	18.3	2.9	2.3	2.9	3.7
34°	809.6	781.1	694.5	556.8	382.8	300.7	18.7	2.5	2.3	2.9	3.5
35°	865.3	832.2	745.3	602.1	422.4	330.2	18.7	2.3	2.1	2.7	3.5
36°	901.5	877.8	789.4	646.9	458.2	358.3	18.7	2.1	1.9	2.7	3.3
37°	932.5	904.9	824.8	681.2	484.6	380.8	18.7	1.9	1.9	2.7	3.3
38°	945.2	921.5	849.1	711.6	509.3	403.6	18.5	1.7	1.7	2.5	3.3
39°	950.2	929.0	867.4	733.4	527.6	419.0	18.1	1.5	1.7	2.5	3.3
40°	943.8	927.8	876.8	747.6	542.2	430.3	17.5	1.2	1.5	2.5	3.3
42.5°	917.1	906.5	874.7	761.7	554.7	438.6	15.2	0.8	1.5	2.3	3.3
45°	893.4	881.8	853.7	746.9	538.5	422.2	11.4	0.4	1.5	2.3	3.3
47.5°	847.4	840.2	818.1	709.3	502.9	385.1	8.1	0.2	1.2	2.1	3.1
50°	755.3	748.4	719.3	615.9	432.6	325.6	5.8	0.2	1.0	2.1	3.1
52.5°	672.7	665.4	623.6	512.0	332.3	238.6	3.7	0.2	1.0	2.1	3.1
55°	572.8	560.1	505.2	388.7	235.5	160.0	2.7	0.2	1.0	1.9	3.1
57.5°	424.0	405.5	356.4	265.1	135.7	86.8	1.5	0.2	1.0	1.9	3.1
60°	288.4	277.3	223.0	139.8	57.8	36.6	0.6	0.2	1.0	1.9	2.9
62.5°	174.8	160.8	112.1	59.5	25.0	16.6	0.0	0.4	1.0	1.9	2.9
65°	49.7	44.1	29.3	13.5	7.1	5.4	0.0	0.4	1.0	1.9	2.9
67.5°	1.7	1.7	1.7	1.5	1.0	1.0	0.2	0.4	1.0	1.9	2.7
70°	0.6	0.6	0.6	0.4	0.4	0.2	0.2	0.4	1.0	1.7	2.7
72.5°	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.4	0.8	1.5	2.5
75°	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.6	0.8	1.5	2.1
77.5°	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.6	0.8	1.2	2.1
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.8	1.2	1.7



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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°	9.6	9.6
2.5°	8.9	8.9
5°	8.3	8.3
7.5°	7.7	7.7
10°	7.1	7.1
12.5°	6.7	6.7
15°	6.0	6.2
17.5°	5.6	5.8
20°	5.4	5.6
21°	5.4	5.6
22°	5.2	5.4
23°	5.2	5.4
24°	5.0	5.2
25°	4.8	5.0
26°	4.8	5.0
27°	4.8	5.0
28°	4.6	5.0
29°	4.6	4.8
30°	4.6	4.8
31°	4.4	4.8
32°	4.4	4.8
33°	4.4	4.6
34°	4.2	4.6
35°	4.2	4.6
36°	4.2	4.6
37°	4.2	4.4
38°	4.2	4.6
39°	4.2	4.4
40°	4.2	4.4
42.5°	4.2	4.4
45°	4.2	4.4
47.5°	4.2	4.6
50°	4.2	4.6
52.5°	4.2	4.6
55°	4.2	4.6
57.5°	4.2	4.4
60°	4.2	4.4
62.5°	4.0	4.4
65°	4.0	4.2
67.5°	4.0	4.2
70°	3.7	4.0
72.5°	3.5	3.7
75°	3.1	3.5
77.5°	2.9	3.1
80°	2.5	2.7



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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	2.1	2.1
85°	1.5	1.7
87.5°	0.8	0.8
90°	0.0	0.0

(END OF REPORT)