

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: P1338090

Luminaire Tested: P3A05R30B2750DE010 E3A451WMH_2700K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1338090
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_2700K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R30 optic, 2700K CCT AND, 90CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

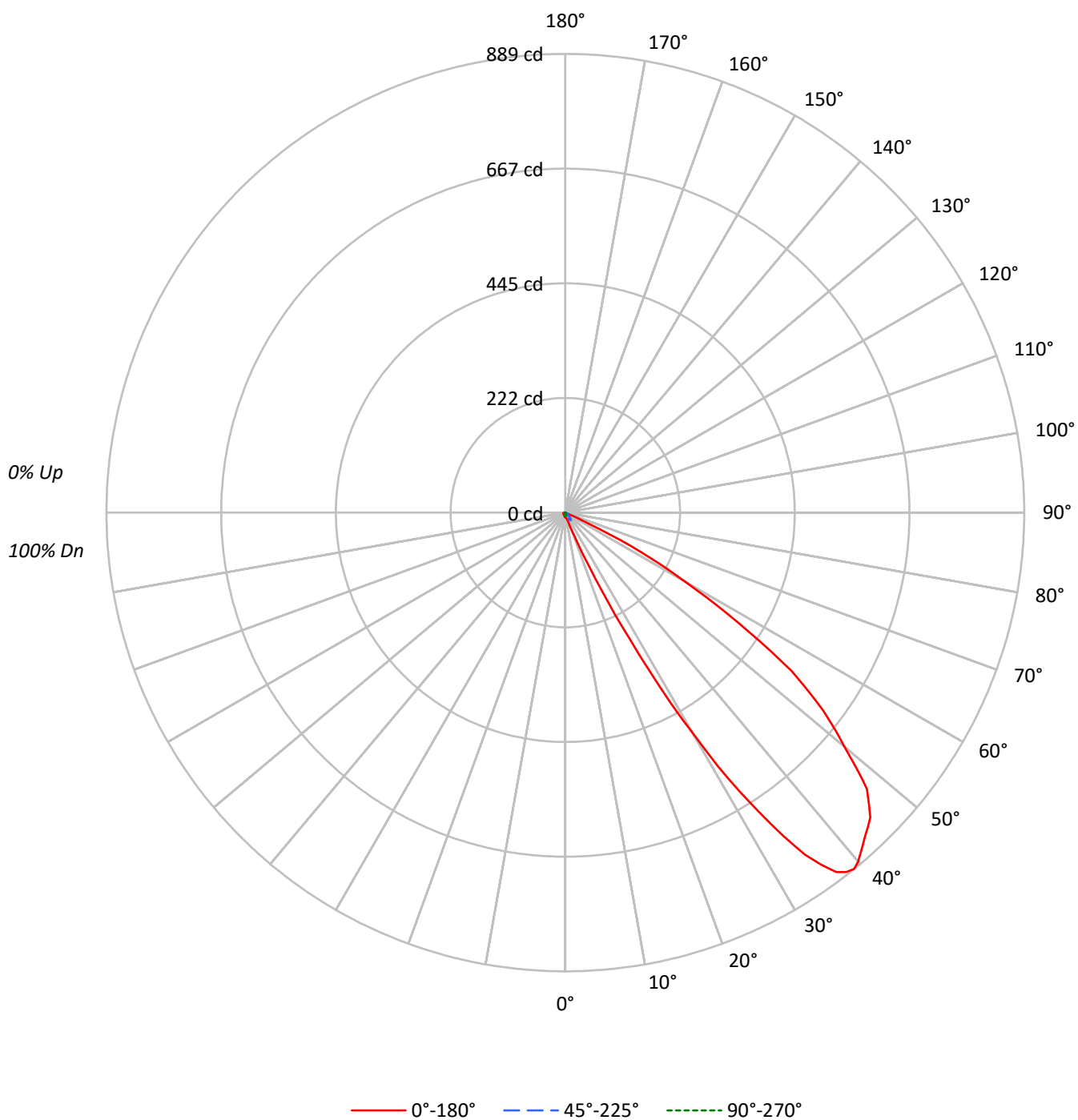
Lumens per Lamp: N/A
Luminaire Lumens: 231.0 lumens
Efficiency: N/A
Efficacy: 39.2 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.65 / 1.44
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	1974	1974	1974	1974	1974
5°	2091	2047	1937	1761	1717
10°	2293	2026	1692	1514	1470
15°	3360	2043	1407	1271	1317
20°	8447	2217	1097	1097	1237
25°	39220	2782	847	992	1137
30°	124855	3849	633	937	1139
35°	216643	4685	509	883	1151
40°	252645	4666	401	887	1174
45°	259097	3318	434	961	1271
50°	240947	1842	341	989	1467
55°	204800	956	382	1109	1644
60°	118280	263	439	1184	1798
65°	24127	0	519	1401	2024
70°	385	128	641	1603	2372
75°	339	169	678	1610	2796
80°	253	253	1010	2020	3157
85°	0	503	2013	2013	4026

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 259097 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°	13.3	5.8
30°-40°	62.2	26.9
40°-50°	88.0	38.1
50°-60°	54.1	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°	78.7	34.1
0°-60°	220.8	95.6
0°-90°	231.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	231.0	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°	162	12	4	4	5	100
35°	809	18	2	3	4	486
45°	836	11	1	3	4	633
55°	536	2	1	3	4	456
65°	46	0	1	3	4	84
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°	9.1	9.1	9.3	9.3	9.1	9.3	9.3	9.3	9.0	8.8	8.4
5°	9.5	9.5	9.5	9.7	9.5	9.5	9.3	9.1	8.8	8.2	8.0
7.5°	9.9	9.9	9.7	9.9	9.7	9.7	9.3	9.0	8.4	7.8	7.4
10°	10.3	10.3	10.1	10.1	9.9	9.9	9.1	8.6	7.6	7.0	6.8
12.5°	11.5	11.5	11.3	11.1	10.7	10.5	9.0	8.0	6.8	6.2	6.0
15°	14.8	14.6	14.2	13.6	12.6	12.5	9.0	7.4	6.2	5.6	5.6
17.5°	20.2	20.0	19.5	17.9	16.2	15.6	9.0	6.6	5.4	5.1	5.1
20°	36.2	34.6	31.7	27.8	23.7	21.6	9.5	5.8	4.7	4.5	4.7
21°	47.3	45.7	42.0	35.6	28.4	26.1	9.9	5.6	4.5	4.3	4.7
22°	64.4	62.7	55.1	46.3	36.0	31.9	10.1	5.3	4.1	4.1	4.5
23°	89.9	87.0	74.1	60.1	44.9	39.1	10.5	5.1	3.9	4.1	4.3
24°	117.7	115.2	100.6	79.6	57.4	49.0	10.9	4.9	3.7	3.7	4.1
25°	162.1	159.2	133.3	100.4	72.8	59.0	11.5	4.5	3.5	3.5	4.1
26°	219.5	206.1	171.6	129.4	89.7	73.9	12.1	4.3	3.3	3.5	3.9
27°	274.0	262.9	224.2	166.0	110.9	90.9	12.8	4.1	3.1	3.3	3.9
28°	345.6	330.0	281.2	210.0	139.7	109.9	13.6	3.9	2.9	3.3	3.7
29°	425.8	404.0	345.0	259.4	172.2	131.3	14.4	3.7	2.7	3.1	3.7
30°	493.1	472.6	413.7	318.0	209.6	159.6	15.2	3.5	2.5	3.1	3.7
31°	572.1	541.1	469.7	367.6	241.7	187.8	16.0	3.1	2.3	2.9	3.5
32°	636.1	614.5	538.6	423.6	283.9	218.9	16.5	2.9	2.3	2.9	3.5
33°	698.0	669.0	595.6	477.3	322.0	250.8	17.1	2.7	2.1	2.7	3.5
34°	757.1	730.5	649.5	520.7	358.0	281.2	17.5	2.3	2.1	2.7	3.3
35°	809.3	778.3	697.0	563.1	395.0	308.8	17.5	2.1	1.9	2.5	3.3
36°	843.1	821.0	738.3	605.0	428.5	335.1	17.5	1.9	1.8	2.5	3.1
37°	872.1	846.2	771.3	637.1	453.2	356.1	17.5	1.8	1.8	2.5	3.1
38°	884.0	861.8	794.1	665.5	476.3	377.5	17.3	1.6	1.6	2.3	3.1
39°	888.7	868.8	811.2	685.9	493.5	391.9	16.9	1.4	1.6	2.3	3.1
40°	882.6	867.7	820.0	699.1	507.1	402.4	16.3	1.2	1.4	2.3	3.1
42.5°	857.7	847.8	818.0	712.4	518.8	410.2	14.2	0.8	1.4	2.1	3.1
45°	835.5	824.6	798.4	698.6	503.6	394.8	10.7	0.4	1.4	2.1	3.1
47.5°	792.5	785.7	765.1	663.3	470.3	360.2	7.6	0.2	1.2	1.9	2.9
50°	706.3	699.9	672.7	576.0	404.5	304.5	5.4	0.2	1.0	1.9	2.9
52.5°	629.1	622.3	583.2	478.9	310.8	223.2	3.5	0.2	1.0	1.9	2.9
55°	535.7	523.8	472.5	363.5	220.3	149.6	2.5	0.2	1.0	1.8	2.9
57.5°	396.6	379.2	333.3	247.9	126.9	81.1	1.4	0.2	1.0	1.8	2.9
60°	269.7	259.4	208.6	130.8	54.1	34.2	0.6	0.2	1.0	1.8	2.7
62.5°	163.5	150.4	104.9	55.7	23.4	15.6	0.0	0.4	1.0	1.8	2.7
65°	46.5	41.3	27.4	12.6	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	1.9
77.5°	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.6	0.8	1.2	1.9
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°	6.2	6.2
15°	5.6	5.8
17.5°	5.3	5.4
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°	1.9	1.9
85°	1.4	1.6
87.5°	0.8	0.8
90°	0.0	0.0

(END OF REPORT)