

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: P1345182

Luminaire Tested: P3A13R30B2750DE010 E3A451WMH_2700K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345182
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: P3A13R30B2750DE010 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

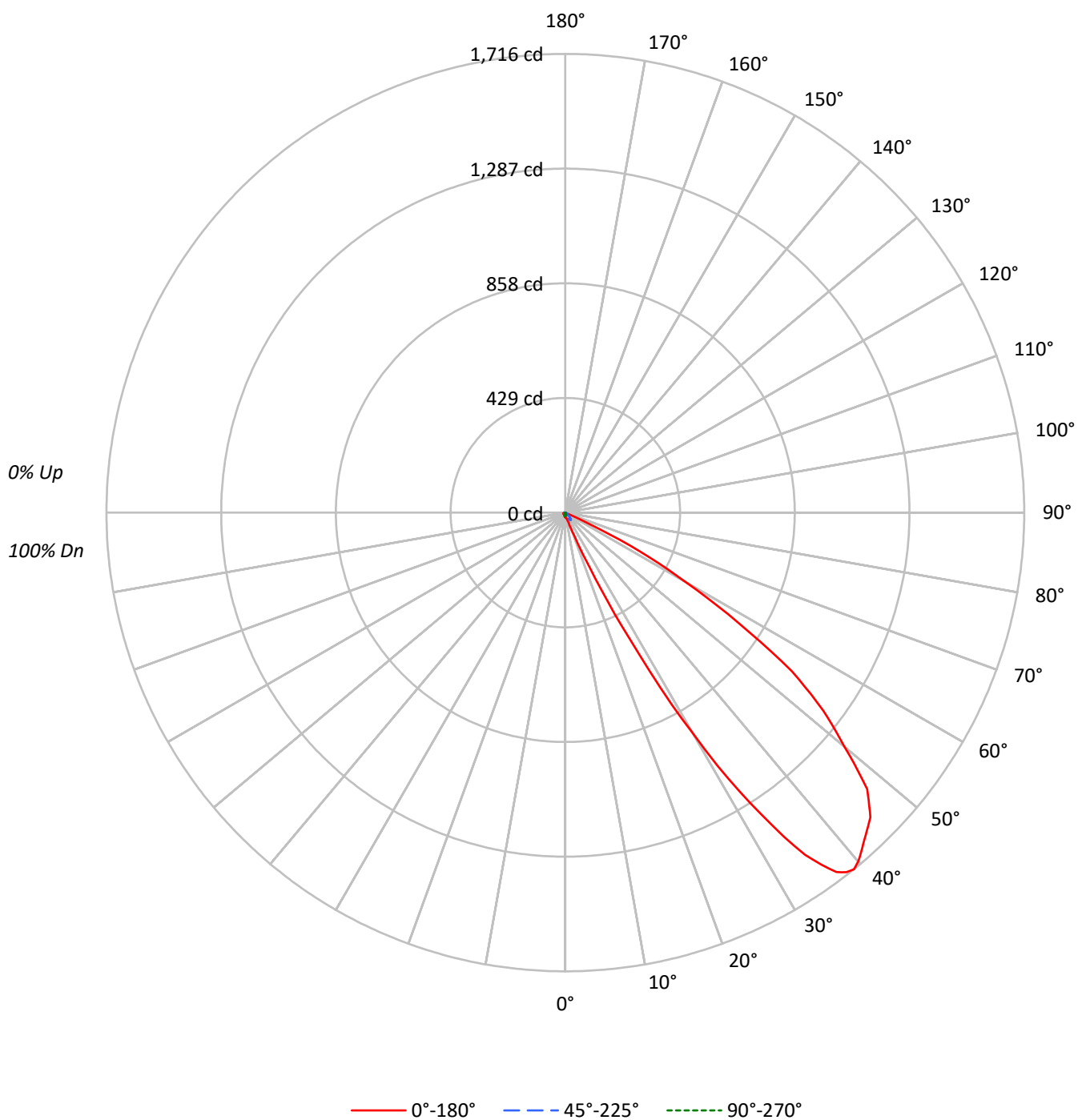
Lumens per Lamp: N/A
Luminaire Lumens: 446.0 lumens
Efficiency: N/A
Efficacy: 23.4 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 19.1
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°	3794	3794	3794	3794	3794
5°	4050	3962	3720	3390	3302
10°	4431	3941	3273	2917	2850
15°	6493	3927	2724	2474	2565
20°	16311	4294	2100	2100	2357
25°	75730	5371	1645	1911	2178
30°	241050	7419	1241	1798	2178
35°	418269	9048	1017	1713	2222
40°	487800	9046	744	1718	2261
45°	500269	6419	806	1861	2450
50°	465247	3582	648	1910	2831
55°	395417	1873	726	2141	3173
60°	228359	482	833	2324	3465
65°	46594	0	986	2750	3891
70°	705	256	1218	3142	4552
75°	678	339	1271	3219	5422
80°	505	505	1894	3788	6188
85°	0	1006	3774	3774	7548

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 500269 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.6	0.4
10°-20°	4.5	1.0
20°-30°	25.7	5.8
30°-40°	120.1	26.9
40°-50°	169.9	38.1
50°-60°	104.5	23.4
60°-70°	15.9	3.6
70°-80°	2.5	0.6
80°-90°	1.3	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°	31.8	7.1
0°-40°	151.9	34.1
0°-60°	426.3	95.6
0°-90°	446.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	446.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	17	17	17	17	17	
5°	18	18	17	15	15	2
15°	29	17	12	11	11	10
25°	313	22	7	8	9	193
35°	1562	34	4	6	8	938
45°	1613	21	3	6	8	1223
55°	1034	5	2	6	8	880
65°	90	0	2	5	8	163
75°	1	0	2	4	6	1
85°	0	0	2	2	3	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°	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
2.5°	17.7	17.7	18.0	18.0	17.7	18.0	18.0	18.0	17.3	16.9	16.2
5°	18.4	18.4	18.4	18.8	18.4	18.4	18.0	17.7	16.9	15.8	15.4
7.5°	19.2	19.2	18.8	19.2	18.8	18.8	18.0	17.3	16.2	15.0	14.3
10°	19.9	19.9	19.5	19.5	19.2	19.2	17.7	16.5	14.7	13.5	13.1
12.5°	22.2	22.2	21.8	21.4	20.7	20.3	17.3	15.4	13.1	12.0	11.6
15°	28.6	28.2	27.4	26.3	24.4	24.0	17.3	14.3	12.0	10.9	10.9
17.5°	39.1	38.7	37.6	34.6	31.2	30.1	17.3	12.8	10.5	9.8	9.8
20°	69.9	66.9	61.2	53.7	45.8	41.7	18.4	11.3	9.0	8.6	9.0
21°	91.3	88.3	81.1	68.8	54.9	50.3	19.2	10.9	8.6	8.3	9.0
22°	124.4	121.0	106.3	89.4	69.5	61.6	19.5	10.1	7.9	7.9	8.6
23°	173.6	167.9	143.1	116.1	86.8	75.5	20.3	9.8	7.5	7.9	8.3
24°	227.3	222.4	194.2	153.7	110.8	94.7	21.0	9.4	7.1	7.1	7.9
25°	313.0	307.3	257.3	193.9	140.5	113.8	22.2	8.6	6.8	6.8	7.9
26°	423.8	397.9	331.4	249.8	173.2	142.8	23.3	8.3	6.4	6.8	7.5
27°	529.0	507.6	432.8	320.5	214.1	175.4	24.8	7.9	6.0	6.4	7.5
28°	667.2	637.2	542.9	405.4	269.7	212.3	26.3	7.5	5.6	6.4	7.1
29°	822.0	779.9	666.1	500.8	332.5	253.6	27.8	7.1	5.3	6.0	7.1
30°	952.0	912.6	798.7	613.9	404.6	308.1	29.3	6.8	4.9	6.0	7.1
31°	1104.5	1044.8	906.9	709.7	466.6	362.5	30.8	6.0	4.5	5.6	6.8
32°	1228.1	1186.4	1039.9	817.9	548.1	422.7	31.9	5.6	4.5	5.6	6.8
33°	1347.6	1291.6	1150.0	921.6	621.8	484.3	33.1	5.3	4.1	5.3	6.8
34°	1461.8	1410.3	1254.1	1005.4	691.3	542.9	33.8	4.5	4.1	5.3	6.4
35°	1562.5	1502.8	1345.7	1087.3	762.7	596.2	33.8	4.1	3.8	4.9	6.4
36°	1627.9	1585.0	1425.4	1168.0	827.3	646.9	33.8	3.8	3.4	4.9	6.0
37°	1683.8	1633.9	1489.2	1230.0	875.0	687.5	33.8	3.4	3.4	4.9	6.0
38°	1706.8	1663.9	1533.2	1284.9	919.7	728.8	33.4	3.0	3.0	4.5	6.0
39°	1715.8	1677.5	1566.3	1324.3	952.8	756.6	32.7	2.6	3.0	4.5	6.0
40°	1704.1	1675.2	1583.2	1349.9	979.1	776.9	31.6	2.3	2.6	4.5	6.0
42.5°	1656.0	1636.9	1579.4	1375.4	1001.6	792.0	27.4	1.5	2.6	4.1	6.0
45°	1613.2	1592.2	1541.5	1348.7	972.3	762.3	20.7	0.8	2.6	4.1	6.0
47.5°	1530.2	1517.0	1477.2	1280.7	908.0	695.4	14.7	0.4	2.3	3.8	5.6
50°	1363.8	1351.4	1298.8	1112.0	781.1	588.0	10.5	0.4	1.9	3.8	5.6
52.5°	1214.6	1201.5	1125.9	924.6	600.0	430.9	6.8	0.4	1.9	3.8	5.6
55°	1034.3	1011.4	912.2	701.8	425.3	288.9	4.9	0.4	1.9	3.4	5.6
57.5°	765.7	732.2	643.6	478.6	245.0	156.7	2.6	0.4	1.9	3.4	5.6
60°	520.7	500.8	402.7	252.5	104.4	66.1	1.1	0.4	1.9	3.4	5.3
62.5°	315.6	290.4	202.5	107.4	45.1	30.1	0.0	0.8	1.9	3.4	5.3
65°	89.8	79.6	53.0	24.4	12.8	9.8	0.0	0.8	1.9	3.4	5.3
67.5°	3.0	3.0	3.0	2.6	1.9	1.9	0.4	0.8	1.9	3.4	4.9
70°	1.1	1.1	1.1	0.8	0.8	0.4	0.4	0.8	1.9	3.0	4.9
72.5°	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.8	1.5	2.6	4.5
75°	0.8	0.8	0.8	0.4	0.4	0.4	0.4	1.1	1.5	2.6	3.8
77.5°	0.8	0.8	0.8	0.4	0.4	0.4	0.4	1.1	1.5	2.3	3.8
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1	1.5	2.3	3.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	0.4	0.4	0.4	0.0	0.0	0.0	0.4	1.1	1.5	1.5	2.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.1	1.5	1.1	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.1	1.1	1.1	0.8
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°	17.3	17.3
2.5°	16.2	16.2
5°	15.0	15.0
7.5°	13.9	13.9
10°	12.8	12.8
12.5°	12.0	12.0
15°	10.9	11.3
17.5°	10.1	10.5
20°	9.8	10.1
21°	9.8	10.1
22°	9.4	9.8
23°	9.4	9.8
24°	9.0	9.4
25°	8.6	9.0
26°	8.6	9.0
27°	8.6	9.0
28°	8.3	9.0
29°	8.3	8.6
30°	8.3	8.6
31°	7.9	8.6
32°	7.9	8.6
33°	7.9	8.3
34°	7.5	8.3
35°	7.5	8.3
36°	7.5	8.3
37°	7.5	7.9
38°	7.5	8.3
39°	7.5	7.9
40°	7.5	7.9
42.5°	7.5	7.9
45°	7.5	7.9
47.5°	7.5	8.3
50°	7.5	8.3
52.5°	7.5	8.3
55°	7.5	8.3
57.5°	7.5	7.9
60°	7.5	7.9
62.5°	7.1	7.9
65°	7.1	7.5
67.5°	7.1	7.5
70°	6.8	7.1
72.5°	6.4	6.8
75°	5.6	6.4
77.5°	5.3	5.6
80°	4.5	4.9

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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	3.8	3.8
85°	2.6	3.0
87.5°	1.5	1.5
90°	0.0	0.0

(END OF REPORT)