

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: P1334571

Luminaire Tested: P3A02R20B2750DE010 E3A451GPH_5000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334571
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-74)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R20B2750DE010 E3A451GPH_5000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R20 optic, 5000K CCT AND, 80CRI , E3A451GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

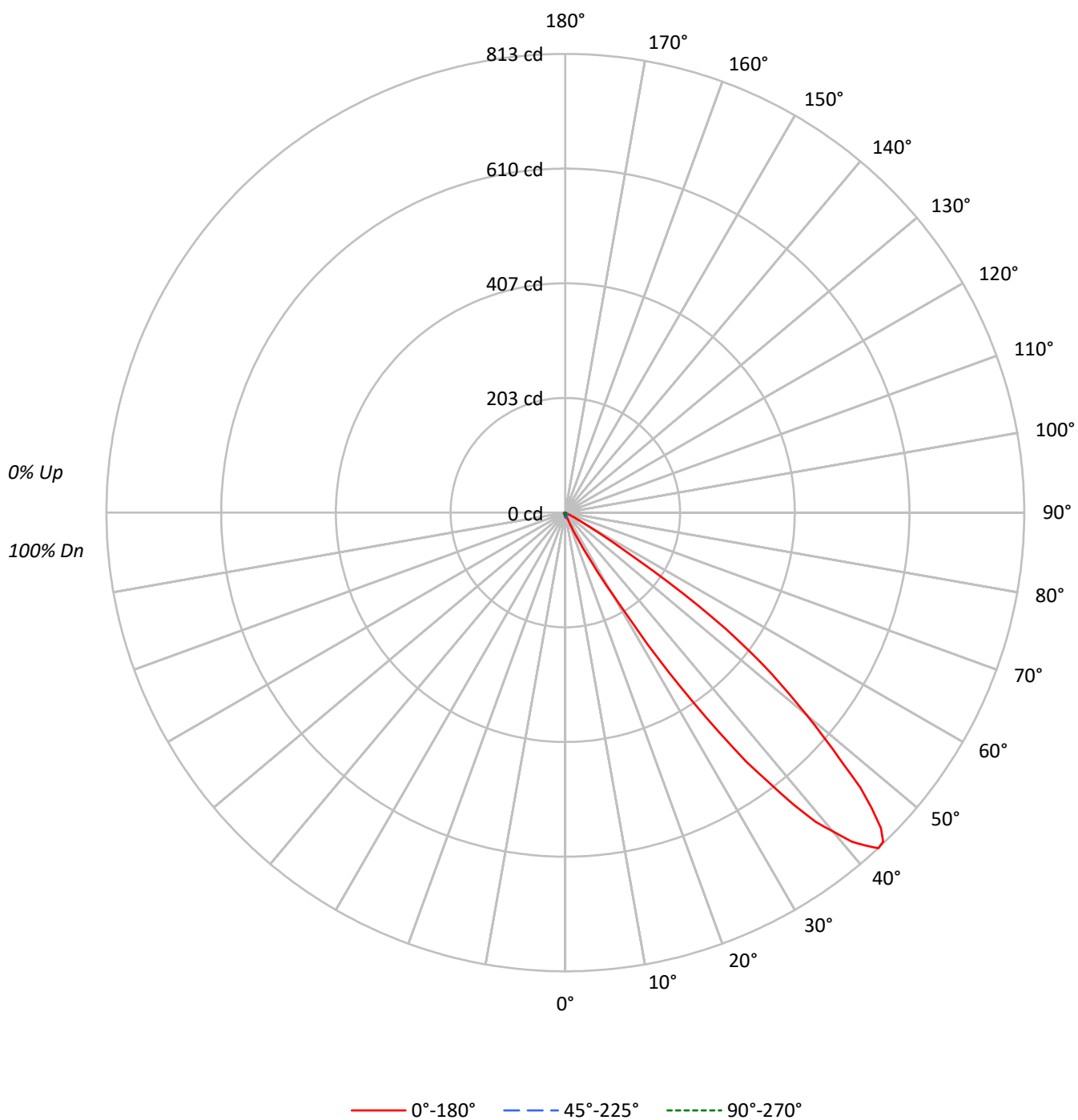
Lumens per Lamp: N/A
Luminaire Lumens: 113.0 lumens
Efficiency: N/A
Efficacy: 39.0 lumens/watt
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.13
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	101	97	100	97	94	96	94	92	92	91	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42		
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35		
7	62	48	39	32	60	47	38	32	46	38	32	44	37	32	43	36	31	29		
8	57	42	33	27	55	42	33	27	40	33	27	39	32	27	38	31	27	25		
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21		
10	48	34	25	20	47	33	25	20	32	25	19	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1732	1732	1732	1732	1732
5°	2003	1871	1607	1409	1365
10°	1982	1692	1269	1091	1069
15°	1725	1294	931	863	908
20°	2567	1097	700	747	817
25°	11105	1137	532	677	798
30°	41981	1367	456	633	785
35°	127234	1660	428	642	830
40°	210995	1632	372	687	887
45°	245235	1116	341	713	961
50°	190356	614	341	751	1092
55°	110180	421	306	841	1185
60°	18639	88	263	877	1316
65°	1453	0	311	986	1505
70°	192	0	385	1090	1731
75°	169	85	424	1271	1949
80°	126	126	631	1389	2273
85°	252	252	1006	1258	2516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 245235 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.7	0.6
10°-20°	1.4	1.3
20°-30°	4.5	4.0
30°-40°	28.8	25.5
40°-50°	52.7	46.7
50°-60°	21.7	19.2
60°-70°	1.8	1.6
70°-80°	0.9	0.8
80°-90°	0.4	0.4
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°	6.6	5.8
0°-40°	35.4	31.4
0°-60°	109.8	97.2
0°-90°	113.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	113.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8	8	8	8	8	
5°	9	8	7	6	6	1
15°	8	6	4	4	4	2
25°	46	5	2	3	3	30
35°	475	6	2	2	3	301
45°	791	4	1	2	3	568
55°	288	1	1	2	3	252
65°	3	0	1	2	3	9
75°	0	0	0	2	2	0
85°	0	0	0	0	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
2.5°	8.6	8.6	8.6	8.5	8.5	8.6	8.5	8.5	8.5	8.5	8.4
5°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.0	9.0	8.9	8.5
7.5°	9.3	9.3	9.3	9.3	9.2	9.2	9.2	9.2	9.1	9.0	8.3
10°	8.9	8.9	8.9	8.8	8.8	8.8	8.7	8.7	8.6	8.5	7.6
12.5°	8.1	8.1	8.1	8.1	8.0	8.0	7.9	7.9	7.8	7.6	6.7
15°	7.6	7.6	7.6	7.5	7.5	7.4	7.3	7.2	7.1	6.9	5.7
17.5°	8.3	8.3	8.2	8.2	8.0	7.8	7.6	7.3	7.1	6.8	5.1
20°	11.0	11.2	10.7	10.4	10.2	9.6	9.2	8.7	8.3	7.8	4.7
22.5°	22.3	21.9	21.1	20.0	18.6	17.4	15.3	13.6	12.4	10.8	4.6
25°	45.9	45.5	43.4	41.7	37.5	34.2	29.6	25.9	22.1	18.4	4.7
27.5°	87.2	84.3	83.8	76.0	70.1	61.6	52.8	45.3	38.5	31.0	5.0
30°	165.8	162.5	150.9	139.2	123.2	105.0	87.7	71.6	58.1	45.9	5.4
31°	210.4	213.6	200.0	176.5	152.8	129.6	105.9	85.4	68.0	52.8	5.6
32°	276.5	262.6	248.3	224.2	189.8	160.0	130.3	100.8	77.8	60.2	5.8
33°	339.1	330.9	309.0	279.0	237.7	195.9	157.4	118.9	89.9	69.2	5.9
34°	405.8	396.7	379.0	335.9	290.5	235.9	184.5	139.9	104.4	78.1	6.1
35°	475.3	471.5	437.3	399.9	344.2	278.2	217.1	162.8	118.5	86.1	6.2
36°	545.3	533.0	506.2	451.6	393.4	317.4	251.3	184.1	132.8	95.7	6.2
37°	598.0	595.2	559.7	506.5	438.2	359.3	280.8	207.8	147.3	103.9	6.2
38°	656.1	645.1	609.1	555.0	480.2	397.6	311.7	228.4	161.0	111.3	6.1
39°	705.0	688.8	652.5	598.9	516.9	426.7	336.2	248.4	173.1	117.4	5.9
40°	737.1	725.8	687.9	627.7	550.3	454.2	361.1	264.8	182.1	122.1	5.7
41°	772.5	753.8	716.3	655.7	574.5	478.4	376.7	275.7	189.1	125.2	5.5
42°	793.6	778.3	733.8	674.5	591.8	492.2	389.4	284.0	193.4	126.8	5.1
43°	813.3	792.5	749.2	685.5	603.3	502.0	395.3	287.8	194.3	126.8	4.6
44°	810.7	790.9	746.0	687.0	605.8	504.8	397.7	287.9	192.8	125.2	4.0
45°	790.8	771.2	730.7	674.0	596.7	499.2	392.8	283.6	188.7	122.4	3.6
46°	754.4	734.9	703.9	652.3	579.7	486.5	381.4	274.4	181.8	118.0	3.2
47°	714.8	695.8	664.0	617.4	550.7	463.7	365.0	261.4	172.1	111.5	2.9
48°	657.3	645.4	613.6	573.8	510.5	428.2	336.1	240.3	159.2	103.1	2.4
49°	606.6	594.0	566.1	523.3	458.0	386.8	301.6	214.6	142.3	93.8	2.1
50°	558.0	547.1	521.3	473.0	410.7	336.7	255.0	182.2	121.1	82.2	1.8
51°	510.6	502.4	476.1	431.7	368.4	298.3	220.9	151.8	100.0	68.2	1.7
52°	462.9	461.9	433.4	388.5	327.3	260.0	187.8	128.1	84.8	57.2	1.6
53°	411.6	405.4	380.5	340.1	281.4	220.0	159.2	108.0	73.1	48.7	1.4
54°	353.2	346.3	319.5	283.1	229.9	180.2	128.3	87.3	60.8	41.2	1.3
55°	288.2	276.4	257.0	219.6	179.6	137.5	99.1	69.1	48.6	34.3	1.1
56°	218.7	206.9	195.9	168.4	131.8	102.6	73.8	53.0	38.0	27.1	1.0
57°	152.1	151.4	133.5	112.4	88.1	69.9	50.5	37.4	26.9	21.0	0.7
58°	98.7	95.4	83.9	71.7	57.7	43.6	32.5	25.4	18.3	14.3	0.6
59°	69.1	62.5	56.4	47.8	36.3	27.5	20.9	16.2	12.6	10.0	0.4
60°	42.5	41.1	37.0	29.1	23.6	19.4	15.6	12.0	9.2	7.1	0.2
62.5°	12.1	12.3	11.2	9.9	8.5	7.3	6.6	5.6	4.7	3.7	0.0
65°	2.8	2.7	2.9	2.7	2.4	2.4	2.1	1.9	1.7	1.6	0.0



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	0.8	0.8	0.7	0.7	0.7	0.6	0.6	0.5	0.5	0.4	0.0
70°	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.0
72.5°	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
77.5°	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1
80°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
82.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
85°	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.0	0.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	7.9	7.9	7.9	7.9	7.9	7.9
2.5°	8.2	7.8	7.4	7.1	7.0	7.0
5°	8.0	7.3	6.7	6.4	6.2	6.2
7.5°	7.3	6.6	5.9	5.6	5.5	5.5
10°	6.6	5.7	5.1	4.9	4.9	4.8
12.5°	5.7	4.9	4.5	4.4	4.4	4.4
15°	4.8	4.1	3.8	3.8	3.9	4.0
17.5°	4.0	3.4	3.3	3.5	3.7	3.7
20°	3.4	3.0	3.0	3.2	3.4	3.5
22.5°	2.9	2.5	2.7	3.0	3.3	3.4
25°	2.5	2.2	2.4	2.8	3.1	3.3
27.5°	2.1	2.0	2.2	2.7	3.1	3.2
30°	1.8	1.8	2.1	2.5	3.0	3.1
31°	1.7	1.7	2.1	2.5	3.0	3.1
32°	1.6	1.7	2.0	2.5	3.0	3.1
33°	1.5	1.6	2.0	2.4	3.0	3.1
34°	1.4	1.6	2.0	2.4	3.0	3.1
35°	1.3	1.6	2.0	2.4	3.0	3.1
36°	1.2	1.5	1.9	2.4	3.0	3.1
37°	1.1	1.5	1.9	2.4	3.0	3.1
38°	1.0	1.4	1.9	2.4	3.0	3.1
39°	1.0	1.4	1.8	2.4	2.9	3.1
40°	0.8	1.3	1.8	2.4	2.9	3.1
41°	0.7	1.3	1.8	2.3	2.9	3.1
42°	0.6	1.2	1.7	2.3	2.9	3.1
43°	0.5	1.2	1.7	2.3	2.9	3.1
44°	0.5	1.1	1.7	2.3	2.9	3.1
45°	0.4	1.1	1.7	2.3	2.9	3.1
46°	0.3	1.1	1.7	2.3	2.9	3.1
47°	0.3	1.0	1.6	2.3	2.9	3.1
48°	0.2	1.0	1.6	2.3	2.9	3.1
49°	0.2	1.0	1.6	2.3	2.9	3.2
50°	0.2	1.0	1.6	2.2	2.9	3.2
51°	0.1	1.0	1.6	2.2	2.9	3.2
52°	0.1	1.0	1.5	2.2	3.0	3.2
53°	0.1	0.8	1.5	2.2	3.0	3.2
54°	0.1	0.8	1.5	2.2	3.0	3.1
55°	0.1	0.8	1.5	2.2	2.9	3.1
56°	0.1	0.7	1.5	2.2	2.9	3.1
57°	0.1	0.7	1.4	2.1	2.9	3.0
58°	0.1	0.7	1.4	2.1	2.9	3.0
59°	0.1	0.7	1.4	2.1	2.8	3.0
60°	0.2	0.6	1.3	2.0	2.8	3.0
62.5°	0.2	0.6	1.3	2.0	2.7	2.9
65°	0.2	0.6	1.2	1.9	2.7	2.9



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.2	0.5	1.1	1.8	2.5	2.8
70°	0.2	0.6	1.1	1.7	2.4	2.7
72.5°	0.3	0.5	1.0	1.6	2.3	2.5
75°	0.3	0.5	1.0	1.5	2.2	2.3
77.5°	0.4	0.5	0.8	1.3	2.0	2.1
80°	0.4	0.5	0.7	1.1	1.7	1.8
82.5°	0.4	0.5	0.5	0.8	1.3	1.4
85°	0.3	0.4	0.4	0.5	0.8	1.0
87.5°	0.3	0.4	0.3	0.2	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)