

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: P1334894

Luminaire Tested: P3A02R25B2750DE010 E3A451GPH_4000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334894
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-75)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R25B2750DE010 E3A451GPH_4000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R25 optic, 4000K CCT AND, 80CRI , E3A451GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

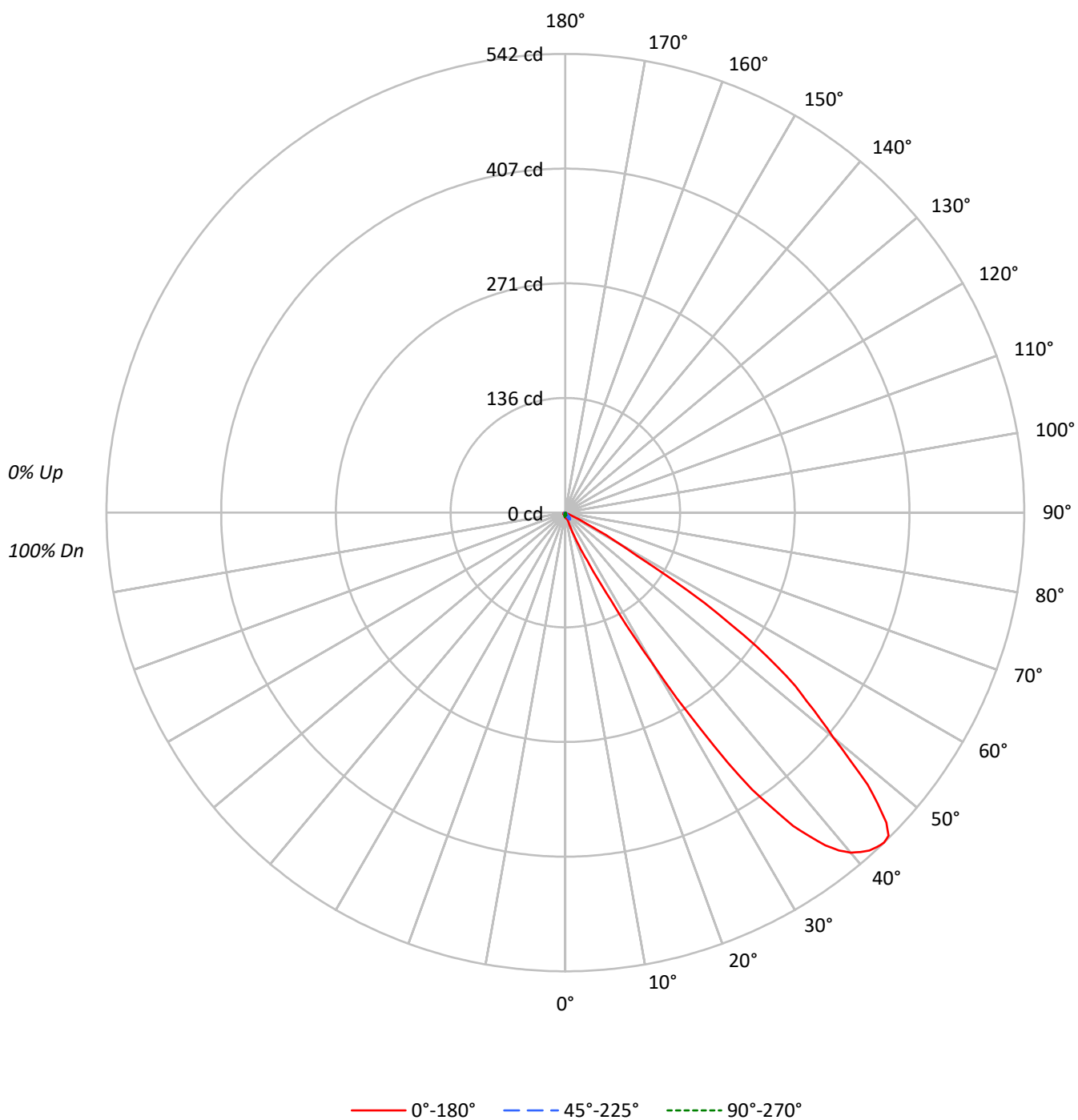
Lumens per Lamp: N/A
Luminaire Lumens: 113.0 lumens
Efficiency: N/A
Efficacy: 39.0 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			0
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	64	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	39	52	44	38	50	43	38	48	42	37	35		
7	62	48	39	32	60	47	39	32	46	38	32	44	37	32	43	36	32	29		
8	57	43	34	27	55	42	33	27	40	33	27	39	32	27	38	32	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	20	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1272	1272	1272	1272	1272
5°	1453	1387	1233	1101	1079
10°	1447	1314	1047	913	913
15°	1612	1135	817	772	817
20°	5670	1120	630	653	723
25°	16283	1428	508	605	702
30°	51957	2203	405	582	709
35°	113823	2570	348	562	723
40°	150138	2347	286	573	773
45°	167428	1644	279	620	837
50°	140959	853	273	648	921
55°	105363	344	268	726	1032
60°	32629	88	263	789	1140
65°	2802	0	311	830	1245
70°	192	64	321	962	1410
75°	169	85	424	1017	1610
80°	126	126	631	1137	1894
85°	252	252	1006	1258	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 167428 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.5	0.5
10°-20°	1.3	1.2
20°-30°	6.3	5.5
30°-40°	30.1	26.6
40°-50°	47.2	41.7
50°-60°	24.2	21.4
60°-70°	2.3	2.0
70°-80°	0.8	0.7
80°-90°	0.4	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°	8.1	7.2
0°-40°	38.2	33.8
0°-60°	109.6	97.0
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°	6	6	6	6	6	
5°	7	6	6	5	5	1
15°	7	5	4	3	4	3
25°	67	6	2	2	3	42
35°	425	10	1	2	3	258
45°	540	5	1	2	3	395
55°	276	1	1	2	3	229
65°	5	0	1	2	2	17
75°	0	0	0	1	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°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
2.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.2	6.2	6.3	6.2	6.2
5°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.5	6.5	6.5	6.3
7.5°	6.7	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.5	6.5	6.2
10°	6.5	6.5	6.5	6.5	6.4	6.4	6.4	6.3	6.3	6.3	5.9
12.5°	6.5	6.5	6.5	6.5	6.4	6.4	6.3	6.3	6.2	6.1	5.4
15°	7.1	7.1	7.1	7.0	6.9	6.8	6.7	6.6	6.5	6.3	5.0
17.5°	10.3	10.0	9.9	9.5	9.0	8.6	8.2	7.8	7.4	7.1	4.8
20°	24.3	24.2	23.7	22.5	21.2	19.7	18.2	16.5	14.1	12.5	4.8
22.5°	42.1	41.5	40.6	39.7	37.4	34.7	31.9	28.7	25.7	22.4	5.1
25°	67.3	68.7	65.7	63.3	59.4	54.5	49.2	44.8	39.3	34.1	5.9
27.5°	117.0	117.9	112.1	104.3	95.1	84.8	74.9	67.4	58.1	49.5	7.4
30°	205.2	206.1	196.3	179.8	160.7	143.9	121.1	101.1	82.7	68.5	8.7
31°	256.2	249.2	237.8	221.7	197.6	172.2	144.9	120.7	97.4	78.8	9.0
32°	300.4	299.8	286.5	262.2	238.0	206.6	172.7	141.2	112.7	89.1	9.3
33°	352.6	348.6	329.8	307.0	274.8	243.3	199.6	163.6	128.3	100.6	9.5
34°	394.5	383.7	376.0	349.8	315.9	275.7	228.9	187.2	147.8	111.8	9.6
35°	425.2	422.9	407.8	383.4	348.9	307.9	260.5	211.8	164.1	124.7	9.6
36°	457.7	450.7	435.9	413.9	380.2	337.8	284.7	233.1	183.1	136.3	9.5
37°	478.1	473.9	459.3	436.5	403.6	363.0	311.7	255.6	198.2	148.0	9.3
38°	499.1	490.6	476.2	454.4	422.1	384.0	331.3	272.9	212.1	158.2	9.0
39°	513.6	504.8	490.1	468.4	436.8	399.0	346.8	287.6	224.2	165.9	8.7
40°	524.5	516.1	501.2	478.9	447.7	410.9	359.8	300.6	234.4	172.5	8.2
41°	531.3	523.4	508.6	486.4	455.1	417.6	368.2	309.1	241.2	177.0	7.7
42°	537.0	528.9	513.8	491.1	459.7	423.4	373.4	314.4	245.9	179.3	7.3
43°	540.1	532.1	517.4	494.2	462.5	426.1	376.2	316.9	247.5	179.0	6.6
44°	541.9	533.6	518.8	495.6	463.7	426.8	376.4	316.4	246.4	176.6	6.0
45°	539.9	531.7	517.4	494.2	461.6	424.6	374.4	313.7	242.2	171.9	5.3
46°	527.0	520.7	507.5	486.2	455.0	419.0	369.3	308.6	235.8	166.2	4.5
47°	504.2	499.2	486.4	470.6	442.4	408.8	360.0	298.7	226.7	157.5	3.6
48°	480.5	473.0	461.2	445.0	421.1	390.4	344.6	284.3	213.0	146.2	3.2
49°	445.4	441.0	430.6	412.5	392.7	365.6	322.8	265.8	196.2	133.8	2.8
50°	413.2	410.2	395.6	382.2	361.3	336.0	293.2	241.4	175.3	118.5	2.5
51°	388.0	384.4	373.9	357.3	334.9	305.6	265.3	209.8	151.3	100.3	2.0
52°	361.8	359.8	350.4	333.3	311.3	282.1	238.2	183.0	128.1	84.8	1.6
53°	340.3	337.4	326.0	310.7	287.0	256.7	208.7	158.0	108.5	71.3	1.4
54°	309.0	307.8	300.4	284.5	258.7	225.8	182.1	133.0	90.5	60.5	1.2
55°	275.6	271.7	264.2	251.6	227.9	197.2	151.2	110.3	73.2	50.9	0.9
56°	235.1	234.9	221.5	211.0	190.0	157.4	120.8	86.1	59.5	42.5	0.8
57°	196.3	190.0	177.2	166.8	144.2	119.4	89.7	64.5	46.5	34.4	0.6
58°	145.2	141.9	138.5	123.2	102.3	84.6	64.0	45.3	34.4	26.3	0.4
59°	98.5	98.4	94.5	82.8	70.8	52.7	40.0	30.8	23.7	19.3	0.3
60°	74.4	72.6	64.6	57.0	44.5	33.3	23.7	18.2	14.7	12.4	0.2
62.5°	26.1	27.0	23.8	19.7	15.0	12.3	9.4	7.7	6.3	5.1	0.0
65°	5.4	5.9	5.1	4.8	3.8	3.3	2.9	2.5	2.1	1.8	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°	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.1
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.1
72.5°	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	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	0.2	0.1	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	0.2
85°	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	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°	5.8	5.8	5.8	5.8	5.8	5.8
2.5°	6.1	5.9	5.6	5.5	5.4	5.4
5°	6.0	5.6	5.3	5.0	4.9	4.9
7.5°	5.7	5.2	4.8	4.6	4.5	4.4
10°	5.4	4.7	4.3	4.1	4.1	4.1
12.5°	4.8	4.2	3.8	3.7	3.8	3.8
15°	4.3	3.6	3.4	3.4	3.5	3.6
17.5°	3.7	3.2	3.0	3.1	3.2	3.3
20°	3.3	2.7	2.7	2.8	3.1	3.1
22.5°	2.9	2.4	2.4	2.7	2.9	3.0
25°	2.6	2.1	2.2	2.5	2.8	2.9
27.5°	2.2	1.8	2.0	2.4	2.7	2.8
30°	1.9	1.6	1.9	2.3	2.6	2.8
31°	1.8	1.5	1.9	2.2	2.6	2.8
32°	1.6	1.5	1.8	2.2	2.6	2.7
33°	1.5	1.4	1.8	2.2	2.6	2.7
34°	1.4	1.3	1.7	2.2	2.6	2.7
35°	1.2	1.3	1.7	2.1	2.5	2.7
36°	1.1	1.2	1.7	2.1	2.5	2.7
37°	1.0	1.2	1.6	2.1	2.5	2.7
38°	0.9	1.1	1.6	2.1	2.5	2.7
39°	0.8	1.1	1.5	2.1	2.5	2.7
40°	0.7	1.0	1.5	2.0	2.5	2.7
41°	0.7	1.0	1.5	2.0	2.5	2.7
42°	0.6	1.0	1.5	2.0	2.5	2.7
43°	0.5	0.9	1.5	2.0	2.5	2.7
44°	0.4	0.9	1.4	2.0	2.5	2.7
45°	0.4	0.9	1.4	2.0	2.5	2.7
46°	0.3	0.8	1.4	2.0	2.5	2.7
47°	0.2	0.8	1.4	1.9	2.5	2.7
48°	0.2	0.8	1.4	1.9	2.5	2.7
49°	0.2	0.8	1.3	1.9	2.5	2.7
50°	0.2	0.8	1.3	1.9	2.5	2.7
51°	0.1	0.7	1.3	1.9	2.5	2.7
52°	0.1	0.7	1.3	1.9	2.5	2.8
53°	0.1	0.7	1.3	1.9	2.5	2.7
54°	0.1	0.7	1.2	1.9	2.5	2.7
55°	0.1	0.7	1.2	1.9	2.5	2.7
56°	0.1	0.6	1.2	1.8	2.5	2.7
57°	0.2	0.6	1.2	1.8	2.5	2.6
58°	0.2	0.6	1.2	1.8	2.4	2.6
59°	0.2	0.6	1.2	1.8	2.4	2.6
60°	0.2	0.6	1.1	1.8	2.4	2.6
62.5°	0.2	0.6	1.1	1.7	2.3	2.5
65°	0.2	0.6	1.0	1.6	2.3	2.4



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.2	0.5	1.0	1.5	2.2	2.3
70°	0.3	0.5	0.9	1.5	2.1	2.2
72.5°	0.3	0.5	0.9	1.3	1.9	2.1
75°	0.3	0.5	0.8	1.2	1.8	1.9
77.5°	0.3	0.5	0.7	1.1	1.6	1.7
80°	0.4	0.5	0.6	0.9	1.4	1.5
82.5°	0.4	0.5	0.5	0.7	1.1	1.2
85°	0.3	0.4	0.4	0.5	0.7	0.8
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)