

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: P1334892

Luminaire Tested: P3A02R25B2750DE010 E3A451GPH_3000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334892
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_3000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R25 optic, 3000K CCT AND, 90CRI , E3A451GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

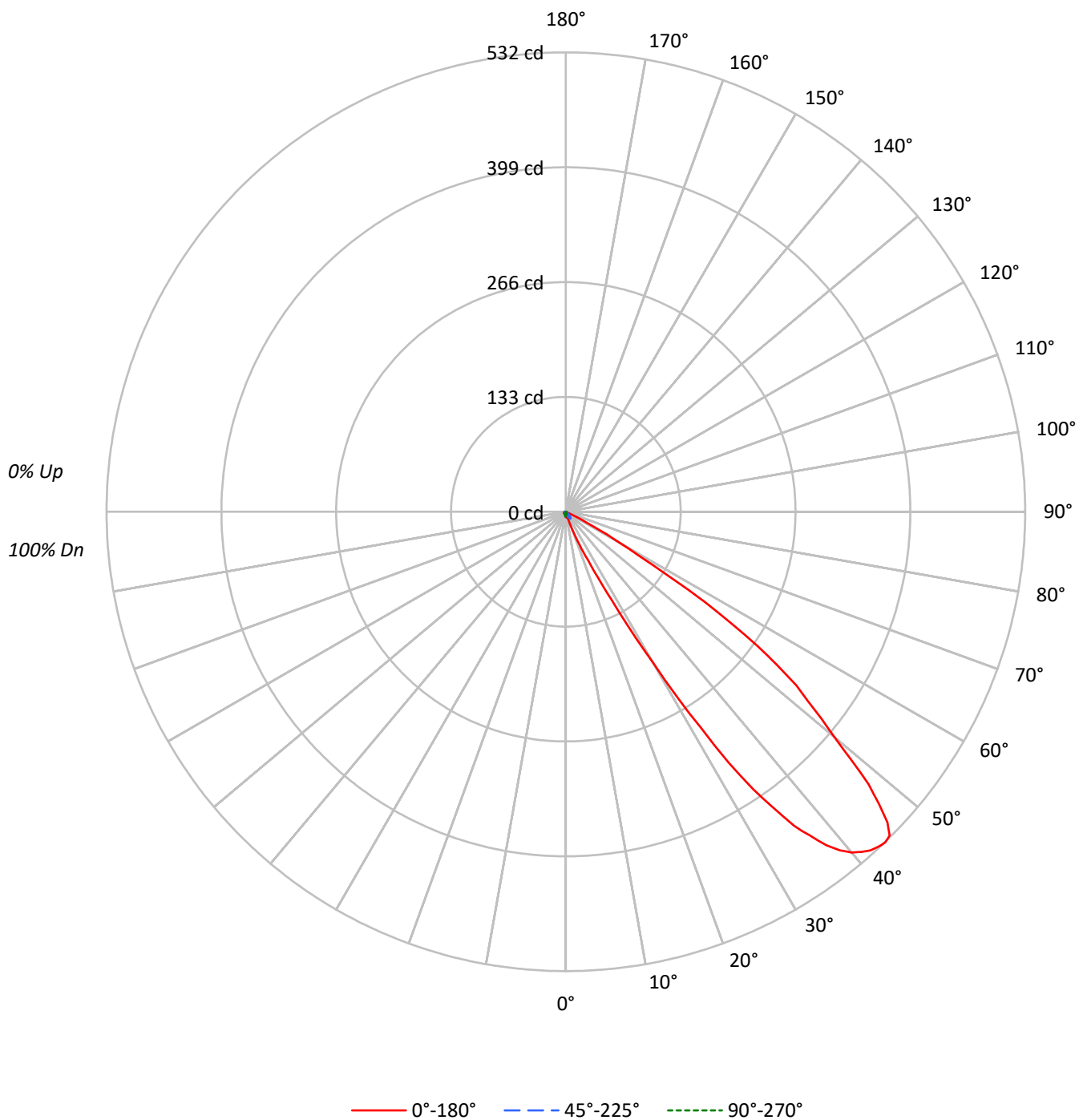
Lumens per Lamp: N/A
Luminaire Lumens: 111.0 lumens
Efficiency: N/A
Efficacy: 38.3 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1334892

CATALOG NUMBER: P3A02R25B2750DE010 E3A451GPH_3000K

Luminous Intensity Polar Plot



TEST NUMBER: P1334892

CATALOG NUMBER: P3A02R25B2750DE010 E3A451GPH_3000K

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°	1250	1250	1250	1250	1250
5°	1409	1365	1211	1079	1057
10°	1403	1291	1024	891	891
15°	1566	1112	795	749	795
20°	5554	1097	607	630	700
25°	15993	1403	508	581	677
30°	51046	2152	405	557	684
35°	111815	2543	348	562	696
40°	147476	2290	286	573	744
45°	164482	1613	279	620	806
50°	138435	819	273	648	887
55°	103528	344	268	726	994
60°	32059	88	263	789	1096
65°	2750	0	311	830	1193
70°	192	64	321	962	1346
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: 164482 cd/sqm

TEST NUMBER: P1334892

CATALOG NUMBER: P3A02R25B2750DE010 E3A451GPH_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.5	0.5
10°-20°	1.3	1.2
20°-30°	6.1	5.5
30°-40°	29.6	26.6
40°-50°	46.3	41.7
50°-60°	23.8	21.4
60°-70°	2.2	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°	7.9	7.2
0°-40°	37.5	33.8
0°-60°	107.6	96.9
0°-90°	111.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	111.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6	6	6	6	6	
5°	6	6	6	5	5	1
15°	7	5	4	3	4	3
25°	66	6	2	2	3	41
35°	418	10	1	2	3	254
45°	530	5	1	2	3	388
55°	271	1	1	2	3	225
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	

TEST NUMBER: P1334892

CATALOG NUMBER: P3A02R25B2750DE010 E3A451GPH_3000K

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
2.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.1	6.1	6.2	6.1	6.1
5°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.3	6.3	6.3	6.2
7.5°	6.5	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.3	6.3	6.1
10°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.2	6.2	6.2	5.8
12.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.2	6.2	6.1	6.0	5.3
15°	6.9	6.9	6.9	6.8	6.7	6.6	6.5	6.4	6.3	6.2	4.9
17.5°	10.2	9.9	9.8	9.4	8.9	8.4	8.0	7.6	7.2	6.9	4.7
20°	23.8	23.7	23.2	22.1	20.8	19.3	17.9	16.2	13.9	12.3	4.7
22.5°	41.3	40.7	39.9	39.0	36.7	34.1	31.4	28.2	25.2	22.0	5.0
25°	66.1	67.5	64.6	62.2	58.3	53.5	48.4	44.1	38.6	33.5	5.8
27.5°	115.0	115.8	110.1	102.5	93.4	83.3	73.6	66.2	57.0	48.6	7.2
30°	201.6	202.5	192.8	176.6	157.8	141.3	119.0	99.3	81.3	67.3	8.5
31°	251.6	244.8	233.5	217.8	194.1	169.2	142.3	118.6	95.7	77.4	8.9
32°	295.1	294.5	281.4	257.6	233.7	203.0	169.7	138.7	110.7	87.5	9.2
33°	346.4	342.5	324.0	301.5	270.0	239.0	196.0	160.7	126.0	98.8	9.4
34°	387.5	376.9	369.3	343.6	310.3	270.9	224.9	183.9	145.1	109.8	9.5
35°	417.7	415.4	400.6	376.6	342.7	302.4	255.9	208.1	161.2	122.5	9.5
36°	449.6	442.7	428.2	406.5	373.5	331.8	279.7	229.0	179.8	133.9	9.4
37°	469.6	465.5	451.2	428.8	396.5	356.6	306.2	251.0	194.7	145.3	9.2
38°	490.2	481.9	467.8	446.4	414.6	377.2	325.5	268.0	208.3	155.4	8.9
39°	504.5	495.9	481.5	460.2	429.1	392.0	340.7	282.5	220.3	162.9	8.5
40°	515.2	506.9	492.3	470.4	439.7	403.6	353.4	295.3	230.2	169.5	8.0
41°	521.9	514.2	499.6	477.8	447.1	410.2	361.7	303.6	237.0	173.9	7.5
42°	527.5	519.5	504.7	482.4	451.6	415.9	366.8	308.9	241.6	176.1	7.1
43°	530.6	522.7	508.2	485.5	454.3	418.5	369.5	311.3	243.1	175.8	6.4
44°	532.3	524.1	509.6	486.8	455.5	419.2	369.7	310.8	242.0	173.5	5.9
45°	530.4	522.3	508.2	485.5	453.4	417.1	367.8	308.2	237.9	168.9	5.2
46°	517.7	511.4	498.5	477.6	447.0	411.6	362.8	303.1	231.6	163.2	4.4
47°	495.3	490.3	477.8	462.3	434.6	401.6	353.6	293.4	222.7	154.7	3.5
48°	472.0	464.7	453.0	437.1	413.7	383.5	338.5	279.3	209.2	143.6	3.1
49°	437.5	433.2	422.9	405.2	385.7	359.2	317.1	261.1	192.7	131.5	2.7
50°	405.8	402.9	388.6	375.5	354.9	330.1	288.1	237.2	172.2	116.4	2.4
51°	381.1	377.6	367.3	351.0	329.0	300.2	260.6	206.1	148.7	98.6	2.0
52°	355.4	353.4	344.2	327.4	305.8	277.1	233.9	179.7	125.8	83.3	1.6
53°	334.3	331.4	320.2	305.2	281.9	252.2	205.0	155.2	106.6	70.0	1.4
54°	303.5	302.3	295.1	279.5	254.2	221.8	178.8	130.7	88.9	59.4	1.2
55°	270.8	266.9	259.5	247.1	223.9	193.7	148.6	108.3	71.9	50.0	0.9
56°	230.9	230.7	217.6	207.3	186.7	154.6	118.7	84.6	58.4	41.7	0.8
57°	192.8	186.7	174.1	163.8	141.6	117.3	88.1	63.4	45.7	33.8	0.6
58°	142.6	139.4	136.1	121.0	100.5	83.1	62.9	44.5	33.8	25.8	0.4
59°	96.8	96.7	92.8	81.4	69.5	51.8	39.3	30.3	23.2	18.9	0.3
60°	73.1	71.3	63.5	56.0	43.8	32.7	23.2	17.9	14.5	12.2	0.2
62.5°	25.6	26.6	23.3	19.3	14.7	12.1	9.3	7.5	6.2	5.0	0.0
65°	5.3	5.8	5.0	4.7	3.7	3.2	2.8	2.4	2.1	1.8	0.0



TEST NUMBER: P1334892

CATALOG NUMBER: P3A02R25B2750DE010 E3A451GPH_3000K

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

TEST NUMBER: P1334892

CATALOG NUMBER: P3A02R25B2750DE010 E3A451GPH_3000K

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	5.7	5.7	5.7	5.7	5.7	5.7
2.5°	6.0	5.8	5.5	5.4	5.3	5.3
5°	5.9	5.5	5.2	4.9	4.8	4.8
7.5°	5.6	5.1	4.7	4.5	4.4	4.3
10°	5.3	4.6	4.2	4.0	4.0	4.0
12.5°	4.7	4.1	3.7	3.6	3.7	3.7
15°	4.2	3.5	3.3	3.3	3.4	3.5
17.5°	3.6	3.1	2.9	3.0	3.1	3.2
20°	3.2	2.6	2.6	2.7	3.0	3.0
22.5°	2.8	2.3	2.3	2.6	2.8	2.9
25°	2.5	2.1	2.1	2.4	2.7	2.8
27.5°	2.1	1.8	2.0	2.3	2.6	2.7
30°	1.9	1.6	1.9	2.2	2.5	2.7
31°	1.8	1.5	1.9	2.1	2.5	2.7
32°	1.6	1.5	1.8	2.1	2.5	2.6
33°	1.5	1.4	1.8	2.1	2.5	2.6
34°	1.4	1.3	1.7	2.1	2.5	2.6
35°	1.2	1.3	1.7	2.1	2.4	2.6
36°	1.1	1.2	1.7	2.1	2.4	2.6
37°	1.0	1.2	1.6	2.1	2.4	2.6
38°	0.9	1.1	1.6	2.1	2.4	2.6
39°	0.8	1.1	1.5	2.1	2.4	2.6
40°	0.7	1.0	1.5	2.0	2.4	2.6
41°	0.7	1.0	1.5	2.0	2.4	2.6
42°	0.6	1.0	1.5	2.0	2.4	2.6
43°	0.5	0.9	1.5	2.0	2.4	2.6
44°	0.4	0.9	1.4	2.0	2.4	2.6
45°	0.4	0.9	1.4	2.0	2.4	2.6
46°	0.3	0.8	1.4	2.0	2.4	2.6
47°	0.2	0.8	1.4	1.9	2.4	2.6
48°	0.2	0.8	1.4	1.9	2.4	2.6
49°	0.2	0.8	1.3	1.9	2.4	2.6
50°	0.2	0.8	1.3	1.9	2.4	2.6
51°	0.1	0.7	1.3	1.9	2.4	2.6
52°	0.1	0.7	1.3	1.9	2.4	2.7
53°	0.1	0.7	1.3	1.9	2.4	2.6
54°	0.1	0.7	1.2	1.9	2.4	2.6
55°	0.1	0.7	1.2	1.9	2.4	2.6
56°	0.1	0.6	1.2	1.8	2.4	2.6
57°	0.2	0.6	1.2	1.8	2.4	2.5
58°	0.2	0.6	1.2	1.8	2.3	2.5
59°	0.2	0.6	1.2	1.8	2.3	2.5
60°	0.2	0.6	1.1	1.8	2.3	2.5
62.5°	0.2	0.6	1.1	1.7	2.2	2.4
65°	0.2	0.6	1.0	1.6	2.2	2.3



TEST NUMBER: P1334892

CATALOG NUMBER: P3A02R25B2750DE010 E3A451GPH_3000K

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.2	0.5	1.0	1.5	2.1	2.2
70°	0.3	0.5	0.9	1.5	2.1	2.1
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)