

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: P1334916

Luminaire Tested: P3A02R25B2750DE010 E3A451WMH_2700K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334916
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 E3A451WMH_2700K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R25 optic, 2700K CCT AND, 90CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

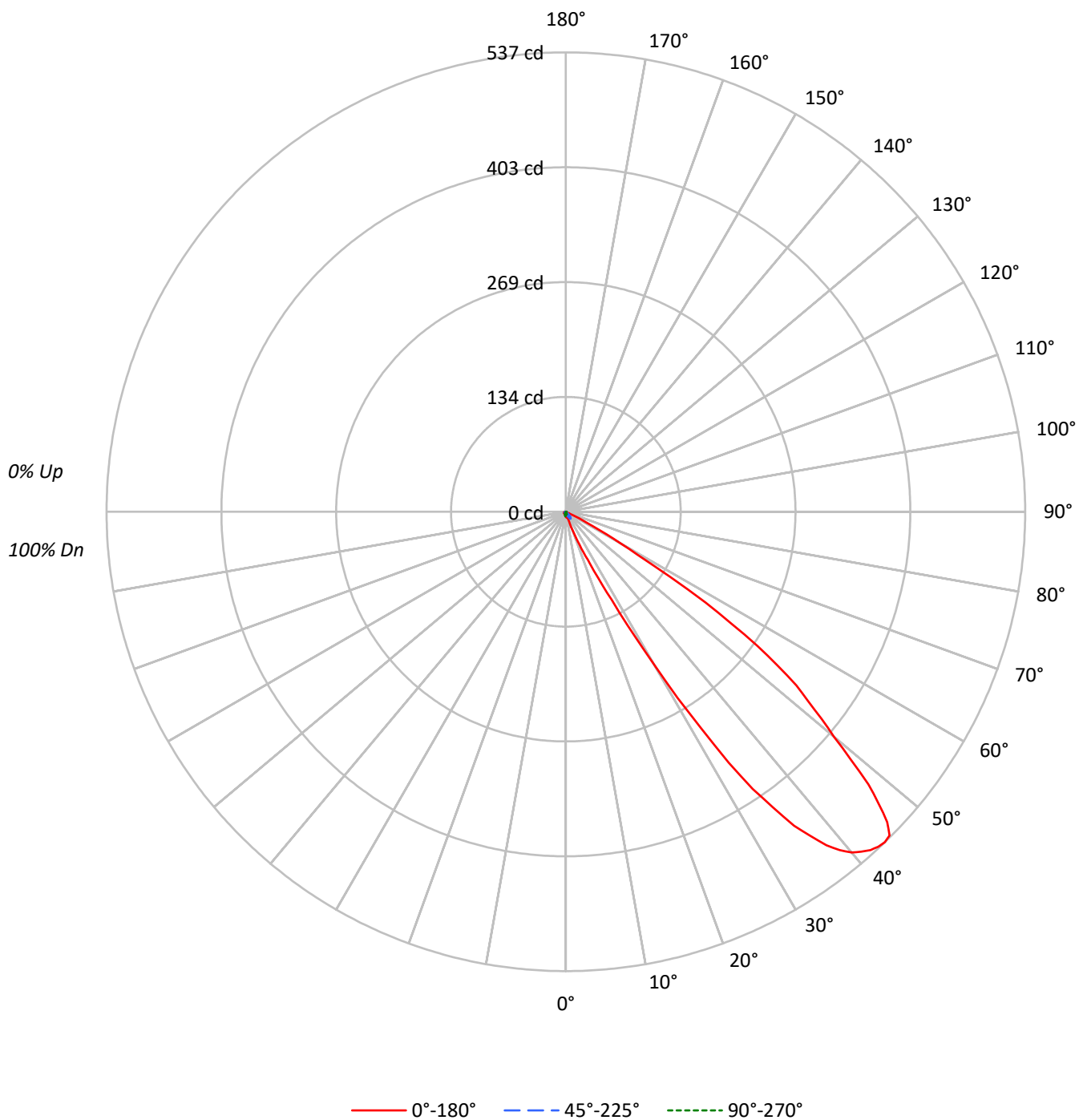
Lumens per Lamp: N/A
Luminaire Lumens: 112.1 lumens
Efficiency: N/A
Efficacy: 38.6 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1334916

CATALOG NUMBER: P3A02R25B2750DE010 E3A451WMH_2700K

Luminous Intensity Polar Plot



TEST NUMBER: P1334916

CATALOG NUMBER: P3A02R25B2750DE010 E3A451WMH_2700K

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	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°	1431	1365	1211	1079	1057
10°	1425	1291	1024	891	891
15°	1589	1112	795	772	795
20°	5600	1097	630	653	723
25°	16138	1403	508	605	702
30°	51502	2178	405	582	709
35°	112806	2570	348	562	723
40°	148822	2319	286	573	773
45°	165971	1613	279	620	837
50°	139697	853	273	648	921
55°	104446	344	268	726	1032
60°	32322	88	263	789	1140
65°	2750	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: 165971 cd/sqm

TEST NUMBER: P1334916

CATALOG NUMBER: P3A02R25B2750DE010 E3A451WMH_2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.5	0.5
10°-20°	1.3	1.2
20°-30°	6.2	5.5
30°-40°	29.8	26.6
40°-50°	46.8	41.7
50°-60°	24.0	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°	8.0	7.2
0°-40°	37.9	33.8
0°-60°	108.6	96.9
0°-90°	112.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	112.1	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°	67	6	2	2	3	41
35°	421	10	1	2	3	256
45°	535	5	1	2	3	392
55°	273	1	1	2	3	227
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: P1334916

CATALOG NUMBER: P3A02R25B2750DE010 E3A451WMH_2700K

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°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.4	6.4	6.4	6.2
7.5°	6.6	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.4	6.4	6.1
10°	6.4	6.4	6.4	6.4	6.3	6.3	6.3	6.2	6.2	6.2	5.8
12.5°	6.4	6.4	6.4	6.4	6.3	6.3	6.2	6.2	6.1	6.0	5.3
15°	7.0	7.0	7.0	6.9	6.8	6.7	6.6	6.5	6.4	6.2	4.9
17.5°	10.2	10.0	9.9	9.5	9.0	8.5	8.1	7.7	7.3	7.0	4.7
20°	24.0	23.9	23.5	22.3	21.0	19.5	18.0	16.4	14.0	12.4	4.7
22.5°	41.7	41.1	40.2	39.3	37.1	34.4	31.6	28.5	25.4	22.2	5.0
25°	66.7	68.1	65.1	62.8	58.8	54.0	48.8	44.4	38.9	33.8	5.8
27.5°	116.0	116.9	111.1	103.4	94.2	84.1	74.2	66.8	57.6	49.1	7.3
30°	203.4	204.3	194.6	178.2	159.3	142.6	120.0	100.2	82.0	67.9	8.6
31°	253.9	247.0	235.7	219.8	195.8	170.7	143.6	119.6	96.6	78.1	9.0
32°	297.7	297.2	283.9	259.9	235.8	204.8	171.2	140.0	111.7	88.3	9.3
33°	349.5	345.5	326.9	304.2	272.4	241.2	197.8	162.1	127.1	99.7	9.5
34°	391.0	380.3	372.6	346.7	313.1	273.3	226.9	185.6	146.5	110.8	9.6
35°	421.4	419.2	404.2	380.0	345.8	305.1	258.2	209.9	162.6	123.6	9.6
36°	453.7	446.7	432.1	410.2	376.9	334.8	282.2	231.0	181.4	135.1	9.5
37°	473.9	469.7	455.2	432.7	400.0	359.8	309.0	253.3	196.4	146.7	9.3
38°	494.7	486.3	472.0	450.4	418.4	380.6	328.4	270.4	210.2	156.8	9.0
39°	509.0	500.4	485.8	464.3	433.0	395.5	343.8	285.0	222.2	164.4	8.6
40°	519.9	511.5	496.7	474.7	443.7	407.2	356.6	297.9	232.3	171.0	8.1
41°	526.6	518.8	504.1	482.1	451.1	413.9	365.0	306.3	239.1	175.4	7.6
42°	532.2	524.2	509.2	486.8	455.6	419.7	370.1	311.6	243.7	177.7	7.2
43°	535.4	527.4	512.8	489.8	458.4	422.3	372.8	314.1	245.3	177.4	6.5
44°	537.1	528.9	514.2	491.2	459.6	423.0	373.0	313.6	244.2	175.0	5.9
45°	535.2	527.0	512.8	489.8	457.5	420.8	371.1	310.9	240.1	170.4	5.2
46°	522.4	516.0	503.0	481.9	451.0	415.3	366.0	305.8	233.7	164.7	4.4
47°	499.8	494.8	482.1	466.5	438.5	405.2	356.8	296.1	224.7	156.1	3.5
48°	476.2	468.8	457.1	441.0	417.4	386.9	341.5	281.8	211.1	144.9	3.2
49°	441.4	437.1	426.8	408.8	389.2	362.4	319.9	263.4	194.5	132.7	2.8
50°	409.5	406.5	392.1	378.9	358.1	333.0	290.6	239.3	173.8	117.5	2.5
51°	384.6	381.0	370.6	354.1	331.9	302.9	263.0	208.0	150.0	99.4	2.0
52°	358.6	356.6	347.3	330.4	308.6	279.6	236.0	181.3	126.9	84.1	1.6
53°	337.3	334.4	323.1	308.0	284.4	254.5	206.9	156.6	107.5	70.7	1.4
54°	306.2	305.0	297.7	282.0	256.4	223.8	180.5	131.9	89.7	59.9	1.2
55°	273.2	269.3	261.9	249.4	225.9	195.4	149.9	109.3	72.5	50.5	0.9
56°	233.0	232.8	219.6	209.1	188.3	156.0	119.7	85.4	58.9	42.1	0.8
57°	194.6	188.3	175.6	165.3	142.9	118.4	88.9	64.0	46.1	34.1	0.6
58°	143.9	140.6	137.3	122.1	101.4	83.9	63.5	44.9	34.1	26.0	0.4
59°	97.7	97.6	93.6	82.1	70.2	52.2	39.6	30.6	23.5	19.1	0.3
60°	73.7	71.9	64.1	56.5	44.2	33.0	23.5	18.0	14.6	12.3	0.2
62.5°	25.8	26.8	23.6	19.5	14.9	12.2	9.4	7.6	6.2	5.0	0.0
65°	5.3	5.8	5.0	4.7	3.7	3.3	2.9	2.5	2.1	1.8	0.0



TEST NUMBER: P1334916

CATALOG NUMBER: P3A02R25B2750DE010 E3A451WMH_2700K

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: P1334916

CATALOG NUMBER: P3A02R25B2750DE010 E3A451WMH_2700K

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	3.4	3.4	3.4	3.5
17.5°	3.6	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



TEST NUMBER: P1334916

CATALOG NUMBER: P3A02R25B2750DE010 E3A451WMH_2700K

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)