

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: P1335585

Luminaire Tested: P3A02R35B2750DE010 E3A451WMH_3000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335585
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R35B2750DE010 E3A451WMH_3000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R35 optic, 3000K CCT AND, 90CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

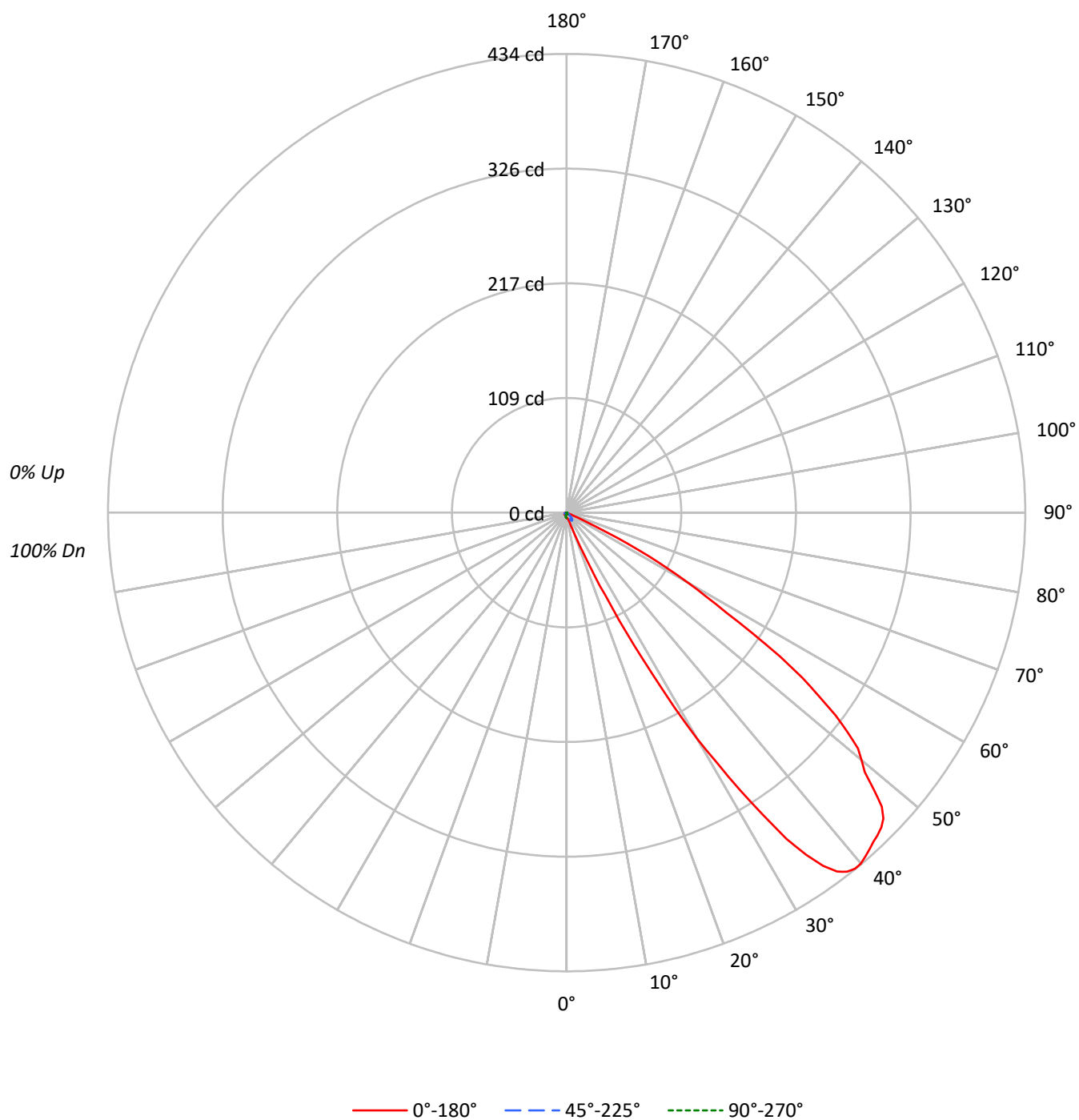
Lumens per Lamp: N/A
Luminaire Lumens: 108.0 lumens
Efficiency: N/A
Efficacy: 37.3 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.65 / 1.42
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1335585

CATALOG NUMBER: P3A02R35B2750DE010 E3A451WMH_3000K

Luminous Intensity Polar Plot



TEST NUMBER: P1335585

CATALOG NUMBER: P3A02R35B2750DE010 E3A451WMH_3000K

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	107	104	100	97	99	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	61	52	45	58	51	45	56	50	44	55	49	44	42		
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35		
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29		
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26	24		
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	20		
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1096	1096	1096	1096	1096
5°	1189	1167	1079	969	947
10°	1247	1136	957	824	824
15°	1771	1112	772	704	726
20°	4434	1190	607	607	677
25°	20590	1500	460	556	629
30°	62592	2051	380	506	633
35°	105792	2382	321	509	616
40°	124032	2347	258	515	658
45°	130618	1675	217	558	713
50°	124311	989	205	580	785
55°	104178	421	229	650	918
60°	58329	88	263	746	1009
65°	10066	52	259	830	1141
70°	192	64	321	898	1282
75°	169	85	424	1017	1525
80°	126	126	505	1137	1768
85°	0	252	1006	1258	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 131538 cd/sqm

TEST NUMBER: P1335585

CATALOG NUMBER: P3A02R35B2750DE010 E3A451WMH_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.5	0.4
10°-20°	1.3	1.2
20°-30°	6.6	6.1
30°-40°	28.6	26.5
40°-50°	40.8	37.8
50°-60°	25.3	23.4
60°-70°	3.9	3.6
70°-80°	0.7	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°	8.3	7.7
0°-40°	37.0	34.2
0°-60°	103.1	95.4
0°-90°	108.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	108.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5	5	5	5	5	
5°	5	5	5	4	4	1
15°	8	5	3	3	3	3
25°	85	6	2	2	3	51
35°	395	9	1	2	2	237
45°	421	5	1	2	2	318
55°	272	1	1	2	2	232
65°	19	0	0	2	2	40
75°	0	0	0	1	2	0
85°	0	0	0	0	1	0
90°	0	0	0	0	0	

TEST NUMBER: P1335585

CATALOG NUMBER: P3A02R35B2750DE010 E3A451WMH_3000K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
2.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.0	4.9
5°	5.4	5.4	5.3	5.3	5.3	5.3	5.3	5.3	5.1	4.9	4.6
7.5°	5.5	5.5	5.4	5.4	5.4	5.4	5.3	5.2	5.0	4.6	4.3
10°	5.6	5.6	5.6	5.6	5.5	5.4	5.3	5.1	4.8	4.3	4.0
12.5°	6.2	6.2	6.1	5.9	5.8	5.6	5.4	5.0	4.4	3.9	3.6
15°	7.8	7.7	7.5	7.2	6.8	6.3	5.9	4.9	4.0	3.4	3.2
17.5°	10.9	10.7	10.4	9.5	8.6	7.7	6.9	4.9	3.6	3.0	2.8
20°	19.0	19.1	17.1	14.7	12.8	10.6	8.7	5.1	3.2	2.6	2.5
22.5°	39.7	38.1	33.2	27.6	21.1	16.3	12.3	5.6	2.8	2.2	2.2
25°	85.1	79.2	67.4	50.9	35.9	25.4	17.8	6.2	2.5	1.9	2.0
27.5°	155.4	150.0	126.4	95.2	63.2	38.4	24.2	7.1	2.2	1.7	1.9
30°	247.2	232.4	201.5	156.0	105.6	58.8	32.5	8.1	1.9	1.5	1.8
31°	275.9	269.1	231.4	180.5	123.7	69.8	36.0	8.4	1.8	1.5	1.7
32°	309.9	297.8	264.1	207.3	142.1	79.7	40.2	8.7	1.7	1.3	1.7
33°	340.3	328.6	287.6	230.9	160.8	90.9	44.7	8.8	1.5	1.3	1.6
34°	372.3	356.3	315.7	255.5	179.9	103.0	48.7	8.9	1.4	1.2	1.6
35°	395.2	379.2	339.9	275.0	196.4	113.7	53.4	8.9	1.3	1.2	1.5
36°	413.0	398.9	360.7	295.1	212.7	123.3	57.1	8.9	1.1	1.1	1.5
37°	425.2	411.8	374.8	312.4	225.2	131.9	60.4	8.9	1.0	1.1	1.5
38°	431.1	420.0	388.3	324.9	237.3	138.6	63.1	8.7	0.9	1.0	1.4
39°	433.6	424.6	396.6	335.6	246.4	144.5	65.0	8.5	0.8	1.0	1.4
40°	433.3	425.4	401.3	342.9	253.7	148.5	66.1	8.2	0.7	0.9	1.4
41°	431.0	424.2	403.7	349.1	258.1	151.2	66.4	7.9	0.6	0.9	1.3
42°	428.5	422.2	404.5	352.4	260.9	152.1	65.6	7.5	0.6	0.8	1.3
43°	425.8	420.1	404.5	353.5	261.6	151.5	64.3	6.8	0.5	0.8	1.3
44°	423.7	418.2	403.2	353.2	260.1	149.3	62.0	6.0	0.4	0.8	1.3
45°	421.2	415.8	401.6	351.4	257.3	145.5	59.1	5.4	0.3	0.7	1.3
46°	416.7	412.5	398.6	347.6	252.8	140.2	55.4	4.9	0.2	0.7	1.2
47°	408.0	404.4	393.0	341.9	246.9	134.0	51.6	4.4	0.2	0.7	1.2
48°	390.6	390.5	381.7	331.4	237.4	126.2	47.6	3.9	0.2	0.7	1.2
49°	373.7	371.9	361.0	312.9	223.8	116.8	43.4	3.5	0.1	0.7	1.2
50°	364.4	360.6	342.7	291.0	206.5	103.8	38.9	2.9	0.1	0.6	1.2
51°	354.8	349.3	328.2	271.3	185.8	91.4	34.0	2.3	0.1	0.6	1.1
52°	337.3	332.2	308.5	252.5	165.7	78.6	29.3	1.9	0.1	0.6	1.2
53°	318.5	311.1	285.4	231.8	148.1	67.3	24.6	1.7	0.1	0.6	1.1
54°	294.8	291.5	262.0	206.5	127.4	56.4	20.2	1.4	0.1	0.6	1.1
55°	272.5	267.6	236.9	180.6	108.7	46.2	16.9	1.1	0.1	0.6	1.1
56°	244.0	236.7	208.0	156.8	89.7	37.2	14.2	0.9	0.1	0.6	1.1
57°	210.1	202.3	179.6	130.3	70.4	28.4	11.9	0.7	0.1	0.6	1.1
58°	177.7	171.0	146.6	100.6	53.0	19.7	9.8	0.5	0.1	0.5	1.1
59°	153.6	146.1	122.0	77.4	36.9	14.5	7.4	0.4	0.1	0.6	1.1
60°	133.0	123.4	98.2	60.0	26.3	10.4	5.5	0.2	0.2	0.6	1.1
62.5°	76.6	67.7	46.9	24.4	10.8	5.4	2.6	0.1	0.2	0.6	1.1
65°	19.4	17.3	11.2	5.3	3.0	1.9	1.0	0.1	0.2	0.5	1.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	0.7	0.7	0.7	0.6	0.5	0.4	0.2	0.1	0.2	0.5	1.0
70°	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.2	0.5	0.9
72.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.3	0.5	0.8
75°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.3	0.5	0.8
77.5°	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.4	0.7
80°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.4	0.6
82.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.4	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.3	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.4	0.3
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: P1335585

CATALOG NUMBER: P3A02R35B2750DE010 E3A451WMH_3000K

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	5.0	5.0	5.0
2.5°	4.7	4.7	4.7
5°	4.4	4.4	4.3
7.5°	4.1	4.0	4.0
10°	3.7	3.7	3.7
12.5°	3.4	3.4	3.4
15°	3.1	3.2	3.2
17.5°	2.8	3.0	3.0
20°	2.6	2.8	2.9
22.5°	2.4	2.6	2.7
25°	2.3	2.5	2.6
27.5°	2.1	2.4	2.6
30°	2.0	2.3	2.5
31°	2.0	2.3	2.4
32°	1.9	2.3	2.4
33°	1.9	2.3	2.4
34°	1.9	2.2	2.4
35°	1.9	2.2	2.3
36°	1.9	2.2	2.3
37°	1.9	2.2	2.4
38°	1.9	2.2	2.3
39°	1.8	2.2	2.3
40°	1.8	2.2	2.3
41°	1.8	2.2	2.3
42°	1.8	2.2	2.3
43°	1.8	2.2	2.3
44°	1.8	2.1	2.3
45°	1.8	2.1	2.3
46°	1.8	2.2	2.3
47°	1.8	2.2	2.4
48°	1.8	2.1	2.3
49°	1.7	2.1	2.3
50°	1.7	2.1	2.3
51°	1.7	2.2	2.4
52°	1.7	2.2	2.4
53°	1.7	2.2	2.4
54°	1.7	2.2	2.3
55°	1.7	2.2	2.4
56°	1.7	2.2	2.3
57°	1.7	2.2	2.3
58°	1.7	2.1	2.3
59°	1.7	2.1	2.3
60°	1.7	2.1	2.3
62.5°	1.6	2.1	2.3
65°	1.6	2.0	2.2



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CATALOG NUMBER: P3A02R35B2750DE010 E3A451WMH_3000K

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	1.5	2.0	2.1
70°	1.4	1.9	2.0
72.5°	1.3	1.9	1.9
75°	1.2	1.7	1.8
77.5°	1.0	1.5	1.7
80°	0.9	1.3	1.4
82.5°	0.7	1.1	1.2
85°	0.5	0.8	0.8
87.5°	0.2	0.4	0.4
90°	0.0	0.0	0.0

(END OF REPORT)