

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: P1337585

Luminaire Tested: P3A05R25B2750DE010 E3A451WMH_4000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337585
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: P3A05R25B2750DE010 E3A451WMH_4000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R25 optic, 4000K CCT AND, 80CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

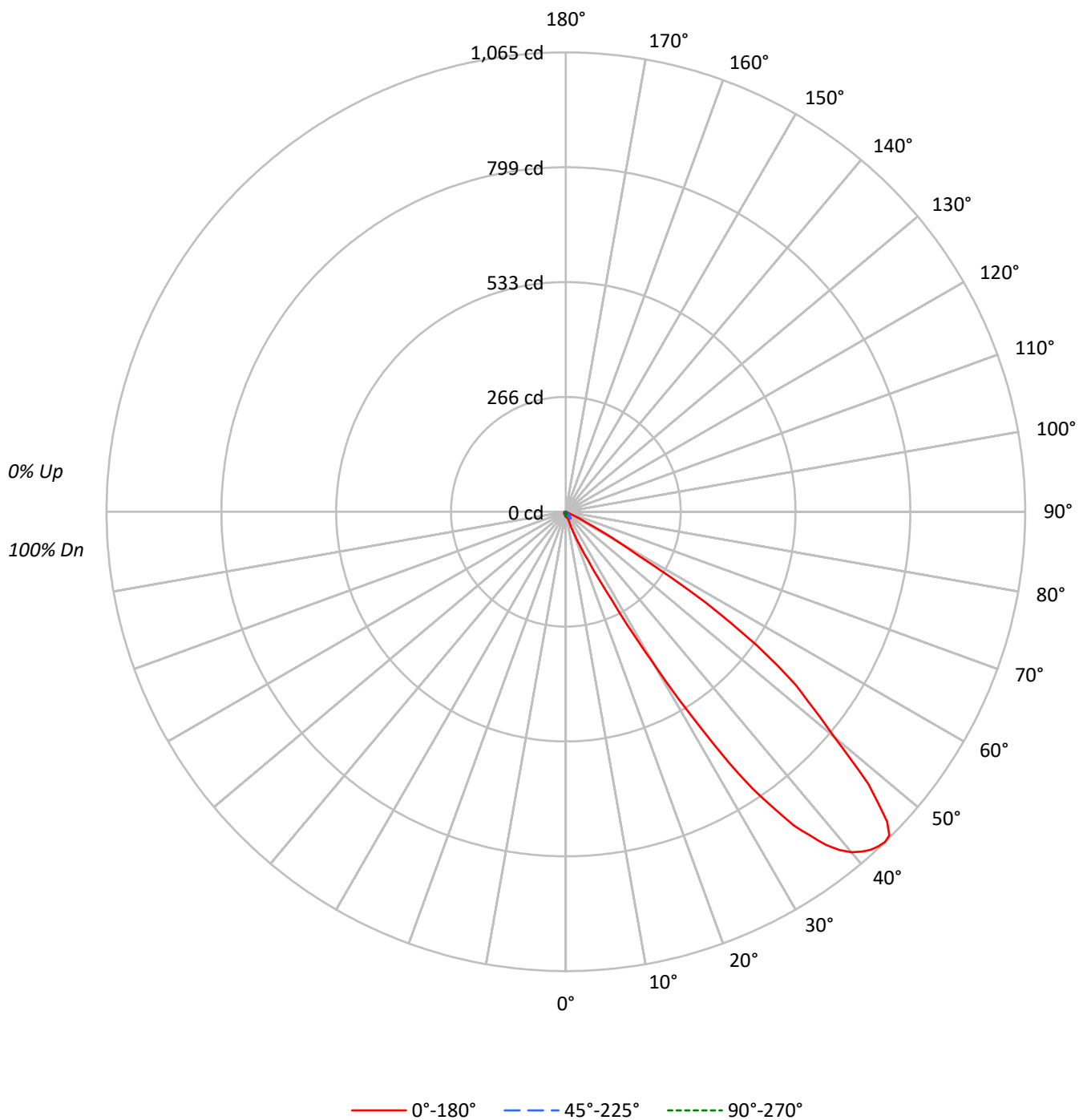
Lumens per Lamp: N/A
Luminaire Lumens: 222.0 lumens
Efficiency: N/A
Efficacy: 37.6 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 5.9
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	0			
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°	2478	2478	2478	2478	2478
5°	2840	2707	2399	2157	2113
10°	2828	2561	2049	1781	1781
15°	3156	2225	1589	1498	1589
20°	11131	2194	1237	1283	1423
25°	32010	2782	992	1186	1379
30°	102092	4304	785	1139	1393
35°	223603	5059	669	1098	1419
40°	294981	4580	573	1116	1517
45°	328964	3225	558	1209	1644
50°	276903	1672	546	1262	1808
55°	207018	688	535	1415	2026
60°	64074	175	526	1535	2237
65°	5448	0	623	1608	2439
70°	385	128	641	1859	2757
75°	339	169	847	1949	3135
80°	253	253	1263	2273	3662
85°	503	503	2013	2516	4026

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 328964 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.5
10°-20°	2.6	1.2
20°-30°	12.3	5.5
30°-40°	59.1	26.6
40°-50°	92.7	41.7
50°-60°	47.5	21.4
60°-70°	4.5	2.0
70°-80°	1.5	0.7
80°-90°	0.8	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°	15.9	7.2
0°-40°	75.1	33.8
0°-60°	215.3	97.0
0°-90°	222.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	222.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11	11	11	11	11	
5°	13	12	11	10	10	1
15°	14	10	7	7	7	6
25°	132	12	4	5	6	82
35°	835	19	2	4	5	507
45°	1061	10	2	4	5	776
55°	542	2	1	4	5	451
65°	10	0	1	3	5	33
75°	0	0	1	2	4	0
85°	0	0	1	1	2	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°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
2.5°	12.3	12.3	12.3	12.3	12.3	12.3	12.1	12.1	12.3	12.1	12.1
5°	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.7	12.7	12.7	12.3
7.5°	13.1	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.7	12.7	12.1
10°	12.7	12.7	12.7	12.7	12.5	12.5	12.5	12.3	12.3	12.3	11.5
12.5°	12.7	12.7	12.7	12.7	12.5	12.5	12.3	12.3	12.1	11.9	10.5
15°	13.9	13.9	13.9	13.7	13.5	13.3	13.1	12.9	12.7	12.3	9.8
17.5°	20.3	19.7	19.5	18.8	17.8	16.8	16.0	15.2	14.5	13.9	9.4
20°	47.7	47.5	46.5	44.2	41.6	38.7	35.7	32.4	27.7	24.6	9.4
22.5°	82.6	81.5	79.7	77.9	73.5	68.2	62.7	56.5	50.4	44.0	10.0
25°	132.3	135.0	129.1	124.4	116.6	107.1	96.7	88.1	77.2	67.0	11.5
27.5°	229.9	231.7	220.2	204.9	186.8	166.6	147.1	132.5	114.1	97.3	14.5
30°	403.2	405.0	385.6	353.2	315.7	282.7	237.9	198.7	162.5	134.6	17.0
31°	503.2	489.6	467.1	435.6	388.2	338.4	284.6	237.2	191.4	154.7	17.8
32°	590.2	589.0	562.8	515.2	467.5	405.9	339.3	277.4	221.3	175.0	18.4
33°	692.7	684.9	648.0	603.1	540.0	478.0	392.1	321.4	252.0	197.7	18.8
34°	775.0	753.9	738.6	687.3	620.6	541.7	449.7	367.9	290.3	219.6	18.9
35°	835.3	830.8	801.1	753.3	685.5	604.8	511.8	416.1	322.3	245.0	18.9
36°	899.2	885.3	856.4	813.1	747.0	663.6	559.3	457.9	359.6	267.8	18.8
37°	939.3	931.1	902.3	857.6	792.9	713.2	612.4	502.1	389.3	290.7	18.4
38°	980.5	963.9	935.6	892.8	829.3	754.5	650.9	536.1	416.7	310.8	17.8
39°	1009.0	991.8	962.9	920.3	858.2	784.0	681.4	565.0	440.5	325.9	17.0
40°	1030.5	1013.9	984.6	940.8	879.5	807.2	706.8	590.6	460.5	338.9	16.0
41°	1043.8	1028.3	999.2	955.7	894.1	820.5	723.4	607.2	473.9	347.7	15.0
42°	1054.9	1039.1	1009.4	964.9	903.1	831.8	733.6	617.7	483.1	352.2	14.3
43°	1061.2	1045.3	1016.4	970.9	908.6	837.1	739.0	622.6	486.2	351.6	12.9
44°	1064.7	1048.3	1019.2	973.6	910.9	838.5	739.4	621.6	484.1	347.0	11.7
45°	1060.8	1044.6	1016.4	970.9	906.8	834.2	735.5	616.3	475.9	337.8	10.4
46°	1035.4	1022.9	997.1	955.3	893.9	823.2	725.5	606.2	463.2	326.4	8.8
47°	990.6	980.7	955.7	924.6	869.1	803.1	707.2	586.8	445.4	309.4	7.0
48°	944.0	929.3	906.1	874.2	827.3	767.0	676.9	558.5	418.4	287.2	6.3
49°	875.0	866.4	845.9	810.3	771.5	718.3	634.1	522.2	385.4	262.9	5.5
50°	811.7	805.8	777.1	750.9	709.7	660.1	576.1	474.3	344.4	232.9	4.9
51°	762.3	755.2	734.5	701.9	658.0	600.3	521.2	412.2	297.3	197.1	3.9
52°	710.7	706.8	688.4	654.8	611.7	554.2	467.9	359.5	251.6	166.6	3.1
53°	668.5	662.8	640.4	610.5	563.8	504.4	410.0	310.4	213.1	140.1	2.7
54°	607.0	604.6	590.2	558.9	508.3	443.7	357.7	261.4	177.8	118.8	2.3
55°	541.5	533.7	519.1	494.2	447.8	387.4	297.1	216.6	143.8	100.0	1.8
56°	461.8	461.4	435.3	414.5	373.3	309.2	237.4	169.2	116.8	83.4	1.6
57°	385.6	373.3	348.1	327.6	283.3	234.6	176.2	126.8	91.4	67.6	1.2
58°	285.2	278.8	272.1	242.0	201.0	166.2	125.8	89.1	67.6	51.6	0.8
59°	193.6	193.4	185.6	162.7	139.1	103.5	78.5	60.6	46.5	37.9	0.6
60°	146.1	142.6	127.0	111.9	87.5	65.4	46.5	35.7	28.9	24.4	0.4
62.5°	51.2	53.1	46.7	38.7	29.5	24.2	18.6	15.0	12.3	10.0	0.0
65°	10.5	11.5	10.0	9.4	7.4	6.4	5.7	4.9	4.1	3.5	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°	1.4	1.2	1.2	1.2	1.0	1.0	1.0	1.0	0.8	0.8	0.2
70°	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.2
72.5°	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.2
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
85°	0.2	0.2	0.2	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
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°	11.3	11.3	11.3	11.3	11.3	11.3
2.5°	11.9	11.5	10.9	10.7	10.5	10.5
5°	11.7	10.9	10.4	9.8	9.6	9.6
7.5°	11.1	10.2	9.4	9.0	8.8	8.6
10°	10.5	9.2	8.4	8.0	8.0	8.0
12.5°	9.4	8.2	7.4	7.2	7.4	7.4
15°	8.4	7.0	6.6	6.6	6.8	7.0
17.5°	7.2	6.3	5.9	6.1	6.3	6.4
20°	6.4	5.3	5.3	5.5	6.1	6.1
22.5°	5.7	4.7	4.7	5.3	5.7	5.9
25°	5.1	4.1	4.3	4.9	5.5	5.7
27.5°	4.3	3.5	3.9	4.7	5.3	5.5
30°	3.7	3.1	3.7	4.5	5.1	5.5
31°	3.5	2.9	3.7	4.3	5.1	5.5
32°	3.1	2.9	3.5	4.3	5.1	5.3
33°	2.9	2.7	3.5	4.3	5.1	5.3
34°	2.7	2.5	3.3	4.3	5.1	5.3
35°	2.3	2.5	3.3	4.1	4.9	5.3
36°	2.1	2.3	3.3	4.1	4.9	5.3
37°	2.0	2.3	3.1	4.1	4.9	5.3
38°	1.8	2.1	3.1	4.1	4.9	5.3
39°	1.6	2.1	2.9	4.1	4.9	5.3
40°	1.4	2.0	2.9	3.9	4.9	5.3
41°	1.4	2.0	2.9	3.9	4.9	5.3
42°	1.2	2.0	2.9	3.9	4.9	5.3
43°	1.0	1.8	2.9	3.9	4.9	5.3
44°	0.8	1.8	2.7	3.9	4.9	5.3
45°	0.8	1.8	2.7	3.9	4.9	5.3
46°	0.6	1.6	2.7	3.9	4.9	5.3
47°	0.4	1.6	2.7	3.7	4.9	5.3
48°	0.4	1.6	2.7	3.7	4.9	5.3
49°	0.4	1.6	2.5	3.7	4.9	5.3
50°	0.4	1.6	2.5	3.7	4.9	5.3
51°	0.2	1.4	2.5	3.7	4.9	5.3
52°	0.2	1.4	2.5	3.7	4.9	5.5
53°	0.2	1.4	2.5	3.7	4.9	5.3
54°	0.2	1.4	2.3	3.7	4.9	5.3
55°	0.2	1.4	2.3	3.7	4.9	5.3
56°	0.2	1.2	2.3	3.5	4.9	5.3
57°	0.4	1.2	2.3	3.5	4.9	5.1
58°	0.4	1.2	2.3	3.5	4.7	5.1
59°	0.4	1.2	2.3	3.5	4.7	5.1
60°	0.4	1.2	2.1	3.5	4.7	5.1
62.5°	0.4	1.2	2.1	3.3	4.5	4.9
65°	0.4	1.2	2.0	3.1	4.5	4.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.4	1.0	2.0	2.9	4.3	4.5
70°	0.6	1.0	1.8	2.9	4.1	4.3
72.5°	0.6	1.0	1.8	2.5	3.7	4.1
75°	0.6	1.0	1.6	2.3	3.5	3.7
77.5°	0.6	1.0	1.4	2.1	3.1	3.3
80°	0.8	1.0	1.2	1.8	2.7	2.9
82.5°	0.8	1.0	1.0	1.4	2.1	2.3
85°	0.6	0.8	0.8	1.0	1.4	1.6
87.5°	0.6	0.8	0.6	0.4	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)