

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: P1337583

Luminaire Tested: P3A05R25B2750DE010 E3A451WMH_3000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337583
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_3000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R25 optic, 3000K CCT AND, 90CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

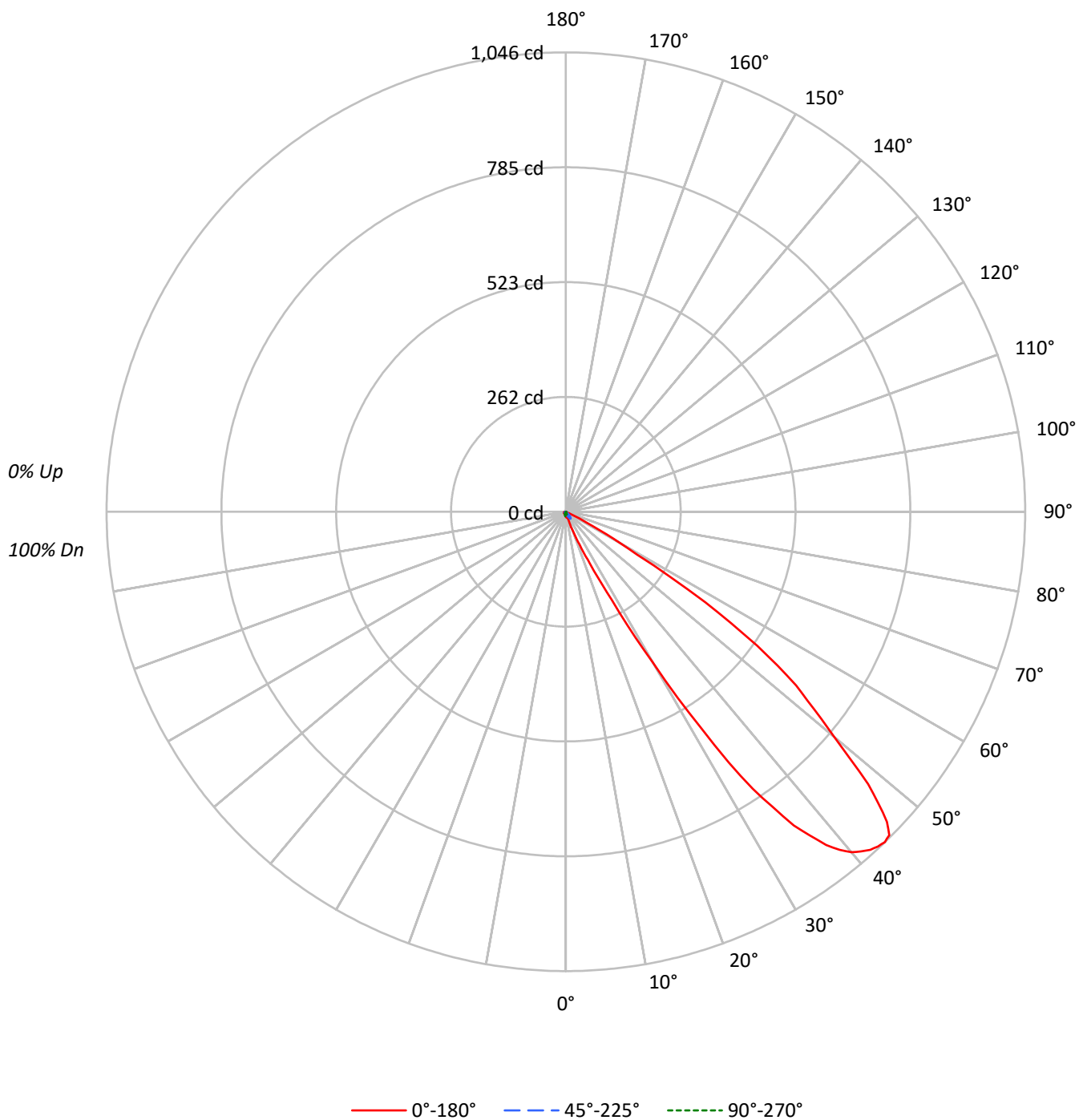
Lumens per Lamp: N/A
Luminaire Lumens: 218.0 lumens
Efficiency: N/A
Efficacy: 37.0 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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				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	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°	2434	2434	2434	2434	2434
5°	2796	2663	2355	2113	2069
10°	2783	2516	2004	1759	1759
15°	3087	2179	1566	1476	1566
20°	10921	2147	1213	1260	1377
25°	31429	2734	968	1161	1355
30°	100243	4228	785	1114	1367
35°	219588	4979	669	1071	1392
40°	289657	4494	544	1088	1489
45°	323041	3163	527	1178	1613
50°	271923	1637	512	1228	1774
55°	203309	650	497	1376	1988
60°	62934	175	526	1535	2193
65°	5396	0	623	1608	2387
70°	385	128	641	1859	2693
75°	339	169	847	1949	3050
80°	253	253	1263	2147	3662
85°	503	503	2013	2516	3774

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 323041 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°	12.1	5.5
30°-40°	58.1	26.6
40°-50°	91.0	41.7
50°-60°	46.7	21.4
60°-70°	4.4	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°	15.6	7.2
0°-40°	73.7	33.8
0°-60°	211.4	96.9
0°-90°	218.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	218.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11	11	11	11	11	
5°	13	12	11	10	9	1
15°	14	10	7	6	7	6
25°	130	11	4	5	6	81
35°	820	19	2	4	5	498
45°	1042	10	2	4	5	762
55°	532	2	1	4	5	443
65°	10	0	1	3	5	32
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°	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
2.5°	12.1	12.1	12.1	12.1	12.1	12.1	11.9	11.9	12.1	11.9	11.9
5°	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.5	12.5	12.5	12.1
7.5°	12.9	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.5	12.5	11.9
10°	12.5	12.5	12.5	12.5	12.3	12.3	12.3	12.1	12.1	12.1	11.3
12.5°	12.5	12.5	12.5	12.5	12.3	12.3	12.1	12.1	11.9	11.7	10.4
15°	13.6	13.6	13.6	13.4	13.2	13.0	12.9	12.7	12.5	12.1	9.6
17.5°	20.0	19.4	19.2	18.4	17.5	16.5	15.7	15.0	14.2	13.6	9.2
20°	46.8	46.6	45.7	43.4	40.9	38.0	35.1	31.8	27.2	24.2	9.2
22.5°	81.1	80.0	78.3	76.5	72.1	67.0	61.6	55.4	49.5	43.2	9.8
25°	129.9	132.6	126.8	122.2	114.5	105.1	95.0	86.5	75.8	65.8	11.3
27.5°	225.8	227.5	216.2	201.2	183.4	163.6	144.5	130.1	112.0	95.5	14.2
30°	395.9	397.7	378.7	346.8	310.0	277.6	233.7	195.1	159.6	132.2	16.7
31°	494.2	480.7	458.7	427.8	381.2	332.3	279.5	232.9	188.0	151.9	17.5
32°	579.5	578.4	552.7	505.9	459.1	398.6	333.2	272.4	217.3	171.9	18.0
33°	680.2	672.6	636.3	592.2	530.2	469.4	385.0	315.6	247.5	194.1	18.4
34°	761.0	740.3	725.3	674.9	609.5	532.0	441.6	361.2	285.1	215.6	18.6
35°	820.3	815.9	786.7	739.7	673.1	593.9	502.6	408.6	316.5	240.6	18.6
36°	883.0	869.4	841.0	798.4	733.6	651.7	549.2	449.7	353.2	263.0	18.4
37°	922.3	914.3	886.1	842.2	778.7	700.4	601.4	493.0	382.3	285.5	18.0
38°	962.8	946.5	918.7	876.7	814.3	740.9	639.2	526.4	409.2	305.2	17.5
39°	990.8	973.9	945.6	903.7	842.7	769.8	669.1	554.8	432.6	320.0	16.7
40°	1011.9	995.6	966.8	923.9	863.6	792.7	694.1	579.9	452.2	332.8	15.7
41°	1025.0	1009.8	981.2	938.5	878.0	805.7	710.4	596.2	465.4	341.5	14.8
42°	1035.9	1020.4	991.2	947.5	886.9	816.8	720.3	606.6	474.4	345.9	14.0
43°	1042.0	1026.5	998.1	953.4	892.2	822.0	725.7	611.4	477.5	345.3	12.7
44°	1045.5	1029.4	1000.8	956.1	894.5	823.4	726.1	610.4	475.4	340.7	11.5
45°	1041.7	1025.7	998.1	953.4	890.5	819.1	722.3	605.2	467.3	331.7	10.2
46°	1016.7	1004.4	979.1	938.1	877.8	808.4	712.5	595.3	454.8	320.6	8.6
47°	972.8	963.0	938.5	908.0	853.5	788.6	694.4	576.3	437.4	303.9	6.9
48°	926.9	912.6	889.7	858.5	812.4	753.1	664.7	548.5	410.9	282.0	6.1
49°	859.2	850.8	830.6	795.7	757.6	705.4	622.7	512.8	378.5	258.2	5.4
50°	797.1	791.3	763.1	737.4	696.9	648.2	565.7	465.8	338.2	228.7	4.8
51°	748.5	741.6	721.3	689.3	646.1	589.5	511.8	404.8	292.0	193.6	3.8
52°	697.9	694.1	676.0	643.0	600.6	544.2	459.4	353.0	247.1	163.6	3.1
53°	656.5	650.9	628.8	599.5	553.6	495.3	402.7	304.8	209.3	137.5	2.7
54°	596.0	593.7	579.5	548.8	499.2	435.7	351.2	256.7	174.6	116.6	2.3
55°	531.8	524.1	509.7	485.3	439.7	380.4	291.8	212.7	141.2	98.2	1.7
56°	453.5	453.1	427.4	407.1	366.6	303.7	233.1	166.1	114.7	81.9	1.5
57°	378.7	366.6	341.8	321.7	278.2	230.4	173.0	124.5	89.8	66.4	1.2
58°	280.1	273.7	267.2	237.7	197.4	163.3	123.5	87.5	66.4	50.6	0.8
59°	190.1	189.9	182.2	159.8	136.6	101.7	77.1	59.5	45.7	37.2	0.6
60°	143.5	140.0	124.7	109.9	85.9	64.3	45.7	35.1	28.4	24.0	0.4
62.5°	50.3	52.2	45.8	38.0	29.0	23.8	18.2	14.8	12.1	9.8	0.0
65°	10.4	11.3	9.8	9.2	7.3	6.3	5.6	4.8	4.0	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°	1.3	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°	11.1	11.1	11.1	11.1	11.1	11.1
2.5°	11.7	11.3	10.7	10.6	10.4	10.4
5°	11.5	10.7	10.2	9.6	9.4	9.4
7.5°	10.9	10.0	9.2	8.8	8.6	8.4
10°	10.4	9.0	8.2	7.9	7.9	7.9
12.5°	9.2	8.1	7.3	7.1	7.3	7.3
15°	8.2	6.9	6.5	6.5	6.7	6.9
17.5°	7.1	6.1	5.8	5.9	6.1	6.3
20°	6.3	5.2	5.2	5.4	5.9	5.9
22.5°	5.6	4.6	4.6	5.2	5.6	5.8
25°	5.0	4.0	4.2	4.8	5.4	5.6
27.5°	4.2	3.5	3.8	4.6	5.2	5.4
30°	3.6	3.1	3.6	4.4	5.0	5.4
31°	3.5	2.9	3.6	4.2	5.0	5.4
32°	3.1	2.9	3.5	4.2	5.0	5.2
33°	2.9	2.7	3.5	4.2	5.0	5.2
34°	2.7	2.5	3.3	4.2	5.0	5.2
35°	2.3	2.5	3.3	4.0	4.8	5.2
36°	2.1	2.3	3.3	4.0	4.8	5.2
37°	1.9	2.3	3.1	4.0	4.8	5.2
38°	1.7	2.1	3.1	4.0	4.8	5.2
39°	1.5	2.1	2.9	4.0	4.8	5.2
40°	1.3	1.9	2.9	3.8	4.8	5.2
41°	1.3	1.9	2.9	3.8	4.8	5.2
42°	1.2	1.9	2.9	3.8	4.8	5.2
43°	1.0	1.7	2.9	3.8	4.8	5.2
44°	0.8	1.7	2.7	3.8	4.8	5.2
45°	0.8	1.7	2.7	3.8	4.8	5.2
46°	0.6	1.5	2.7	3.8	4.8	5.2
47°	0.4	1.5	2.7	3.6	4.8	5.2
48°	0.4	1.5	2.7	3.6	4.8	5.2
49°	0.4	1.5	2.5	3.6	4.8	5.2
50°	0.4	1.5	2.5	3.6	4.8	5.2
51°	0.2	1.3	2.5	3.6	4.8	5.2
52°	0.2	1.3	2.5	3.6	4.8	5.4
53°	0.2	1.3	2.5	3.6	4.8	5.2
54°	0.2	1.3	2.3	3.6	4.8	5.2
55°	0.2	1.3	2.3	3.6	4.8	5.2
56°	0.2	1.2	2.3	3.5	4.8	5.2
57°	0.4	1.2	2.3	3.5	4.8	5.0
58°	0.4	1.2	2.3	3.5	4.6	5.0
59°	0.4	1.2	2.3	3.5	4.6	5.0
60°	0.4	1.2	2.1	3.5	4.6	5.0
62.5°	0.4	1.2	2.1	3.3	4.4	4.8
65°	0.4	1.2	1.9	3.1	4.4	4.6



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.4	1.0	1.9	2.9	4.2	4.4
70°	0.6	1.0	1.7	2.9	4.0	4.2
72.5°	0.6	1.0	1.7	2.5	3.6	4.0
75°	0.6	1.0	1.5	2.3	3.5	3.6
77.5°	0.6	1.0	1.3	2.1	3.1	3.3
80°	0.8	1.0	1.2	1.7	2.7	2.9
82.5°	0.8	1.0	1.0	1.3	2.1	2.3
85°	0.6	0.8	0.8	1.0	1.3	1.5
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)