

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: P1337584

Luminaire Tested: P3A05R25B2750DE010 E3A451WMH_3500K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337584
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_3500K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R25 optic, 3500K CCT AND, 80CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

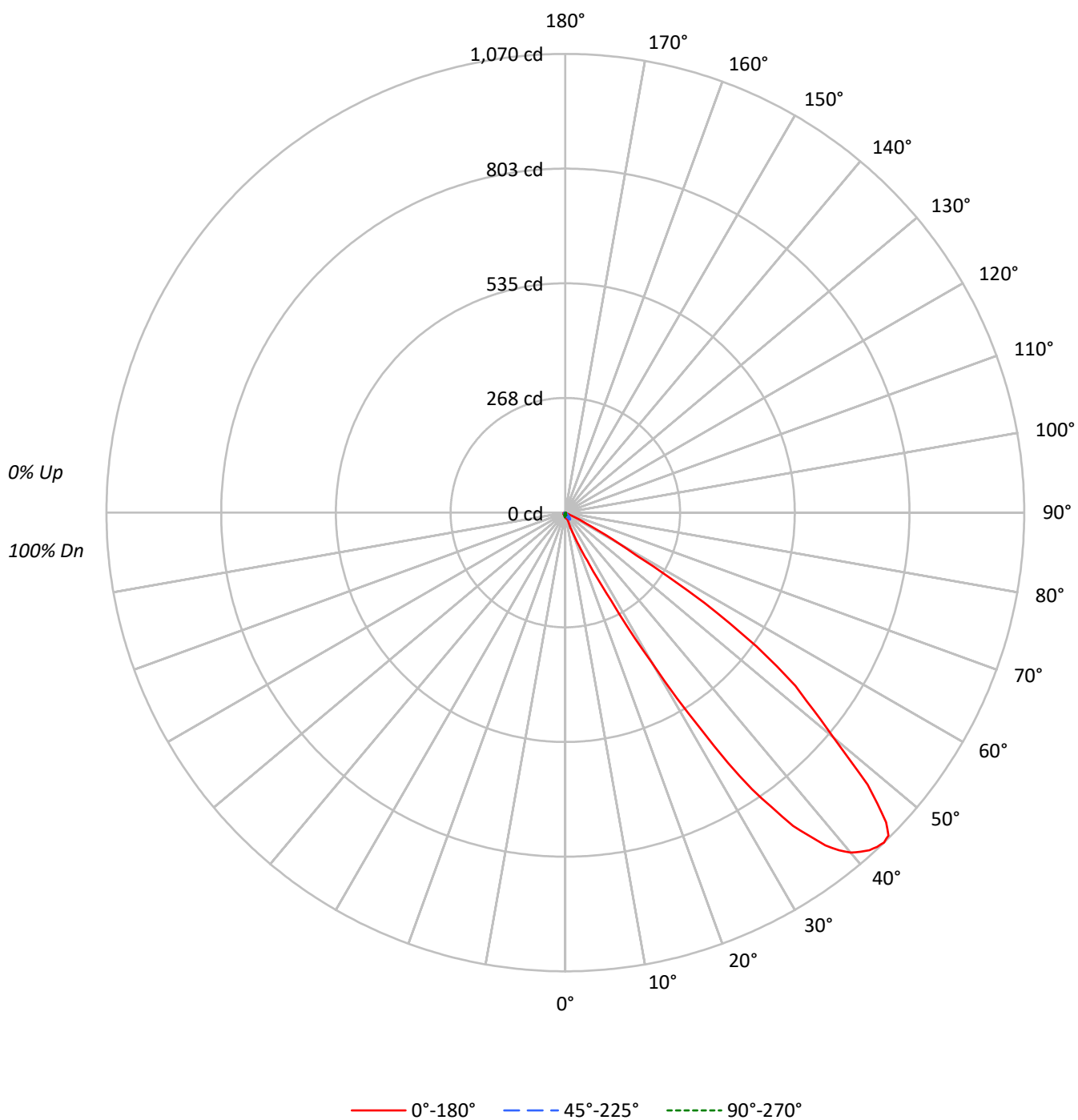
Lumens per Lamp: N/A
Luminaire Lumens: 223.0 lumens
Efficiency: N/A
Efficacy: 37.8 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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				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°	2500	2500	2500	2500	2500
5°	2862	2729	2421	2157	2113
10°	2850	2583	2049	1781	1781
15°	3156	2225	1612	1521	1612
20°	11178	2194	1237	1283	1423
25°	32155	2807	992	1186	1379
30°	102547	4330	785	1139	1393
35°	224621	5086	696	1098	1419
40°	296298	4609	573	1116	1517
45°	330453	3225	558	1209	1644
50°	278166	1672	546	1262	1808
55°	207973	688	535	1415	2026
60°	64381	175	526	1535	2237
65°	5500	0	623	1608	2439
70°	385	128	641	1859	2757
75°	339	169	847	2033	3135
80°	253	253	1263	2273	3662
85°	503	503	2013	2516	4026

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 330453 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°	59.4	26.6
40°-50°	93.1	41.7
50°-60°	47.7	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°	16.0	7.2
0°-40°	75.4	33.8
0°-60°	216.2	97.0
0°-90°	223.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	223.0	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°	133	12	4	5	6	82
35°	839	19	3	4	5	509
45°	1066	10	2	4	5	780
55°	544	2	1	4	5	453
65°	11	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°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
2.5°	12.4	12.4	12.4	12.4	12.4	12.4	12.2	12.2	12.4	12.2	12.2
5°	13.0	13.0	13.0	13.0	13.0	13.0	13.0	12.8	12.8	12.8	12.4
7.5°	13.1	13.0	13.0	13.0	13.0	13.0	13.0	13.0	12.8	12.8	12.2
10°	12.8	12.8	12.8	12.8	12.6	12.6	12.6	12.4	12.4	12.4	11.6
12.5°	12.8	12.8	12.8	12.8	12.6	12.6	12.4	12.4	12.2	12.0	10.6
15°	13.9	13.9	13.9	13.7	13.5	13.3	13.1	13.0	12.8	12.4	9.8
17.5°	20.4	19.8	19.6	18.8	17.9	16.9	16.1	15.3	14.5	13.9	9.4
20°	47.9	47.7	46.7	44.3	41.8	38.9	35.9	32.6	27.9	24.7	9.4
22.5°	83.0	81.8	80.1	78.3	73.8	68.5	63.0	56.7	50.6	44.2	10.0
25°	132.9	135.6	129.7	125.0	117.2	107.5	97.1	88.5	77.5	67.3	11.6
27.5°	231.0	232.7	221.2	205.9	187.6	167.4	147.8	133.0	114.6	97.7	14.5
30°	405.0	406.8	387.4	354.8	317.1	284.0	239.0	199.6	163.3	135.2	17.1
31°	505.5	491.8	469.2	437.6	389.9	339.9	285.9	238.2	192.3	155.4	17.9
32°	592.8	591.6	565.4	517.5	469.6	407.8	340.9	278.7	222.3	175.8	18.4
33°	695.8	688.0	650.9	605.8	542.4	480.2	393.8	322.8	253.1	198.6	18.8
34°	778.5	757.3	742.0	690.4	623.4	544.2	451.7	369.5	291.6	220.6	19.0
35°	839.1	834.6	804.8	756.7	688.6	607.5	514.1	418.0	323.8	246.1	19.0
36°	903.3	889.3	860.3	816.7	750.4	666.6	561.8	460.0	361.3	269.0	18.8
37°	943.5	935.3	906.4	861.5	796.5	716.5	615.2	504.3	391.1	292.0	18.4
38°	984.9	968.2	939.8	896.8	833.0	757.9	653.9	538.5	418.6	312.2	17.9
39°	1013.6	996.3	967.2	924.5	862.1	787.5	684.5	567.5	442.5	327.3	17.1
40°	1035.1	1018.5	989.0	945.1	883.4	810.8	710.0	593.2	462.5	340.5	16.1
41°	1048.5	1033.0	1003.7	960.0	898.2	824.2	726.7	609.9	476.1	349.3	15.1
42°	1059.7	1043.8	1013.9	969.2	907.2	835.6	736.9	620.5	485.3	353.8	14.3
43°	1065.9	1050.1	1021.0	975.3	912.7	840.9	742.4	625.4	488.4	353.2	13.0
44°	1069.5	1053.0	1023.8	978.0	915.0	842.2	742.7	624.4	486.3	348.5	11.8
45°	1065.6	1049.3	1021.0	975.3	910.9	837.9	738.8	619.1	478.0	339.3	10.4
46°	1040.0	1027.5	1001.6	959.6	898.0	826.9	728.8	608.9	465.3	327.9	8.8
47°	995.1	985.1	960.0	928.8	873.0	806.7	710.4	589.5	447.4	310.8	7.1
48°	948.2	933.5	910.1	878.2	831.1	770.4	680.0	561.0	420.3	288.5	6.3
49°	878.9	870.3	849.7	814.0	774.9	721.6	637.0	524.5	387.2	264.1	5.5
50°	815.4	809.5	780.6	754.3	712.9	663.1	578.7	476.5	346.0	233.9	4.9
51°	765.7	758.6	737.8	705.1	660.9	603.0	523.6	414.1	298.7	198.0	3.9
52°	713.9	710.0	691.5	657.8	614.4	556.7	470.0	361.1	252.8	167.4	3.1
53°	671.5	665.8	643.3	613.2	566.3	506.7	411.9	311.8	214.1	140.7	2.7
54°	609.7	607.3	592.8	561.4	510.6	445.6	359.3	262.6	178.6	119.3	2.4
55°	544.0	536.1	521.4	496.5	449.8	389.1	298.5	217.6	144.4	100.5	1.8
56°	463.9	463.5	437.2	416.4	375.0	310.6	238.4	169.9	117.3	83.8	1.6
57°	387.4	375.0	349.7	329.1	284.5	235.7	177.0	127.4	91.8	67.9	1.2
58°	286.5	280.0	273.4	243.1	201.9	167.0	126.4	89.5	67.9	51.8	0.8
59°	194.5	194.3	186.4	163.5	139.7	104.0	78.9	60.8	46.7	38.1	0.6
60°	146.8	143.3	127.6	112.4	87.9	65.7	46.7	35.9	29.0	24.5	0.4
62.5°	51.4	53.4	46.9	38.9	29.6	24.3	18.6	15.1	12.4	10.0	0.0
65°	10.6	11.6	10.0	9.4	7.5	6.5	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°	11.4	11.4	11.4	11.4	11.4	11.4
2.5°	12.0	11.6	11.0	10.8	10.6	10.6
5°	11.8	11.0	10.4	9.8	9.6	9.6
7.5°	11.2	10.2	9.4	9.0	8.8	8.6
10°	10.6	9.2	8.4	8.0	8.0	8.0
12.5°	9.4	8.2	7.5	7.3	7.5	7.5
15°	8.4	7.1	6.7	6.7	6.9	7.1
17.5°	7.3	6.3	5.9	6.1	6.3	6.5
20°	6.5	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	2.6	3.3	4.3	5.1	5.3
35°	2.4	2.6	3.3	4.1	4.9	5.3
36°	2.2	2.4	3.3	4.1	4.9	5.3
37°	2.0	2.4	3.1	4.1	4.9	5.3
38°	1.8	2.2	3.1	4.1	4.9	5.3
39°	1.6	2.2	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	2.6	3.7	4.9	5.3
50°	0.4	1.6	2.6	3.7	4.9	5.3
51°	0.2	1.4	2.6	3.7	4.9	5.3
52°	0.2	1.4	2.6	3.7	4.9	5.5
53°	0.2	1.4	2.6	3.7	4.9	5.3
54°	0.2	1.4	2.4	3.7	4.9	5.3
55°	0.2	1.4	2.4	3.7	4.9	5.3
56°	0.2	1.2	2.4	3.5	4.9	5.3
57°	0.4	1.2	2.4	3.5	4.9	5.1
58°	0.4	1.2	2.4	3.5	4.7	5.1
59°	0.4	1.2	2.4	3.5	4.7	5.1
60°	0.4	1.2	2.2	3.5	4.7	5.1
62.5°	0.4	1.2	2.2	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	2.6	3.7	4.1
75°	0.6	1.0	1.6	2.4	3.5	3.7
77.5°	0.6	1.0	1.4	2.2	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	2.2	2.4
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)