

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: P1337085

Luminaire Tested: P3A05R20B2750DE010 E3A451WMH_4000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337085
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-74)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R20B2750DE010 E3A451WMH_4000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R20 optic, 4000K CCT AND, 80CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

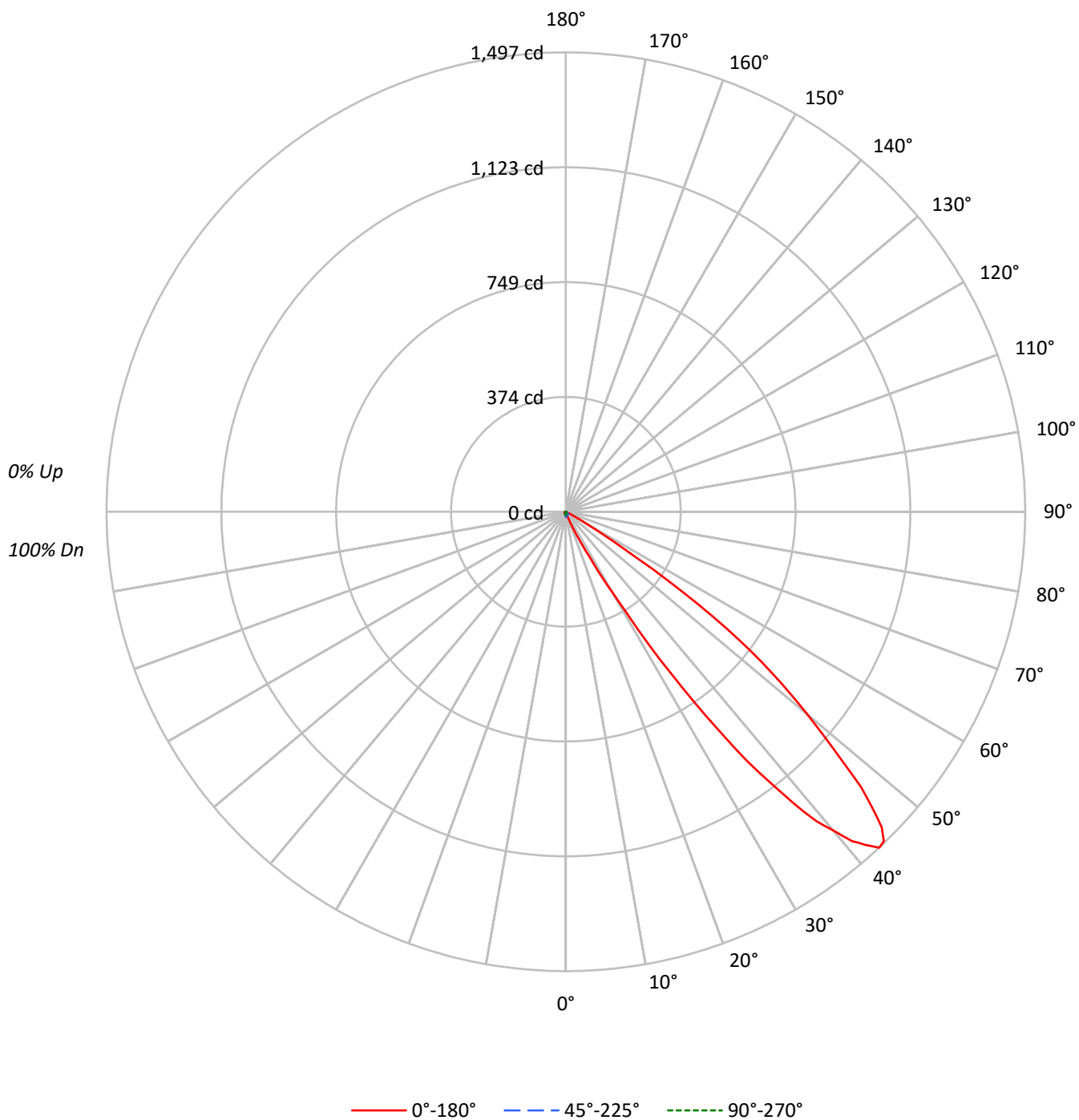
Lumens per Lamp: N/A
Luminaire Lumens: 208.0 lumens
Efficiency: N/A
Efficacy: 35.3 lumens/watt
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.13
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	65	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	38	52	44	38	50	43	38	48	42	37	35			
7	62	48	39	32	60	47	38	32	46	38	32	44	37	32	43	36	31	29			
8	57	42	33	27	55	42	33	27	40	33	27	39	32	27	38	31	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	19	31	24	19	30	24	19	17			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3180	3180	3180	3180	3180
5°	3698	3434	2972	2575	2487
10°	3652	3140	2360	2004	1959
15°	3201	2406	1725	1589	1680
20°	4737	2007	1283	1377	1517
25°	20421	2081	992	1234	1476
30°	77252	2532	836	1190	1443
35°	234204	3025	776	1205	1526
40°	388385	3034	658	1288	1632
45°	451427	2047	620	1333	1768
50°	350419	1126	614	1399	2013
55°	202812	765	612	1567	2179
60°	34295	175	526	1623	2412
65°	2646	0	623	1816	2750
70°	385	0	769	1988	3142
75°	339	169	847	2288	3643
80°	253	253	1263	2526	4167
85°	503	503	2013	2516	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 451427 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.2	0.6
10°-20°	2.6	1.3
20°-30°	8.3	4.0
30°-40°	53.0	25.5
40°-50°	97.1	46.7
50°-60°	39.9	19.2
60°-70°	3.4	1.6
70°-80°	1.7	0.8
80°-90°	0.8	0.4
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°	12.2	5.8
0°-40°	65.2	31.3
0°-60°	202.2	97.2
0°-90°	208.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	208.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	17	16	14	12	11	2
15°	14	11	8	7	7	4
25°	84	9	4	5	6	56
35°	875	11	3	4	6	554
45°	1456	7	2	4	6	1045
55°	530	2	2	4	6	464
65°	5	0	1	4	5	17
75°	0	0	1	3	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°	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
2.5°	15.8	15.8	15.8	15.6	15.6	15.8	15.6	15.6	15.6	15.6	15.4
5°	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.6	16.6	16.4	15.6
7.5°	17.2	17.2	17.2	17.2	17.0	17.0	17.0	17.0	16.8	16.6	15.2
10°	16.4	16.4	16.4	16.2	16.2	16.2	16.0	16.0	15.8	15.6	14.1
12.5°	14.9	14.9	14.9	14.9	14.7	14.7	14.5	14.5	14.3	14.1	12.3
15°	14.1	14.1	14.1	13.9	13.9	13.7	13.5	13.3	13.1	12.7	10.6
17.5°	15.2	15.2	15.1	15.1	14.7	14.3	14.1	13.5	13.1	12.5	9.4
20°	20.3	20.5	19.7	19.2	18.8	17.6	17.0	16.0	15.2	14.3	8.6
22.5°	41.0	40.3	38.9	36.7	34.2	32.1	28.1	25.0	22.9	19.9	8.4
25°	84.4	83.7	79.9	76.8	69.0	62.9	54.5	47.7	40.7	33.8	8.6
27.5°	160.5	155.2	154.2	140.0	129.0	113.4	97.1	83.5	71.0	57.1	9.2
30°	305.1	299.1	277.8	256.3	226.7	193.3	161.5	131.7	106.9	84.4	10.0
31°	387.2	393.1	368.1	324.9	281.3	238.5	194.9	157.2	125.1	97.1	10.4
32°	509.0	483.4	457.0	412.6	349.3	294.6	239.8	185.5	143.3	110.8	10.8
33°	624.1	609.1	568.8	513.5	437.5	360.6	289.7	218.9	165.6	127.4	10.9
34°	746.9	730.3	697.6	618.3	534.8	434.1	339.5	257.4	192.1	143.7	11.1
35°	874.9	867.9	805.0	736.1	633.5	512.1	399.5	299.7	218.1	158.5	11.3
36°	1003.7	981.1	931.8	831.3	724.2	584.3	462.5	338.9	244.5	176.1	11.3
37°	1100.7	1095.6	1030.3	932.4	806.5	661.3	516.8	382.5	271.1	191.2	11.3
38°	1207.6	1187.5	1121.2	1021.5	883.9	731.8	573.7	420.5	296.3	204.9	11.1
39°	1297.7	1267.8	1201.0	1102.5	951.6	785.4	618.9	457.2	318.6	216.2	10.9
40°	1356.8	1336.0	1266.3	1155.4	1012.9	836.0	664.6	487.5	335.2	224.8	10.6
41°	1421.9	1387.5	1318.5	1207.0	1057.5	880.6	693.3	507.4	348.1	230.5	10.2
42°	1460.8	1432.6	1350.7	1241.6	1089.4	906.0	716.8	522.7	356.0	233.4	9.4
43°	1497.1	1458.8	1379.0	1261.8	1110.5	924.0	727.5	529.7	357.7	233.4	8.4
44°	1492.2	1455.9	1373.2	1264.5	1115.2	929.3	732.0	529.9	355.0	230.5	7.4
45°	1455.7	1419.5	1345.0	1240.7	1098.4	918.9	723.0	522.1	347.4	225.4	6.6
46°	1388.6	1352.7	1295.6	1200.8	1067.1	895.5	702.1	505.1	334.6	217.2	5.9
47°	1315.7	1280.7	1222.3	1136.5	1013.7	853.6	671.8	481.3	316.9	205.2	5.3
48°	1210.0	1188.1	1129.4	1056.1	939.6	788.1	618.7	442.4	293.0	189.8	4.5
49°	1116.5	1093.5	1042.1	963.3	843.1	711.9	555.1	395.0	261.9	172.6	3.9
50°	1027.2	1007.1	959.6	870.6	755.9	619.8	469.3	335.4	222.8	151.3	3.3
51°	939.8	924.8	876.3	794.6	678.1	549.1	406.6	279.3	184.1	125.5	3.1
52°	852.1	850.3	797.7	715.0	602.4	478.5	345.6	235.7	156.2	105.4	2.9
53°	757.6	746.3	700.4	626.1	518.0	405.0	293.0	198.8	134.5	89.7	2.5
54°	650.1	637.4	588.2	521.1	423.2	331.7	236.1	160.7	112.0	75.8	2.3
55°	530.5	508.8	473.0	404.2	330.5	253.1	182.4	127.3	89.5	63.1	2.0
56°	402.5	380.8	360.6	310.0	242.6	188.8	135.9	97.5	70.0	49.8	1.8
57°	279.9	278.7	245.7	206.8	162.2	128.6	93.0	68.8	49.5	38.7	1.4
58°	181.6	175.5	154.4	131.9	106.1	80.3	59.8	46.7	33.6	26.4	1.2
59°	127.3	115.1	103.8	88.0	66.9	50.6	38.5	29.9	23.3	18.4	0.8
60°	78.2	75.6	68.0	53.6	43.4	35.8	28.7	22.1	17.0	13.1	0.4
62.5°	22.3	22.7	20.5	18.2	15.6	13.5	12.1	10.4	8.6	6.8	0.0
65°	5.1	4.9	5.3	4.9	4.5	4.5	3.9	3.5	3.1	2.9	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°	1.6	1.6	1.4	1.4	1.4	1.2	1.2	1.0	1.0	0.8	0.0
70°	0.6	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.2	0.2	0.0
72.5°	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.4	0.2	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	0.2	0.4	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	0.2
85°	0.2	0.2	0.2	0.2	0.0	0.0	0.2	0.2	0.2	0.0	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°	14.5	14.5	14.5	14.5	14.5	14.5
2.5°	15.1	14.3	13.7	13.1	12.9	12.9
5°	14.7	13.5	12.3	11.7	11.3	11.3
7.5°	13.5	12.1	10.9	10.4	10.2	10.2
10°	12.1	10.6	9.4	9.0	9.0	8.8
12.5°	10.6	9.0	8.2	8.0	8.0	8.0
15°	8.8	7.6	7.0	7.0	7.2	7.4
17.5°	7.4	6.3	6.1	6.5	6.8	6.8
20°	6.3	5.5	5.5	5.9	6.3	6.5
22.5°	5.3	4.7	4.9	5.5	6.1	6.3
25°	4.7	4.1	4.5	5.1	5.7	6.1
27.5°	3.9	3.7	4.1	4.9	5.7	5.9
30°	3.3	3.3	3.9	4.7	5.5	5.7
31°	3.1	3.1	3.9	4.7	5.5	5.7
32°	2.9	3.1	3.7	4.7	5.5	5.7
33°	2.7	2.9	3.7	4.5	5.5	5.7
34°	2.5	2.9	3.7	4.5	5.5	5.7
35°	2.3	2.9	3.7	4.5	5.5	5.7
36°	2.2	2.7	3.5	4.5	5.5	5.7
37°	2.0	2.7	3.5	4.5	5.5	5.7
38°	1.8	2.5	3.5	4.5	5.5	5.7
39°	1.8	2.5	3.3	4.5	5.3	5.7
40°	1.6	2.3	3.3	4.5	5.3	5.7
41°	1.4	2.3	3.3	4.3	5.3	5.7
42°	1.2	2.2	3.1	4.3	5.3	5.7
43°	1.0	2.2	3.1	4.3	5.3	5.7
44°	1.0	2.0	3.1	4.3	5.3	5.7
45°	0.8	2.0	3.1	4.3	5.3	5.7
46°	0.6	2.0	3.1	4.3	5.3	5.7
47°	0.6	1.8	2.9	4.3	5.3	5.7
48°	0.4	1.8	2.9	4.3	5.3	5.7
49°	0.4	1.8	2.9	4.3	5.3	5.9
50°	0.4	1.8	2.9	4.1	5.3	5.9
51°	0.2	1.8	2.9	4.1	5.3	5.9
52°	0.2	1.8	2.7	4.1	5.5	5.9
53°	0.2	1.6	2.7	4.1	5.5	5.9
54°	0.2	1.6	2.7	4.1	5.5	5.7
55°	0.2	1.6	2.7	4.1	5.3	5.7
56°	0.2	1.4	2.7	4.1	5.3	5.7
57°	0.2	1.4	2.5	3.9	5.3	5.5
58°	0.2	1.4	2.5	3.9	5.3	5.5
59°	0.2	1.4	2.5	3.9	5.1	5.5
60°	0.4	1.2	2.3	3.7	5.1	5.5
62.5°	0.4	1.2	2.3	3.7	4.9	5.3
65°	0.4	1.2	2.2	3.5	4.9	5.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.4	1.0	2.0	3.3	4.7	5.1
70°	0.4	1.2	2.0	3.1	4.5	4.9
72.5°	0.6	1.0	1.8	2.9	4.3	4.7
75°	0.6	1.0	1.8	2.7	4.1	4.3
77.5°	0.8	1.0	1.6	2.3	3.7	3.9
80°	0.8	1.0	1.4	2.0	3.1	3.3
82.5°	0.8	1.0	1.0	1.6	2.3	2.5
85°	0.6	0.8	0.8	1.0	1.6	1.8
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)