

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: P1337072

Luminaire Tested: P3A05R20B2750DE010 E3A451MW_2700K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337072
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 E3A451MW_2700K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R20 optic, 2700K CCT AND, 90CRI , E3A451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

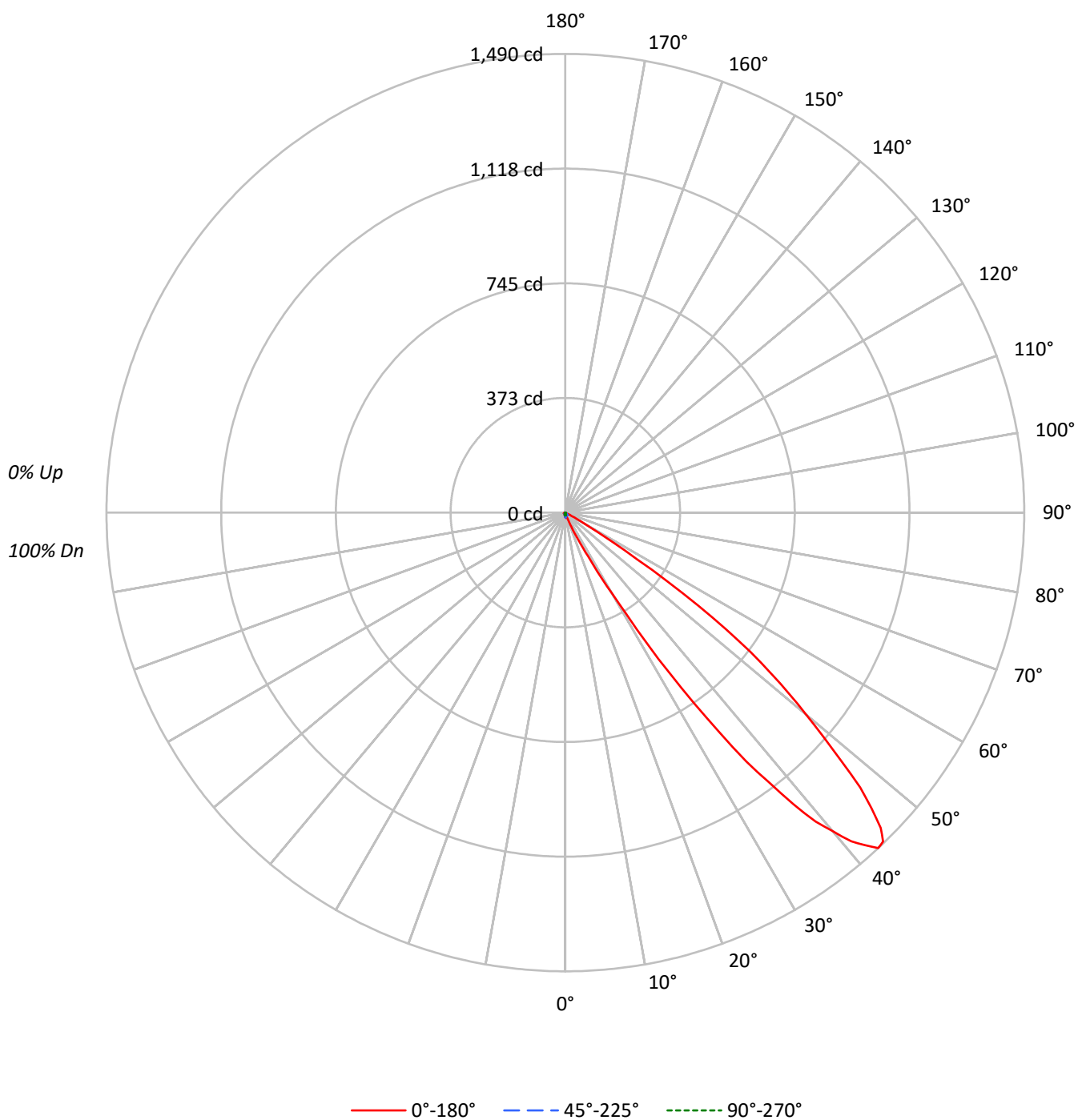
Lumens per Lamp: N/A
Luminaire Lumens: 207.0 lumens
Efficiency: N/A
Efficacy: 35.1 lumens/watt
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.14
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1337072

CATALOG NUMBER: P3A05R20B2750DE010 E3A451MW_2700K

Luminous Intensity Polar Plot



CATALOG NUMBER: P3A05R20B2750DE010 E3A451MW_2700K

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	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°	3158	3158	3158	3158	3158
5°	3676	3434	2950	2575	2487
10°	3629	3117	2338	1982	1959
15°	3178	2384	1725	1589	1680
20°	4714	2007	1260	1353	1493
25°	20324	2081	992	1234	1452
30°	76898	2507	836	1190	1418
35°	233080	3025	776	1205	1499
40°	386496	3006	658	1288	1603
45°	449256	2047	589	1333	1737
50°	348748	1126	614	1399	1979
55°	201857	726	612	1567	2141
60°	34120	175	526	1623	2368
65°	2646	0	623	1816	2750
70°	385	0	769	1988	3142
75°	339	169	847	2288	3643
80°	253	253	1263	2399	4167
85°	503	503	2013	2516	4529

MAXIMUM LUMINANCE 45°-90°:

Luminance: 449256 cd/sqm

TEST NUMBER: P1337072

CATALOG NUMBER: P3A05R20B2750DE010 E3A451MW_2700K

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°	52.8	25.5
40°-50°	96.6	46.7
50°-60°	39.7	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°	12.1	5.8
0°-40°	64.9	31.3
0°-60°	201.2	97.2
0°-90°	207.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	207.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	17	16	13	12	11	2
15°	14	10	8	7	7	4
25°	84	9	4	5	6	55
35°	871	11	3	4	6	551
45°	1449	7	2	4	6	1040
55°	528	2	2	4	6	462
65°	5	0	1	4	5	16
75°	0	0	1	3	4	0
85°	0	0	1	1	2	0
90°	0	0	0	0	0	

TEST NUMBER: P1337072

CATALOG NUMBER: P3A05R20B2750DE010 E3A451MW_2700K

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
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°	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.5	16.5	16.3	15.6
7.5°	17.1	17.1	17.1	17.1	16.9	16.9	16.9	16.9	16.7	16.5	15.2
10°	16.3	16.3	16.3	16.1	16.1	16.1	16.0	16.0	15.8	15.6	14.0
12.5°	14.8	14.8	14.8	14.8	14.6	14.6	14.4	14.4	14.2	14.0	12.3
15°	14.0	14.0	14.0	13.8	13.8	13.6	13.4	13.2	13.0	12.6	10.5
17.5°	15.2	15.2	15.0	15.0	14.6	14.2	14.0	13.4	13.0	12.5	9.3
20°	20.2	20.4	19.6	19.1	18.7	17.5	16.9	16.0	15.2	14.2	8.6
22.5°	40.9	40.1	38.7	36.6	34.0	31.9	28.0	24.9	22.8	19.8	8.4
25°	84.0	83.3	79.6	76.5	68.7	62.6	54.3	47.5	40.5	33.7	8.6
27.5°	159.7	154.5	153.5	139.3	128.4	112.8	96.7	83.1	70.6	56.8	9.1
30°	303.7	297.6	276.4	255.0	225.7	192.4	160.7	131.1	106.4	84.0	9.9
31°	385.4	391.2	366.3	323.3	279.9	237.3	193.9	156.4	124.5	96.7	10.3
32°	506.6	481.1	454.8	410.7	347.6	293.2	238.7	184.6	142.6	110.3	10.7
33°	621.1	606.2	566.1	511.0	435.4	358.9	288.3	217.9	164.8	126.8	10.9
34°	743.3	726.8	694.3	615.3	532.2	432.1	337.9	256.2	191.2	143.0	11.1
35°	870.7	863.7	801.1	732.6	630.5	509.7	397.6	298.2	217.1	157.8	11.3
36°	998.9	976.4	927.3	827.3	720.7	581.5	460.3	337.3	243.4	175.3	11.3
37°	1095.4	1090.3	1025.4	927.9	802.6	658.1	514.3	380.7	269.8	190.3	11.3
38°	1201.8	1181.8	1115.8	1016.6	879.7	728.3	570.9	418.4	294.9	203.9	11.1
39°	1291.5	1261.7	1195.2	1097.2	947.0	781.6	615.9	455.0	317.1	215.2	10.9
40°	1350.2	1329.6	1260.2	1149.9	1008.1	832.0	661.4	485.2	333.6	223.7	10.5
41°	1415.0	1380.8	1312.1	1201.2	1052.4	876.4	690.0	505.0	346.5	229.4	10.1
42°	1453.7	1425.7	1344.2	1235.7	1084.1	901.7	713.3	520.2	354.2	232.3	9.3
43°	1489.9	1451.8	1372.4	1255.7	1105.1	919.5	724.0	527.2	356.0	232.3	8.4
44°	1485.1	1448.9	1366.6	1258.4	1109.8	924.8	728.5	527.4	353.3	229.4	7.4
45°	1448.7	1412.7	1338.6	1234.7	1093.1	914.5	719.6	519.6	345.7	224.3	6.6
46°	1382.0	1346.2	1289.4	1195.0	1061.9	891.1	698.8	502.7	333.0	216.1	5.8
47°	1309.4	1274.6	1216.4	1131.0	1008.8	849.5	668.6	478.9	315.3	204.3	5.3
48°	1204.1	1182.4	1124.0	1051.1	935.1	784.4	615.7	440.2	291.6	188.9	4.5
49°	1111.2	1088.2	1037.0	958.7	839.0	708.5	552.5	393.1	260.7	171.8	3.9
50°	1022.3	1002.2	955.0	866.4	752.3	616.9	467.1	333.8	221.8	150.6	3.3
51°	935.3	920.3	872.1	790.8	674.8	546.4	404.6	278.0	183.2	124.9	3.1
52°	848.0	846.2	793.9	711.6	599.5	476.2	343.9	234.6	155.4	104.9	2.9
53°	754.0	742.7	697.0	623.1	515.5	403.1	291.6	197.8	133.8	89.3	2.5
54°	647.0	634.4	585.3	518.6	421.2	330.1	235.0	159.9	111.5	75.5	2.3
55°	528.0	506.4	470.8	402.3	329.0	251.9	181.5	126.6	89.1	62.8	1.9
56°	400.5	378.9	358.9	308.5	241.4	187.9	135.2	97.1	69.6	49.6	1.8
57°	278.6	277.4	244.5	205.8	161.5	128.0	92.6	68.5	49.2	38.5	1.4
58°	180.7	174.7	153.7	131.3	105.6	80.0	59.5	46.5	33.5	26.3	1.2
59°	126.6	114.6	103.3	87.5	66.5	50.4	38.3	29.8	23.1	18.3	0.8
60°	77.8	75.3	67.7	53.3	43.2	35.6	28.6	22.0	16.9	13.0	0.4
62.5°	22.2	22.6	20.4	18.1	15.6	13.4	12.1	10.3	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



TEST NUMBER: P1337072

CATALOG NUMBER: P3A05R20B2750DE010 E3A451MW_2700K

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

TEST NUMBER: P1337072

CATALOG NUMBER: P3A05R20B2750DE010 E3A451MW_2700K

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	14.4	14.4	14.4	14.4	14.4	14.4
2.5°	15.0	14.2	13.6	13.0	12.8	12.8
5°	14.6	13.4	12.3	11.7	11.3	11.3
7.5°	13.4	12.1	10.9	10.3	10.1	10.1
10°	12.1	10.5	9.3	8.9	8.9	8.8
12.5°	10.5	8.9	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	6.2	6.0	6.4	6.8	6.8
20°	6.2	5.4	5.4	5.8	6.2	6.4
22.5°	5.3	4.7	4.9	5.4	6.0	6.2
25°	4.7	4.1	4.5	5.1	5.6	6.0
27.5°	3.9	3.7	4.1	4.9	5.6	5.8
30°	3.3	3.3	3.9	4.7	5.4	5.6
31°	3.1	3.1	3.9	4.7	5.4	5.6
32°	2.9	3.1	3.7	4.7	5.4	5.6
33°	2.7	2.9	3.7	4.5	5.4	5.6
34°	2.5	2.9	3.7	4.5	5.4	5.6
35°	2.3	2.9	3.7	4.5	5.4	5.6
36°	2.1	2.7	3.5	4.5	5.4	5.6
37°	1.9	2.7	3.5	4.5	5.4	5.6
38°	1.8	2.5	3.5	4.5	5.4	5.6
39°	1.8	2.5	3.3	4.5	5.3	5.6
40°	1.6	2.3	3.3	4.5	5.3	5.6
41°	1.4	2.3	3.3	4.3	5.3	5.6
42°	1.2	2.1	3.1	4.3	5.3	5.6
43°	1.0	2.1	3.1	4.3	5.3	5.6
44°	1.0	1.9	3.1	4.3	5.3	5.6
45°	0.8	1.9	3.1	4.3	5.3	5.6
46°	0.6	1.9	3.1	4.3	5.3	5.6
47°	0.6	1.8	2.9	4.3	5.3	5.6
48°	0.4	1.8	2.9	4.3	5.3	5.6
49°	0.4	1.8	2.9	4.3	5.3	5.8
50°	0.4	1.8	2.9	4.1	5.3	5.8
51°	0.2	1.8	2.9	4.1	5.3	5.8
52°	0.2	1.8	2.7	4.1	5.4	5.8
53°	0.2	1.6	2.7	4.1	5.4	5.8
54°	0.2	1.6	2.7	4.1	5.4	5.6
55°	0.2	1.6	2.7	4.1	5.3	5.6
56°	0.2	1.4	2.7	4.1	5.3	5.6
57°	0.2	1.4	2.5	3.9	5.3	5.4
58°	0.2	1.4	2.5	3.9	5.3	5.4
59°	0.2	1.4	2.5	3.9	5.1	5.4
60°	0.4	1.2	2.3	3.7	5.1	5.4
62.5°	0.4	1.2	2.3	3.7	4.9	5.3
65°	0.4	1.2	2.1	3.5	4.9	5.3



TEST NUMBER: P1337072

CATALOG NUMBER: P3A05R20B2750DE010 E3A451MW_2700K

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.4	1.0	1.9	3.3	4.7	5.1
70°	0.4	1.2	1.9	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	1.9	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)