

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: P1337058

Luminaire Tested: P3A05R20B2750DE010 E3A451GPH_3000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337058
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 E3A451GPH_3000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R20 optic, 3000K CCT AND, 90CRI , E3A451GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

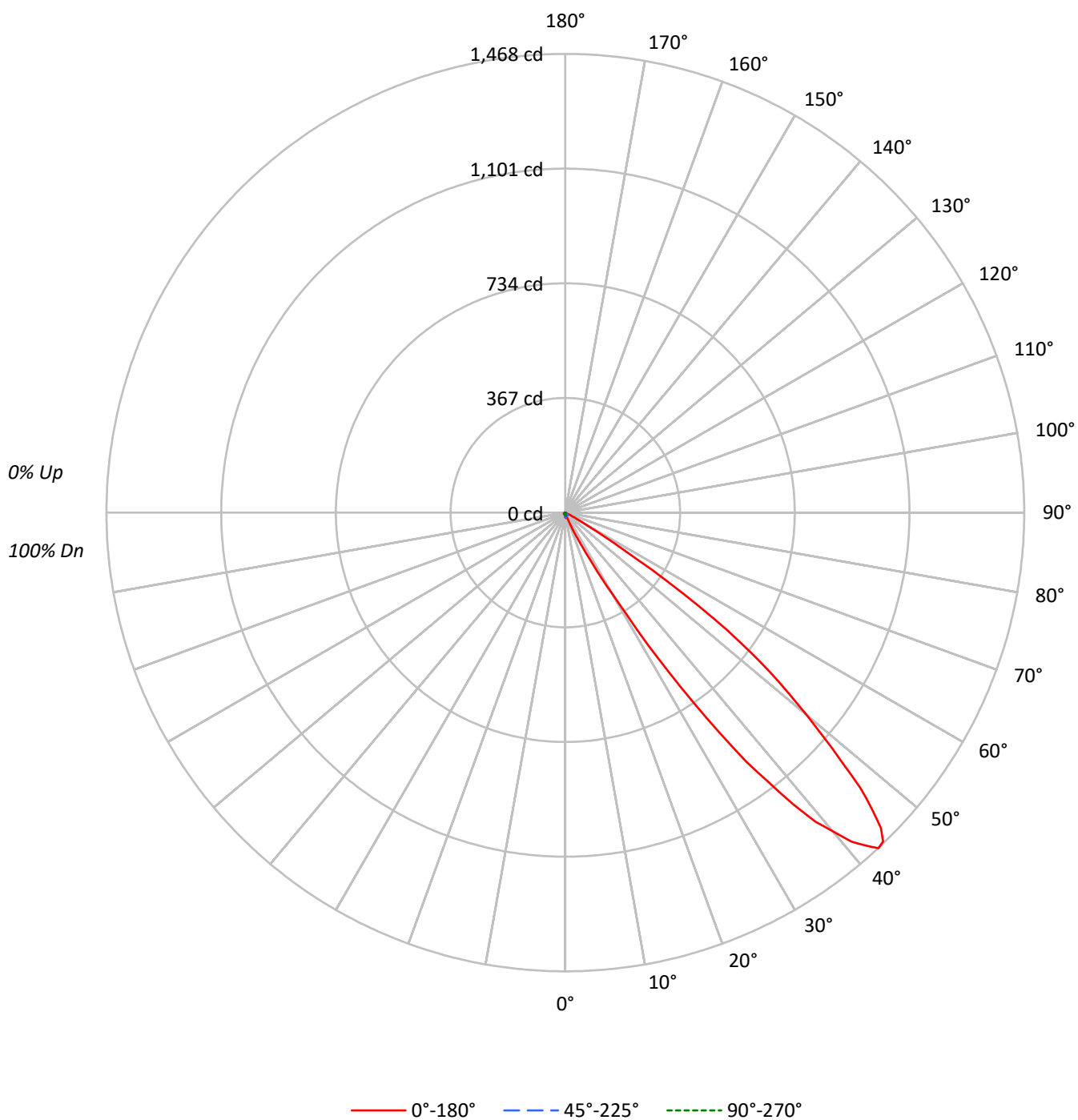
Lumens per Lamp: N/A
Luminaire Lumens: 204.0 lumens
Efficiency: N/A
Efficacy: 34.6 lumens/watt
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.13
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	3114	3114	3114	3114	3114
5°	3632	3368	2906	2531	2443
10°	3585	3073	2316	1959	1915
15°	3133	2361	1703	1566	1657
20°	4644	1960	1260	1353	1470
25°	20033	2032	968	1210	1428
30°	75784	2481	836	1165	1418
35°	229707	2971	776	1178	1499
40°	380914	2977	658	1260	1603
45°	442744	2016	589	1302	1737
50°	343665	1126	580	1365	1979
55°	198913	726	573	1529	2141
60°	33638	175	526	1579	2368
65°	2594	0	623	1816	2698
70°	385	0	769	1988	3077
75°	339	169	847	2288	3558
80°	253	253	1263	2399	4167
85°	503	503	2013	2516	4277

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 442744 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°	8.1	4.0
30°-40°	52.0	25.5
40°-50°	95.2	46.7
50°-60°	39.1	19.2
60°-70°	3.3	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°	11.9	5.8
0°-40°	63.9	31.3
0°-60°	198.3	97.2
0°-90°	204.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	204.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	16	15	13	12	11	2
15°	14	10	8	7	7	4
25°	83	8	4	5	6	54
35°	858	11	3	4	6	543
45°	1428	6	2	4	6	1025
55°	520	2	2	4	6	455
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	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
2.5°	15.5	15.5	15.5	15.3	15.3	15.5	15.3	15.3	15.3	15.3	15.1
5°	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.3	16.3	16.1	15.3
7.5°	16.9	16.9	16.9	16.9	16.7	16.7	16.7	16.7	16.5	16.3	15.0
10°	16.1	16.1	16.1	15.9	15.9	15.9	15.7	15.7	15.5	15.3	13.8
12.5°	14.6	14.6	14.6	14.6	14.4	14.4	14.2	14.2	14.0	13.8	12.1
15°	13.8	13.8	13.8	13.6	13.6	13.4	13.2	13.0	12.8	12.5	10.4
17.5°	15.0	15.0	14.8	14.8	14.4	14.0	13.8	13.2	12.8	12.3	9.2
20°	19.9	20.1	19.4	18.8	18.4	17.3	16.7	15.7	15.0	14.0	8.4
22.5°	40.3	39.5	38.2	36.0	33.5	31.4	27.6	24.5	22.4	19.6	8.2
25°	82.8	82.1	78.4	75.3	67.7	61.7	53.5	46.8	39.9	33.2	8.4
27.5°	157.4	152.2	151.3	137.3	126.5	111.2	95.3	81.9	69.6	56.0	9.0
30°	299.3	293.3	272.4	251.3	222.4	189.6	158.4	129.2	104.9	82.8	9.8
31°	379.8	385.5	361.0	318.6	275.9	233.9	191.1	154.1	122.7	95.3	10.2
32°	499.2	474.1	448.2	404.7	342.6	288.9	235.2	181.9	140.5	108.7	10.5
33°	612.1	597.4	557.9	503.6	429.1	353.7	284.1	214.7	162.4	125.0	10.7
34°	732.5	716.2	684.2	606.4	524.5	425.8	333.0	252.5	188.5	140.9	10.9
35°	858.1	851.2	789.5	722.0	621.3	502.3	391.9	293.9	214.0	155.5	11.1
36°	984.4	962.2	913.9	815.4	710.3	573.0	453.6	332.4	239.8	172.7	11.1
37°	1079.5	1074.5	1010.5	914.5	791.0	648.6	506.9	375.2	265.9	187.5	11.1
38°	1184.4	1164.7	1099.7	1001.9	866.9	717.8	562.7	412.4	290.6	200.9	10.9
39°	1272.8	1243.4	1177.9	1081.3	933.3	770.3	607.0	448.4	312.5	212.0	10.7
40°	1330.7	1310.4	1241.9	1133.2	993.5	820.0	651.8	478.1	328.8	220.5	10.4
41°	1394.5	1360.8	1293.1	1183.8	1037.2	863.7	680.0	497.7	341.4	226.0	10.0
42°	1432.7	1405.1	1324.7	1217.8	1068.4	888.6	703.0	512.6	349.1	228.9	9.2
43°	1468.3	1430.7	1352.5	1237.5	1089.1	906.2	713.6	519.5	350.8	228.9	8.2
44°	1463.5	1427.9	1346.8	1240.2	1093.7	911.4	718.0	519.7	348.1	226.0	7.3
45°	1427.7	1392.2	1319.2	1216.8	1077.2	901.2	709.1	512.1	340.7	221.0	6.5
46°	1361.9	1326.6	1270.7	1177.7	1046.6	878.2	688.6	495.4	328.2	213.0	5.8
47°	1290.4	1256.1	1198.8	1114.6	994.2	837.2	658.9	472.0	310.8	201.3	5.2
48°	1186.7	1165.2	1107.7	1035.8	921.6	773.0	606.8	433.8	287.4	186.2	4.4
49°	1095.1	1072.4	1022.0	944.8	826.9	698.2	544.5	387.5	256.9	169.3	3.8
50°	1007.4	987.7	941.1	853.9	741.4	607.9	460.3	329.0	218.6	148.4	3.3
51°	921.8	907.0	859.4	779.3	665.0	538.5	398.8	274.0	180.6	123.1	3.1
52°	835.7	833.9	782.4	701.3	590.9	469.3	338.9	231.2	153.2	103.3	2.9
53°	743.1	732.0	686.9	614.1	508.0	397.2	287.4	195.0	131.9	88.0	2.5
54°	637.6	625.2	576.9	511.1	415.1	325.3	231.6	157.6	109.9	74.4	2.3
55°	520.3	499.0	463.9	396.5	324.2	248.3	178.9	124.8	87.8	61.9	1.9
56°	394.7	373.5	353.7	304.1	237.9	185.2	133.2	95.7	68.6	48.9	1.7
57°	274.5	273.4	241.0	202.8	159.1	126.1	91.3	67.5	48.5	38.0	1.3
58°	178.1	172.2	151.5	129.4	104.1	78.8	58.7	45.8	33.0	25.9	1.2
59°	124.8	112.9	101.8	86.3	65.6	49.7	37.8	29.3	22.8	18.0	0.8
60°	76.7	74.2	66.7	52.5	42.6	35.1	28.2	21.7	16.7	12.8	0.4
62.5°	21.9	22.2	20.1	17.8	15.3	13.2	11.9	10.2	8.4	6.7	0.0
65°	5.0	4.8	5.2	4.8	4.4	4.4	3.8	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°	1.5	1.5	1.3	1.3	1.3	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°	14.2	14.2	14.2	14.2	14.2	14.2
2.5°	14.8	14.0	13.4	12.8	12.7	12.7
5°	14.4	13.2	12.1	11.5	11.1	11.1
7.5°	13.2	11.9	10.7	10.2	10.0	10.0
10°	11.9	10.4	9.2	8.8	8.8	8.6
12.5°	10.4	8.8	8.1	7.9	7.9	7.9
15°	8.6	7.5	6.9	6.9	7.1	7.3
17.5°	7.3	6.1	5.9	6.3	6.7	6.7
20°	6.1	5.4	5.4	5.8	6.1	6.3
22.5°	5.2	4.6	4.8	5.4	5.9	6.1
25°	4.6	4.0	4.4	5.0	5.6	5.9
27.5°	3.8	3.6	4.0	4.8	5.6	5.8
30°	3.3	3.3	3.8	4.6	5.4	5.6
31°	3.1	3.1	3.8	4.6	5.4	5.6
32°	2.9	3.1	3.6	4.6	5.4	5.6
33°	2.7	2.9	3.6	4.4	5.4	5.6
34°	2.5	2.9	3.6	4.4	5.4	5.6
35°	2.3	2.9	3.6	4.4	5.4	5.6
36°	2.1	2.7	3.5	4.4	5.4	5.6
37°	1.9	2.7	3.5	4.4	5.4	5.6
38°	1.7	2.5	3.5	4.4	5.4	5.6
39°	1.7	2.5	3.3	4.4	5.2	5.6
40°	1.5	2.3	3.3	4.4	5.2	5.6
41°	1.3	2.3	3.3	4.2	5.2	5.6
42°	1.2	2.1	3.1	4.2	5.2	5.6
43°	1.0	2.1	3.1	4.2	5.2	5.6
44°	1.0	1.9	3.1	4.2	5.2	5.6
45°	0.8	1.9	3.1	4.2	5.2	5.6
46°	0.6	1.9	3.1	4.2	5.2	5.6
47°	0.6	1.7	2.9	4.2	5.2	5.6
48°	0.4	1.7	2.9	4.2	5.2	5.6
49°	0.4	1.7	2.9	4.2	5.2	5.8
50°	0.4	1.7	2.9	4.0	5.2	5.8
51°	0.2	1.7	2.9	4.0	5.2	5.8
52°	0.2	1.7	2.7	4.0	5.4	5.8
53°	0.2	1.5	2.7	4.0	5.4	5.8
54°	0.2	1.5	2.7	4.0	5.4	5.6
55°	0.2	1.5	2.7	4.0	5.2	5.6
56°	0.2	1.3	2.7	4.0	5.2	5.6
57°	0.2	1.3	2.5	3.8	5.2	5.4
58°	0.2	1.3	2.5	3.8	5.2	5.4
59°	0.2	1.3	2.5	3.8	5.0	5.4
60°	0.4	1.2	2.3	3.6	5.0	5.4
62.5°	0.4	1.2	2.3	3.6	4.8	5.2
65°	0.4	1.2	2.1	3.5	4.8	5.2



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.4	1.0	1.9	3.3	4.6	5.0
70°	0.4	1.2	1.9	3.1	4.4	4.8
72.5°	0.6	1.0	1.7	2.9	4.2	4.6
75°	0.6	1.0	1.7	2.7	4.0	4.2
77.5°	0.8	1.0	1.5	2.3	3.6	3.8
80°	0.8	1.0	1.3	1.9	3.1	3.3
82.5°	0.8	1.0	1.0	1.5	2.3	2.5
85°	0.6	0.8	0.8	1.0	1.5	1.7
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)