

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: P1336558

Luminaire Tested: P3A05R15B2750DE010 E3A451GPH_3000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336558
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-73)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R15B2750DE010 E3A451GPH_3000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R15 optic, 3000K CCT AND, 90CRI , E3A451GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

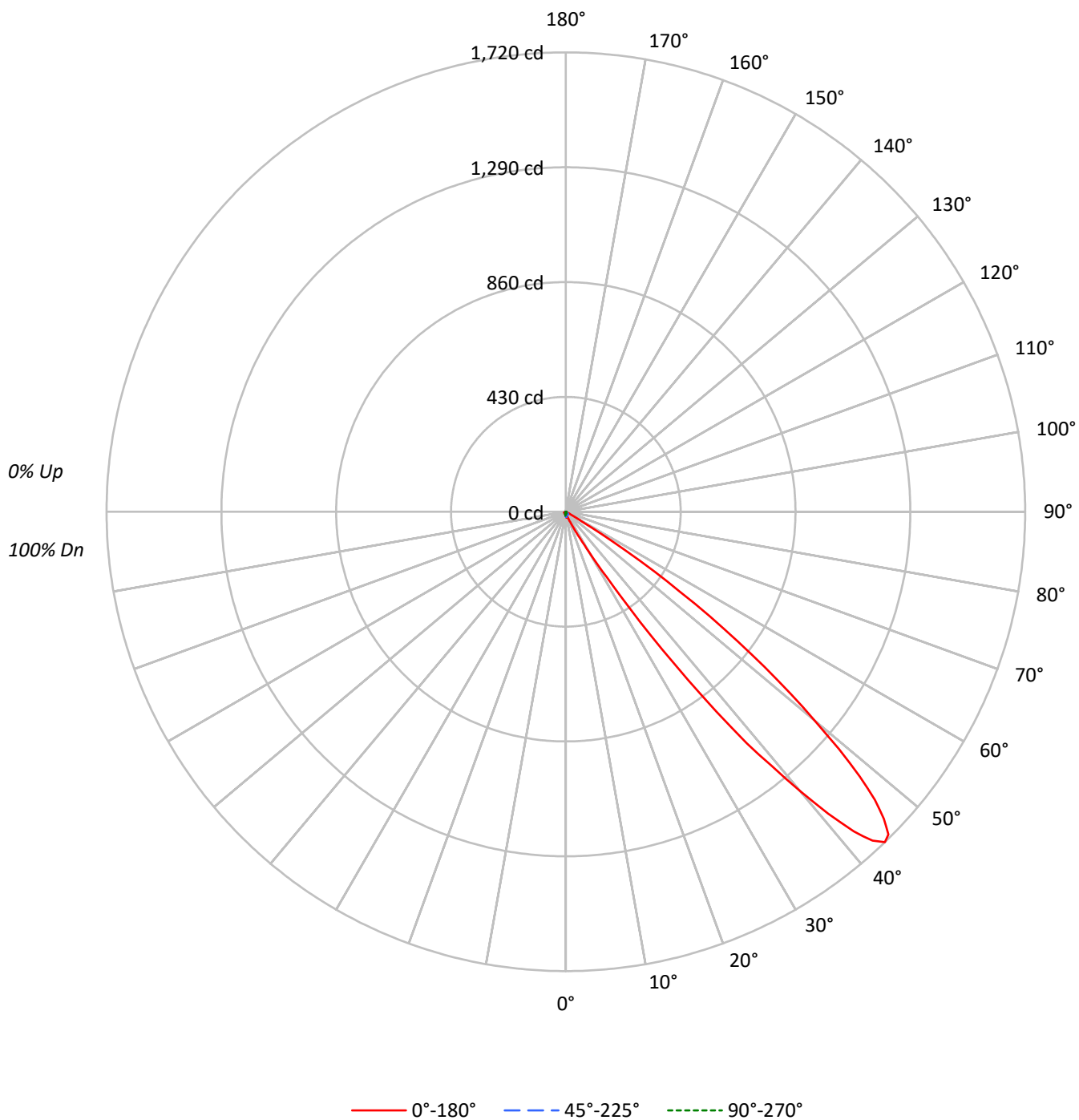
Lumens per Lamp: N/A
Luminaire Lumens: 192.0 lumens
Efficiency: N/A
Efficacy: 32.5 lumens/watt
Spacing Criteria (0/90/45): 3.26 / 0.48 / 1.09
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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							
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	107	104	100	97	99	97	94	96	93	91	92	90	89	87						
2	101	93	87	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73						
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61						
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	53	50						
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	54	49	44	42						
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35						
7	62	47	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29						
8	56	42	33	27	55	41	33	27	40	32	26	39	31	26	37	31	26	24						
9	52	37	28	22	50	37	28	22	35	28	22	34	27	22	33	27	22	20						
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	23	19	17						

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3728	3728	3728	3728	3728
5°	4644	4138	3368	2950	2906
10°	4565	3540	2605	2293	2338
15°	3791	2520	1862	1907	2043
20°	6557	2007	1423	1657	1867
25°	14638	2419	1161	1524	1766
30°	43779	2962	1013	1494	1848
35°	168512	3319	910	1526	1954
40°	391104	2891	887	1603	2090
45°	529729	2202	775	1737	2264
50°	415372	1296	785	1842	2490
55°	199372	573	726	1988	2714
60°	18200	88	658	2105	3026
65°	1972	0	571	2179	3269
70°	513	0	705	2308	3590
75°	508	169	932	2626	4067
80°	505	505	1263	2652	4293
85°	503	503	2013	2516	4780

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 529729 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.5	0.8
10°-20°	3.0	1.6
20°-30°	7.3	3.8
30°-40°	39.7	20.7
40°-50°	96.2	50.1
50°-60°	38.4	20.0
60°-70°	3.3	1.7
70°-80°	1.9	1.0
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°	11.7	6.1
0°-40°	51.5	26.8
0°-60°	186.0	96.9
0°-90°	192.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	192.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	17	17	17	17	17	
5°	21	19	15	13	13	2
15°	17	11	8	8	9	6
25°	60	10	5	6	7	36
35°	630	12	3	6	7	445
45°	1708	7	2	6	7	1205
55°	522	2	2	5	7	486
65°	4	0	1	4	6	10
75°	1	0	1	3	5	1
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°	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
2.5°	19.1	19.1	19.3	19.1	19.1	19.1	19.1	19.0	19.0	19.0	18.4
5°	21.1	21.1	21.1	21.1	20.9	20.9	20.9	20.7	20.7	20.5	18.8
7.5°	21.8	21.8	21.6	21.6	21.4	21.4	21.3	21.1	20.9	20.7	18.0
10°	20.5	20.5	20.5	20.3	20.3	20.1	19.9	19.7	19.5	19.1	15.9
12.5°	18.2	18.2	18.4	18.2	18.0	17.8	17.4	17.2	17.0	16.7	13.2
15°	16.7	16.7	16.7	16.5	16.3	15.9	15.7	15.3	15.1	14.5	11.1
17.5°	21.3	21.3	21.1	20.7	19.9	19.3	18.4	17.6	16.7	15.5	9.6
20°	28.1	28.1	27.8	27.4	26.4	25.5	23.9	22.6	21.1	19.7	8.6
22.5°	40.8	41.4	40.2	38.9	37.5	35.2	33.1	31.0	28.3	26.0	8.8
25°	60.5	61.1	60.5	57.4	54.9	51.9	47.9	43.6	39.1	34.8	10.0
27.5°	98.0	98.4	97.4	90.0	86.0	77.9	70.8	63.9	56.3	48.6	10.9
30°	172.9	173.1	166.9	152.0	138.8	121.2	106.3	91.9	79.8	67.6	11.7
31°	227.6	222.3	209.2	191.3	170.2	146.5	126.0	107.4	89.4	76.2	11.9
32°	289.1	288.3	266.7	235.5	207.3	177.7	146.8	123.1	102.4	84.4	12.1
33°	370.4	370.8	336.7	300.0	253.9	214.0	173.6	141.1	116.2	94.2	12.4
34°	497.6	467.7	427.7	377.9	315.1	255.2	202.7	162.0	128.6	103.6	12.4
35°	629.5	599.4	555.4	479.9	393.8	309.9	237.4	184.4	143.6	113.7	12.4
36°	777.3	751.8	685.2	588.9	479.0	361.6	274.1	210.2	158.3	122.9	12.3
37°	936.9	899.6	825.7	720.6	573.6	434.4	318.9	235.9	173.1	132.9	11.9
38°	1099.1	1065.4	972.1	844.8	686.5	511.2	363.7	260.6	186.7	140.3	11.3
39°	1222.0	1203.6	1111.1	968.9	776.7	583.9	409.9	287.0	201.0	147.8	10.7
40°	1366.3	1336.6	1249.0	1073.0	883.3	658.0	455.1	310.3	212.9	153.7	10.1
41°	1498.0	1460.5	1349.9	1179.9	968.7	724.6	497.9	334.4	222.5	157.2	9.8
42°	1611.0	1567.3	1451.7	1271.4	1040.1	777.8	532.2	351.7	231.5	160.0	9.2
43°	1684.1	1646.4	1532.7	1340.1	1101.2	826.6	564.2	369.7	237.0	162.0	8.4
44°	1719.7	1681.6	1571.5	1383.2	1138.7	855.9	584.9	382.1	243.1	164.4	7.8
45°	1708.2	1669.6	1563.1	1383.9	1150.4	866.5	593.7	387.7	246.4	166.7	7.1
46°	1655.6	1628.4	1521.2	1347.9	1128.2	855.2	588.7	383.5	245.2	166.7	6.3
47°	1581.7	1550.7	1448.6	1286.1	1074.4	826.1	568.6	370.6	238.2	162.9	5.6
48°	1481.0	1454.6	1347.4	1187.9	991.9	762.7	523.2	349.8	227.1	155.5	4.8
49°	1354.6	1317.9	1218.1	1062.3	884.3	672.7	463.7	314.5	209.2	144.9	4.2
50°	1217.6	1172.2	1095.2	936.5	773.0	576.8	385.4	265.9	184.2	131.1	3.8
51°	1083.4	1037.2	963.9	828.9	654.3	478.6	310.9	212.3	151.6	112.2	3.3
52°	944.2	905.5	823.4	717.3	560.2	387.9	259.0	179.6	126.0	94.2	2.7
53°	805.6	779.2	701.1	593.7	450.1	316.8	211.5	153.7	109.9	80.6	2.1
54°	666.8	637.9	578.5	482.8	362.8	250.0	179.4	128.6	95.3	70.3	1.9
55°	521.5	506.6	451.8	368.1	274.9	199.5	145.5	110.7	79.8	58.8	1.5
56°	401.6	384.8	334.8	267.1	204.3	156.2	117.7	90.4	67.6	49.2	1.1
57°	263.0	245.8	212.7	186.5	148.8	113.9	90.0	71.2	54.9	40.8	1.0
58°	155.5	139.8	134.6	114.9	99.2	77.3	66.4	53.0	40.6	32.2	0.6
59°	71.4	72.6	64.5	60.5	54.9	49.2	40.4	35.4	27.8	23.2	0.4
60°	41.5	39.2	38.3	34.3	30.4	27.0	24.3	21.4	17.4	14.9	0.2
62.5°	14.2	13.6	14.0	12.6	11.9	11.5	10.5	9.0	7.5	6.1	0.0
65°	3.8	3.8	3.6	3.4	3.3	3.1	2.9	2.5	2.3	1.9	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°	1.3	1.3	1.1	1.1	1.0	1.0	0.8	0.8	0.6	0.6	0.0
70°	0.8	0.8	0.8	0.6	0.6	0.6	0.4	0.4	0.4	0.2	0.0
72.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.2	0.2
75°	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.4
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	0.2	0.2	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°	17.0	17.0	17.0	17.0	17.0	17.0
2.5°	17.6	16.8	15.9	15.3	15.1	14.9
5°	16.8	15.3	14.2	13.4	13.2	13.2
7.5°	15.1	13.4	12.3	11.9	11.7	11.7
10°	13.2	11.7	10.7	10.3	10.5	10.5
12.5°	11.1	9.8	9.4	9.4	9.6	9.8
15°	9.0	8.2	8.2	8.4	8.8	9.0
17.5°	7.5	7.1	7.3	7.7	8.0	8.4
20°	6.1	6.1	6.5	7.1	7.7	8.0
22.5°	5.2	5.4	5.9	6.5	7.3	7.7
25°	4.4	4.8	5.4	6.3	7.1	7.3
27.5°	3.8	4.4	5.2	6.1	6.9	7.3
30°	3.3	4.0	5.0	5.9	6.9	7.3
31°	3.1	3.8	4.8	5.9	6.9	7.3
32°	2.9	3.8	4.8	5.9	6.9	7.3
33°	2.7	3.6	4.8	5.7	6.9	7.3
34°	2.5	3.6	4.8	5.9	6.9	7.3
35°	2.3	3.4	4.6	5.7	6.7	7.3
36°	2.1	3.4	4.6	5.7	6.9	7.3
37°	1.9	3.4	4.6	5.7	6.7	7.3
38°	1.9	3.3	4.4	5.7	6.7	7.3
39°	1.7	3.1	4.4	5.7	6.7	7.3
40°	1.5	3.1	4.2	5.6	6.7	7.3
41°	1.3	2.9	4.2	5.6	6.7	7.3
42°	1.1	2.9	4.2	5.6	6.7	7.3
43°	1.0	2.7	4.0	5.6	6.7	7.3
44°	1.0	2.7	4.0	5.6	6.7	7.3
45°	0.8	2.5	3.8	5.6	6.7	7.3
46°	0.8	2.5	3.8	5.4	6.7	7.3
47°	0.6	2.5	3.8	5.4	6.7	7.3
48°	0.6	2.3	3.8	5.4	6.7	7.3
49°	0.4	2.3	3.8	5.4	6.7	7.3
50°	0.4	2.3	3.6	5.4	6.7	7.3
51°	0.4	2.3	3.6	5.4	6.7	7.3
52°	0.4	2.1	3.6	5.4	6.7	7.3
53°	0.4	2.1	3.6	5.4	6.7	7.3
54°	0.4	2.1	3.4	5.4	6.7	7.3
55°	0.4	1.9	3.4	5.2	6.7	7.1
56°	0.4	1.9	3.4	5.2	6.7	7.1
57°	0.4	1.9	3.3	5.2	6.7	7.1
58°	0.4	1.7	3.3	5.0	6.5	7.1
59°	0.4	1.7	3.1	5.0	6.5	6.9
60°	0.4	1.5	3.1	4.8	6.3	6.9
62.5°	0.4	1.3	2.7	4.6	6.1	6.5
65°	0.4	1.1	2.5	4.2	5.9	6.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.4	1.1	2.3	4.0	5.6	6.1
70°	0.4	1.1	2.1	3.6	5.4	5.6
72.5°	0.6	1.1	1.9	3.4	5.0	5.2
75°	0.8	1.1	1.7	3.1	4.6	4.8
77.5°	0.8	1.1	1.5	2.7	4.0	4.2
80°	0.8	1.0	1.3	2.1	3.3	3.4
82.5°	0.8	1.0	1.0	1.7	2.5	2.7
85°	0.6	0.8	0.8	1.0	1.7	1.9
87.5°	0.6	0.8	0.4	0.6	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)