

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: P1337088

Luminaire Tested: P3A05R20B2750DE010 E3CA301MW_3000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337088
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R20B2750DE010 E3CA301MW_3000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R20 optic, 3000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

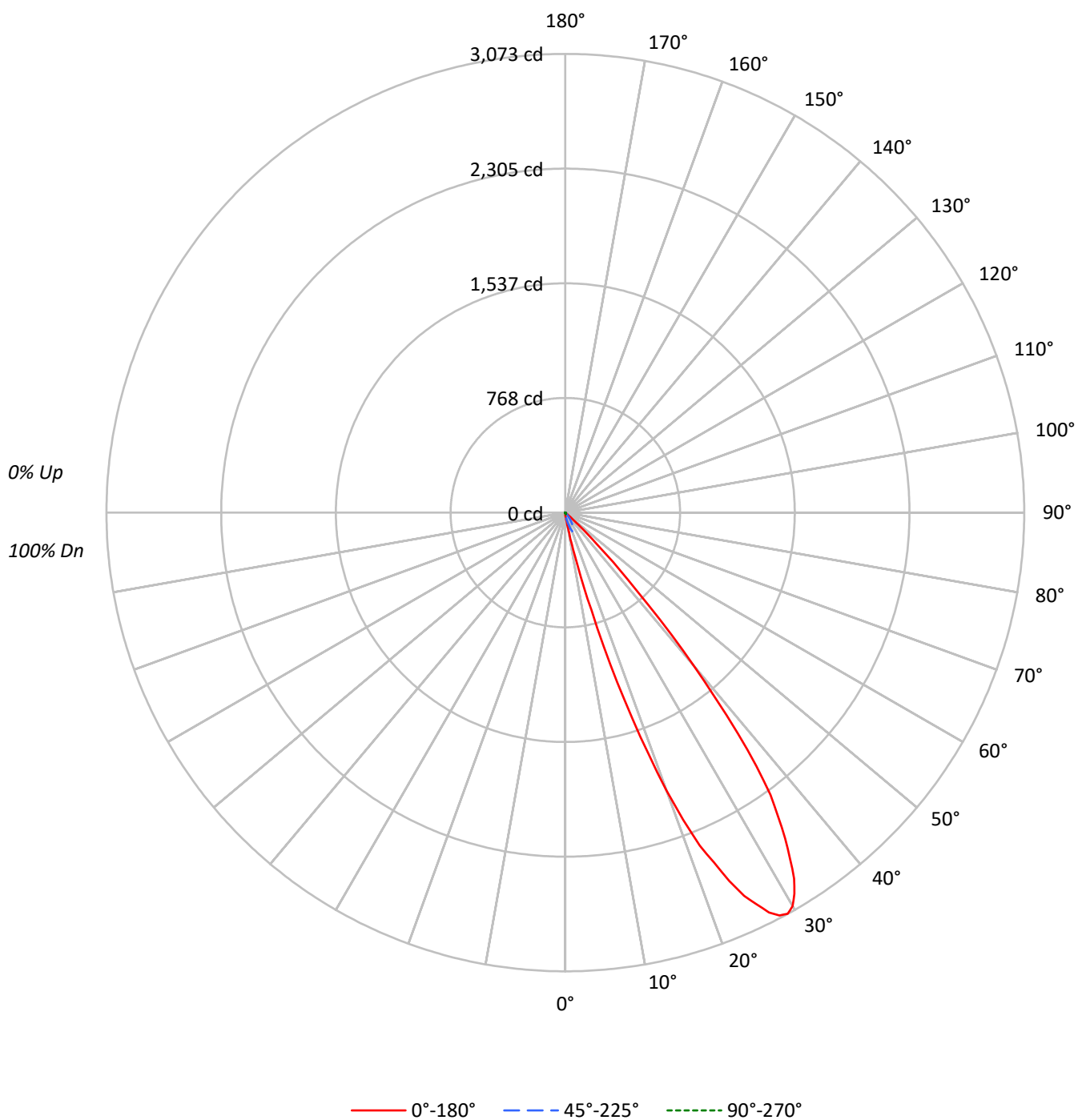
Lumens per Lamp: N/A
Luminaire Lumens: 431.1 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	78	73	91	83	77	72	81	75	71	79	74	71	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61		
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50		
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45		
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41		
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3267	3267	3267	3267	3267
5°	7484	5591	3104	1893	1629
10°	23602	9753	2516	1047	779
15°	152850	18025	1862	363	91
20°	461340	30849	1283	0	0
25°	685152	31115	750	0	0
30°	770473	23675	304	0	0
35°	664787	14134	214	0	0
40°	382803	4809	0	0	0
45°	93374	1954	124	0	124
50°	11189	546	136	136	409
55°	1491	0	306	306	612
60°	175	0	526	526	877
65°	208	208	830	830	1193
70°	256	256	1026	1026	1282
75°	0	339	1356	1017	1356
80°	0	505	1515	1010	1515
85°	0	1006	3019	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 93963 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.0	0.5
10°-20°	39.9	9.3
20°-30°	174.1	40.4
30°-40°	175.3	40.7
40°-50°	35.2	8.2
50°-60°	1.8	0.4
60°-70°	1.2	0.3
70°-80°	1.1	0.2
80°-90°	0.5	0.1
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°	216.0	50.1
0°-40°	391.4	90.8
0°-60°	428.3	99.4
0°-90°	431.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	431.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	15	15	15	15	15	
5°	34	25	14	9	7	5
15°	673	79	8	2	0	264
25°	2832	129	3	0	0	1277
35°	2483	53	1	0	0	1478
45°	301	6	0	0	0	328
55°	4	0	1	1	2	7
65°	0	0	2	2	2	0
75°	0	0	2	1	2	0
85°	0	0	1	0	0	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°	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
2.5°	22.3	22.3	21.9	21.9	21.5	21.9	21.1	21.5	21.5	21.1	19.2
5°	34.0	34.8	34.4	34.4	34.0	34.4	33.6	32.8	32.1	32.1	25.4
7.5°	55.9	55.5	54.7	55.1	54.0	53.2	52.4	52.0	49.7	48.5	33.2
10°	106.0	108.3	106.4	106.0	98.9	98.5	93.8	87.2	81.3	78.2	43.8
12.5°	291.7	304.2	284.7	275.3	269.8	248.7	239.7	216.6	194.3	177.5	55.5
15°	673.3	704.2	664.7	667.5	634.6	574.4	521.6	476.3	422.7	368.7	79.4
17.5°	1319.3	1294.3	1272.8	1236.4	1169.5	1081.2	967.4	852.0	752.3	647.9	110.7
20°	1977.0	1954.7	1905.8	1826.5	1741.2	1610.2	1474.9	1301.7	1134.0	976.8	132.2
21°	2203.4	2196.0	2115.8	2066.9	1935.5	1810.4	1654.4	1469.1	1280.2	1094.1	135.7
22°	2405.5	2361.0	2318.0	2245.6	2115.0	1978.9	1805.3	1610.2	1405.3	1198.5	136.1
23°	2545.5	2525.2	2484.5	2402.8	2273.0	2113.1	1930.1	1726.0	1510.1	1272.4	134.9
24°	2700.4	2674.6	2615.1	2519.7	2388.7	2230.8	2022.0	1819.4	1584.8	1334.5	131.8
25°	2831.8	2791.5	2721.1	2618.3	2475.2	2312.1	2102.1	1879.6	1636.8	1376.4	128.6
26°	2917.0	2895.1	2804.8	2692.9	2539.7	2371.5	2157.3	1925.8	1670.4	1395.5	123.6
27°	3005.8	2965.5	2876.7	2748.1	2581.9	2410.2	2188.5	1948.1	1682.2	1396.3	117.3
28°	3056.6	3012.8	2912.3	2777.0	2609.3	2431.7	2206.5	1955.1	1679.8	1384.2	109.9
29°	3072.6	3017.5	2919.3	2781.7	2615.9	2433.3	2203.8	1944.9	1659.1	1354.5	101.3
30°	3042.9	2986.6	2893.5	2759.4	2594.8	2413.8	2178.4	1911.3	1622.3	1311.9	93.5
31°	2978.0	2930.3	2840.4	2705.9	2547.9	2368.0	2120.9	1856.2	1559.8	1254.8	84.5
32°	2892.4	2845.4	2757.1	2635.5	2474.8	2293.3	2042.3	1770.1	1486.3	1169.5	75.5
33°	2763.7	2736.7	2657.4	2541.2	2380.5	2186.6	1936.7	1667.3	1381.5	1074.9	67.6
34°	2633.5	2599.5	2544.0	2416.9	2244.1	2050.5	1799.1	1525.4	1253.6	968.9	60.2
35°	2483.4	2463.0	2375.8	2274.2	2100.6	1902.7	1652.8	1387.3	1104.6	850.9	52.8
36°	2337.9	2306.6	2207.3	2099.8	1931.2	1717.4	1470.6	1221.2	976.0	740.2	45.0
37°	2126.8	2079.0	2008.3	1894.9	1697.8	1515.6	1290.4	1058.9	817.6	620.5	36.4
38°	1878.5	1856.2	1758.0	1643.8	1480.8	1308.0	1085.1	888.8	674.5	518.1	27.8
39°	1585.6	1585.2	1491.3	1408.8	1249.3	1093.7	892.7	721.4	556.8	417.2	21.5
40°	1337.3	1291.1	1233.3	1129.7	1007.3	875.1	699.1	564.6	432.1	336.3	16.8
42.5°	701.1	697.2	663.2	585.4	516.9	439.1	349.2	290.9	227.6	185.3	10.6
45°	301.1	303.0	279.6	267.8	241.3	208.8	176.3	147.0	125.9	102.1	6.3
47.5°	76.2	73.1	72.3	75.1	75.1	72.7	65.3	61.4	56.7	52.0	3.5
50°	32.8	32.1	31.3	31.3	29.3	28.2	26.2	23.9	21.9	19.6	1.6
52.5°	12.1	12.5	12.9	12.5	12.5	12.1	12.1	11.7	10.6	9.4	0.8
55°	3.9	3.9	3.9	4.3	4.3	4.7	4.7	4.7	4.7	4.3	0.0
57.5°	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.2	1.6	1.6	0.0
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
62.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
72.5°	0.4	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.0	0.4	0.0	0.4	0.4	0.0	0.4	0.4	0.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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°	14.9	14.9	14.9	14.9	14.9	14.9
2.5°	17.2	15.2	12.9	10.9	10.6	10.2
5°	19.2	14.1	10.6	8.6	7.8	7.4
7.5°	20.7	12.9	8.6	6.3	5.5	5.1
10°	21.5	11.3	7.0	4.7	3.5	3.5
12.5°	21.9	9.8	5.1	3.1	2.0	2.0
15°	21.5	8.2	3.9	1.6	0.4	0.4
17.5°	19.6	6.6	2.3	0.4	0.0	0.0
20°	16.8	5.5	1.6	0.0	0.0	0.0
21°	16.0	4.7	1.2	0.0	0.0	0.0
22°	14.9	4.3	0.8	0.0	0.0	0.0
23°	13.7	3.9	0.8	0.0	0.0	0.0
24°	12.5	3.5	0.4	0.0	0.0	0.0
25°	11.7	3.1	0.4	0.0	0.0	0.0
26°	10.9	2.7	0.4	0.0	0.0	0.0
27°	9.8	2.3	0.0	0.0	0.0	0.0
28°	9.0	2.0	0.0	0.0	0.0	0.0
29°	7.8	1.6	0.0	0.0	0.0	0.0
30°	6.6	1.2	0.0	0.0	0.0	0.0
31°	5.5	1.2	0.0	0.0	0.0	0.0
32°	4.7	0.8	0.0	0.0	0.0	0.0
33°	3.9	0.8	0.0	0.0	0.0	0.0
34°	3.5	0.8	0.0	0.0	0.0	0.0
35°	3.1	0.8	0.0	0.0	0.0	0.0
36°	2.3	0.4	0.0	0.0	0.0	0.0
37°	2.0	0.4	0.0	0.0	0.0	0.0
38°	1.6	0.4	0.0	0.0	0.0	0.0
39°	1.2	0.0	0.0	0.0	0.0	0.0
40°	1.2	0.0	0.0	0.0	0.0	0.0
42.5°	0.4	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.4	0.0	0.0	0.4	0.4
47.5°	0.0	0.4	0.0	0.0	0.4	0.8
50°	0.0	0.4	0.4	0.4	0.8	1.2
52.5°	0.0	0.8	0.4	0.4	1.2	1.2
55°	0.4	0.8	0.4	0.8	1.6	1.6
57.5°	0.4	0.8	0.8	1.2	1.6	2.0
60°	0.8	1.2	1.2	1.2	2.0	2.0
62.5°	0.8	1.2	1.6	1.6	2.0	2.3
65°	0.8	1.6	1.6	1.6	2.0	2.3
67.5°	1.2	1.6	1.6	1.6	2.0	2.3
70°	1.2	1.6	1.6	1.6	2.0	2.0
72.5°	1.2	1.6	1.2	1.6	1.6	2.0
75°	1.2	1.6	1.2	1.2	1.6	1.6
77.5°	0.8	1.2	1.2	0.8	1.2	1.2
80°	0.8	1.2	0.8	0.8	1.2	1.2



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.8	1.2	0.8	0.4	0.8	0.8
85°	0.8	1.2	0.8	0.4	0.4	0.4
87.5°	0.8	1.2	0.8	0.4	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)