

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: P1337087

Luminaire Tested: P3A05R20B2750DE010 E3CA301MW_2700K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337087
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_2700K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R20 optic, 2700K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

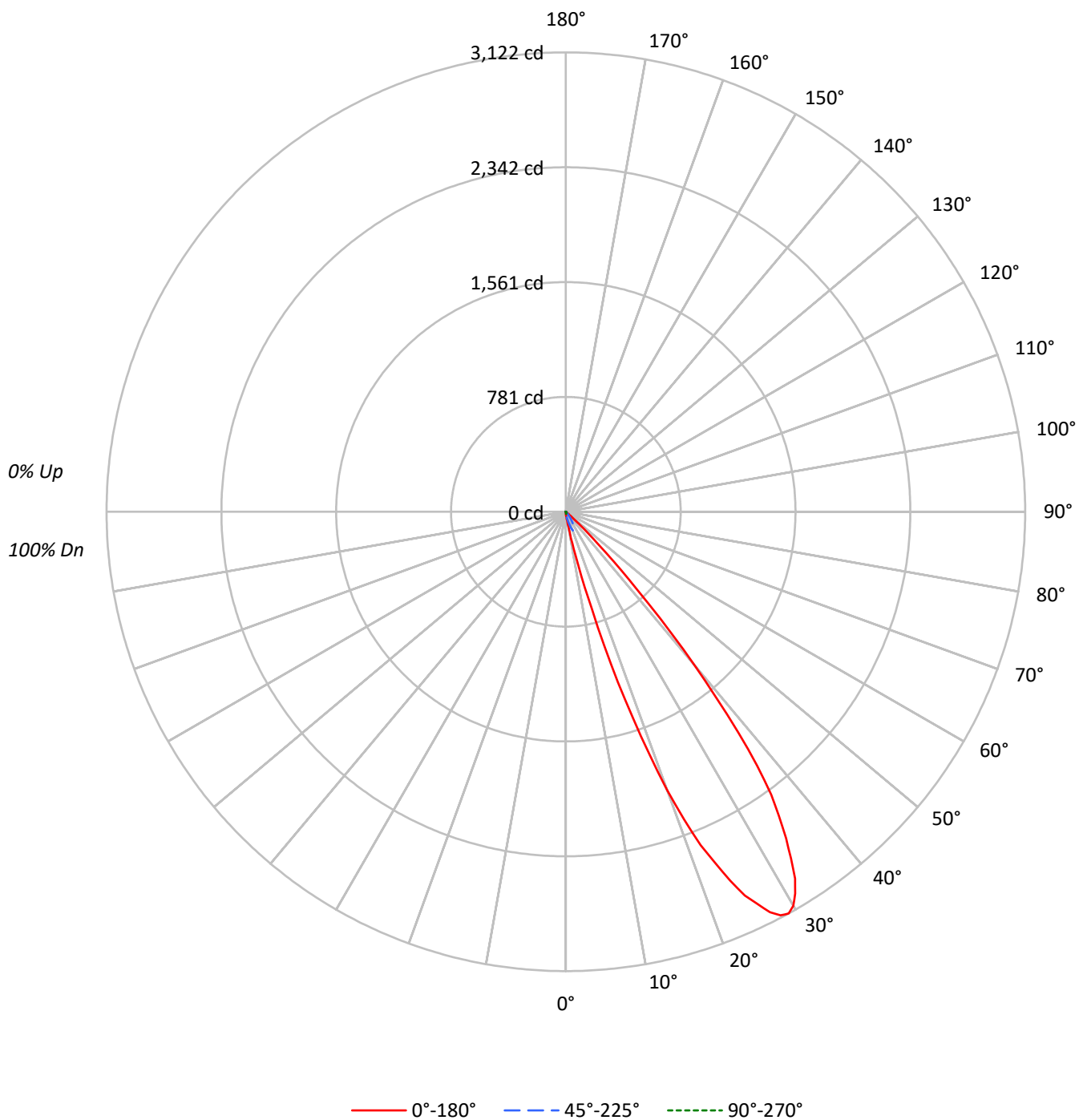
Lumens per Lamp: N/A
Luminaire Lumens: 438.0 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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					0
RW	70	50	30	10	70	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	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	76	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°	3311	3311	3311	3311	3311
5°	7616	5679	3148	1915	1673
10°	23981	9909	2561	1069	802
15°	155347	18320	1884	363	91
20°	468831	31339	1307	0	0
25°	696282	31623	774	0	0
30°	782981	24054	304	0	0
35°	675575	14348	214	0	0
40°	389015	4895	0	0	0
45°	94894	1985	124	0	124
50°	11394	546	136	136	409
55°	1529	0	306	306	612
60°	175	0	526	526	877
65°	208	208	830	830	1245
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: 95514 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.0	0.5
10°-20°	40.6	9.3
20°-30°	176.9	40.4
30°-40°	178.2	40.7
40°-50°	35.7	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°	219.5	50.1
0°-40°	397.7	90.8
0°-60°	435.3	99.4
0°-90°	438.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	438.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	15	15	15	15	15	
5°	35	26	14	9	8	5
15°	684	81	8	2	0	268
25°	2878	131	3	0	0	1298
35°	2524	54	1	0	0	1502
45°	306	6	0	0	0	333
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°	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1
2.5°	22.7	22.7	22.3	22.3	21.9	22.3	21.5	21.9	21.9	21.5	19.5
5°	34.6	35.4	35.0	35.0	34.6	35.0	34.2	33.4	32.6	32.6	25.8
7.5°	56.8	56.4	55.6	56.0	54.8	54.0	53.2	52.9	50.5	49.3	33.8
10°	107.7	110.1	108.1	107.7	100.5	100.1	95.4	88.6	82.7	79.5	44.5
12.5°	296.4	309.2	289.3	279.7	274.2	252.7	243.6	220.1	197.5	180.4	56.4
15°	684.3	715.7	675.5	678.3	644.9	583.7	530.1	484.0	429.6	374.7	80.7
17.5°	1340.7	1315.3	1293.4	1256.5	1188.5	1098.7	983.1	865.9	764.5	658.4	112.5
20°	2009.1	1986.5	1936.8	1856.1	1769.5	1636.4	1498.9	1322.8	1152.4	992.6	134.3
21°	2239.2	2231.6	2150.2	2100.5	1967.0	1839.8	1681.3	1492.9	1301.0	1111.8	137.9
22°	2444.6	2399.3	2355.6	2282.1	2149.4	2011.1	1834.7	1636.4	1428.1	1217.9	138.3
23°	2586.9	2566.2	2524.9	2441.8	2309.9	2147.4	1961.4	1754.0	1534.6	1293.0	137.1
24°	2744.2	2718.0	2657.6	2560.7	2427.5	2267.0	2054.8	1849.0	1610.5	1356.2	133.9
25°	2877.8	2836.8	2765.3	2660.8	2515.4	2349.6	2136.3	1910.2	1663.4	1398.7	130.7
26°	2964.4	2942.1	2850.3	2736.7	2580.9	2410.0	2192.3	1957.0	1697.6	1418.2	125.6
27°	3054.6	3013.7	2923.4	2792.7	2623.8	2449.4	2224.1	1979.7	1709.5	1419.0	119.2
28°	3106.2	3061.7	2959.6	2822.1	2651.6	2471.2	2242.4	1986.8	1707.1	1406.7	111.7
29°	3122.5	3066.5	2966.8	2826.9	2658.4	2472.8	2239.6	1976.5	1686.0	1376.5	102.9
30°	3092.3	3035.1	2940.5	2804.2	2636.9	2453.0	2213.7	1942.3	1648.7	1333.2	95.0
31°	3026.4	2977.9	2886.5	2749.8	2589.3	2406.5	2155.3	1886.3	1585.1	1275.2	85.8
32°	2939.3	2891.7	2801.9	2678.3	2515.0	2330.6	2075.5	1798.9	1510.4	1188.5	76.7
33°	2808.6	2781.2	2700.5	2582.5	2419.2	2222.1	1968.2	1694.4	1403.9	1092.4	68.7
34°	2676.3	2641.7	2585.3	2456.1	2280.5	2083.8	1828.3	1550.1	1274.0	984.7	61.2
35°	2523.7	2503.0	2414.4	2311.1	2134.7	1933.6	1679.7	1409.9	1122.6	864.7	53.6
36°	2375.9	2344.1	2243.2	2133.9	1962.6	1745.2	1494.5	1241.0	991.8	752.2	45.7
37°	2161.3	2112.8	2040.9	1925.7	1725.4	1540.2	1311.3	1076.1	830.9	630.6	37.0
38°	1909.0	1886.3	1786.6	1670.5	1504.8	1329.2	1102.7	903.2	685.5	526.5	28.2
39°	1611.3	1610.9	1515.6	1431.7	1269.6	1111.4	907.2	733.1	565.9	424.0	21.9
40°	1359.0	1312.1	1253.3	1148.0	1023.6	889.3	710.5	573.8	439.1	341.7	17.1
42.5°	712.5	708.5	673.9	594.9	525.3	446.2	354.9	295.6	231.3	188.4	10.7
45°	306.0	308.0	284.1	272.2	245.2	212.2	179.2	149.4	128.0	103.7	6.4
47.5°	77.5	74.3	73.5	76.3	76.3	73.9	66.4	62.4	57.6	52.9	3.6
50°	33.4	32.6	31.8	31.8	29.8	28.6	26.6	24.2	22.3	19.9	1.6
52.5°	12.3	12.7	13.1	12.7	12.7	12.3	12.3	11.9	10.7	9.5	0.8
55°	4.0	4.0	4.0	4.4	4.4	4.8	4.8	4.8	4.8	4.4	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

TEST NUMBER: P1337087

CATALOG NUMBER: P3A05R20B2750DE010 E3CA301MW_2700K

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	15.1	15.1	15.1	15.1	15.1	15.1
2.5°	17.5	15.5	13.1	11.1	10.7	10.3
5°	19.5	14.3	10.7	8.7	7.9	7.6
7.5°	21.1	13.1	8.7	6.4	5.6	5.2
10°	21.9	11.5	7.2	4.8	3.6	3.6
12.5°	22.3	9.9	5.2	3.2	2.0	2.0
15°	21.9	8.3	4.0	1.6	0.4	0.4
17.5°	19.9	6.8	2.4	0.4	0.0	0.0
20°	17.1	5.6	1.6	0.0	0.0	0.0
21°	16.3	4.8	1.2	0.0	0.0	0.0
22°	15.1	4.4	0.8	0.0	0.0	0.0
23°	13.9	4.0	0.8	0.0	0.0	0.0
24°	12.7	3.6	0.4	0.0	0.0	0.0
25°	11.9	3.2	0.4	0.0	0.0	0.0
26°	11.1	2.8	0.4	0.0	0.0	0.0
27°	9.9	2.4	0.0	0.0	0.0	0.0
28°	9.1	2.0	0.0	0.0	0.0	0.0
29°	7.9	1.6	0.0	0.0	0.0	0.0
30°	6.8	1.2	0.0	0.0	0.0	0.0
31°	5.6	1.2	0.0	0.0	0.0	0.0
32°	4.8	0.8	0.0	0.0	0.0	0.0
33°	4.0	0.8	0.0	0.0	0.0	0.0
34°	3.6	0.8	0.0	0.0	0.0	0.0
35°	3.2	0.8	0.0	0.0	0.0	0.0
36°	2.4	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	2.4
65°	0.8	1.6	1.6	1.6	2.0	2.4
67.5°	1.2	1.6	1.6	1.6	2.0	2.4
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)