

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: P1337091

Luminaire Tested: P3A05R20B2750DE010 E3CA301MW_5000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337091
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_5000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R20 optic, 5000K CCT AND, 80CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

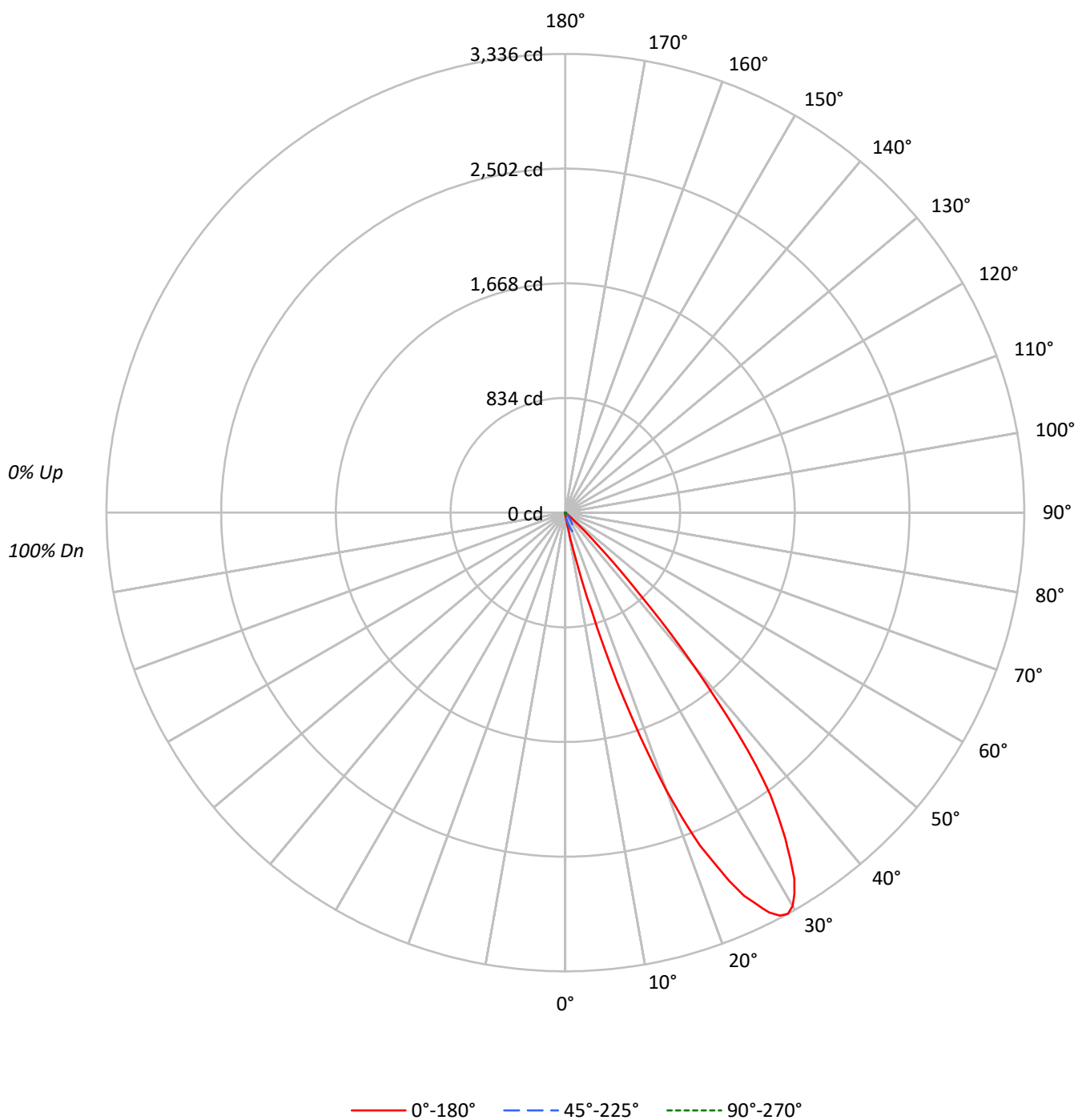
Lumens per Lamp: N/A
Luminaire Lumens: 467.9 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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				10			0
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	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°	3530	3530	3530	3530	3530
5°	8122	6075	3368	2047	1783
10°	25629	10599	2739	1136	846
15°	165971	19569	2020	386	91
20°	500940	33486	1377	0	0
25°	743970	33800	823	0	0
30°	836610	25700	329	0	0
35°	721859	15339	214	0	0
40°	415664	5238	0	0	0
45°	101375	2109	124	0	124
50°	12179	580	136	136	443
55°	1606	0	306	306	650
60°	175	0	570	570	921
65°	208	208	882	882	1297
70°	256	256	1090	1090	1346
75°	0	339	1440	1101	1440
80°	0	505	1642	1010	1642
85°	0	1006	3271	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 102057 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.2	0.5
10°-20°	43.4	9.3
20°-30°	189.0	40.4
30°-40°	190.4	40.7
40°-50°	38.2	8.2
50°-60°	1.9	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°	234.6	50.1
0°-40°	424.9	90.8
0°-60°	465.0	99.4
0°-90°	467.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	467.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	16	16	16	16	16	
5°	37	28	15	9	8	6
15°	731	86	9	2	0	286
25°	3075	140	3	0	0	1386
35°	2697	57	1	0	0	1604
45°	327	7	0	0	0	356
55°	4	0	1	1	2	8
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°	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1
2.5°	24.2	24.2	23.8	23.8	23.4	23.8	22.9	23.4	23.4	22.9	20.8
5°	36.9	37.8	37.4	37.4	36.9	37.4	36.5	35.7	34.8	34.8	27.6
7.5°	60.7	60.3	59.4	59.9	58.6	57.7	56.9	56.5	53.9	52.6	36.1
10°	115.1	117.6	115.5	115.1	107.4	107.0	101.9	94.7	88.3	84.9	47.6
12.5°	316.7	330.3	309.1	298.9	293.0	270.0	260.3	235.2	211.0	192.8	60.3
15°	731.1	764.7	721.8	724.8	689.1	623.7	566.4	517.1	459.0	400.4	86.2
17.5°	1432.6	1405.4	1382.0	1342.5	1269.9	1174.0	1050.4	925.2	816.9	703.5	120.2
20°	2146.7	2122.5	2069.4	1983.2	1890.7	1748.4	1601.5	1413.4	1231.3	1060.6	143.5
21°	2392.5	2384.5	2297.4	2244.4	2101.7	1965.8	1796.4	1595.2	1390.1	1188.0	147.3
22°	2612.1	2563.7	2517.0	2438.4	2296.6	2148.8	1960.3	1748.4	1526.0	1301.4	147.8
23°	2764.1	2742.0	2697.8	2609.1	2468.1	2294.5	2095.8	1874.1	1639.8	1381.6	146.5
24°	2932.2	2904.2	2839.6	2736.0	2593.8	2422.3	2195.5	1975.6	1720.9	1449.1	143.1
25°	3074.9	3031.1	2954.7	2843.0	2687.6	2510.6	2282.6	2041.0	1777.3	1494.5	139.7
26°	3167.4	3143.6	3045.6	2924.1	2757.7	2575.1	2342.4	2091.1	1813.8	1515.4	134.2
27°	3263.8	3220.1	3123.7	2984.0	2803.5	2617.2	2376.4	2115.3	1826.6	1516.2	127.4
28°	3319.0	3271.4	3162.3	3015.4	2833.3	2640.5	2395.9	2122.9	1824.0	1503.0	119.3
29°	3336.4	3276.5	3170.0	3020.5	2840.5	2642.2	2393.0	2111.9	1801.5	1470.8	110.0
30°	3304.1	3243.0	3141.9	2996.3	2817.6	2621.0	2365.4	2075.4	1761.6	1424.5	101.5
31°	3233.7	3181.9	3084.2	2938.1	2766.6	2571.3	2303.0	2015.5	1693.7	1362.5	91.7
32°	3140.7	3089.7	2993.8	2861.7	2687.2	2490.2	2217.6	1922.1	1613.9	1269.9	81.9
33°	3001.0	2971.7	2885.5	2759.4	2584.9	2374.3	2103.0	1810.4	1500.1	1167.2	73.5
34°	2859.6	2822.7	2762.4	2624.4	2436.7	2226.5	1953.5	1656.3	1361.2	1052.1	65.4
35°	2696.6	2674.5	2579.8	2469.4	2280.9	2066.0	1794.7	1506.4	1199.5	923.9	57.3
36°	2538.6	2504.6	2396.8	2280.0	2097.0	1864.8	1596.9	1326.0	1059.8	803.7	48.8
37°	2309.3	2257.5	2180.7	2057.5	1843.6	1645.7	1401.1	1149.8	887.8	673.8	39.5
38°	2039.7	2015.5	1908.9	1785.0	1607.9	1420.2	1178.2	965.1	732.4	562.6	30.1
39°	1721.7	1721.3	1619.4	1529.8	1356.6	1187.6	969.3	783.4	604.6	453.0	23.4
40°	1452.1	1402.0	1339.1	1226.6	1093.7	950.2	759.2	613.1	469.2	365.1	18.3
42.5°	761.3	757.0	720.1	635.6	561.3	476.8	379.2	315.9	247.1	201.3	11.5
45°	326.9	329.1	303.6	290.8	262.0	226.7	191.5	159.6	136.7	110.8	6.8
47.5°	82.8	79.4	78.5	81.5	81.5	79.0	70.9	66.7	61.6	56.5	3.8
50°	35.7	34.8	34.0	34.0	31.8	30.6	28.4	25.9	23.8	21.2	1.7
52.5°	13.2	13.6	14.0	13.6	13.6	13.2	13.2	12.7	11.5	10.2	0.8
55°	4.2	4.2	4.2	4.7	4.7	5.1	5.1	5.1	5.1	4.7	0.0
57.5°	0.8	0.8	1.3	1.3	1.3	1.3	1.3	1.3	1.7	1.7	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°	16.1	16.1	16.1	16.1	16.1	16.1
2.5°	18.7	16.6	14.0	11.9	11.5	11.0
5°	20.8	15.3	11.5	9.3	8.5	8.1
7.5°	22.5	14.0	9.3	6.8	5.9	5.5
10°	23.4	12.3	7.6	5.1	3.8	3.8
12.5°	23.8	10.6	5.5	3.4	2.1	2.1
15°	23.4	8.9	4.2	1.7	0.4	0.4
17.5°	21.2	7.2	2.5	0.4	0.0	0.0
20°	18.3	5.9	1.7	0.0	0.0	0.0
21°	17.4	5.1	1.3	0.0	0.0	0.0
22°	16.1	4.7	0.8	0.0	0.0	0.0
23°	14.9	4.2	0.8	0.0	0.0	0.0
24°	13.6	3.8	0.4	0.0	0.0	0.0
25°	12.7	3.4	0.4	0.0	0.0	0.0
26°	11.9	3.0	0.4	0.0	0.0	0.0
27°	10.6	2.5	0.0	0.0	0.0	0.0
28°	9.8	2.1	0.0	0.0	0.0	0.0
29°	8.5	1.7	0.0	0.0	0.0	0.0
30°	7.2	1.3	0.0	0.0	0.0	0.0
31°	5.9	1.3	0.0	0.0	0.0	0.0
32°	5.1	0.8	0.0	0.0	0.0	0.0
33°	4.2	0.8	0.0	0.0	0.0	0.0
34°	3.8	0.8	0.0	0.0	0.0	0.0
35°	3.4	0.8	0.0	0.0	0.0	0.0
36°	2.5	0.4	0.0	0.0	0.0	0.0
37°	2.1	0.4	0.0	0.0	0.0	0.0
38°	1.7	0.4	0.0	0.0	0.0	0.0
39°	1.3	0.0	0.0	0.0	0.0	0.0
40°	1.3	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	1.3
52.5°	0.0	0.8	0.4	0.4	1.3	1.3
55°	0.4	0.8	0.4	0.8	1.7	1.7
57.5°	0.4	0.8	0.8	1.3	1.7	2.1
60°	0.8	1.3	1.3	1.3	2.1	2.1
62.5°	0.8	1.3	1.7	1.7	2.1	2.5
65°	0.8	1.7	1.7	1.7	2.1	2.5
67.5°	1.3	1.7	1.7	1.7	2.1	2.5
70°	1.3	1.7	1.7	1.7	2.1	2.1
72.5°	1.3	1.7	1.3	1.7	1.7	2.1
75°	1.3	1.7	1.3	1.3	1.7	1.7
77.5°	0.8	1.3	1.3	0.8	1.3	1.3
80°	0.8	1.3	0.8	0.8	1.3	1.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.8	1.3	0.8	0.4	0.8	0.8
85°	0.8	1.3	0.8	0.4	0.4	0.4
87.5°	0.8	1.3	0.8	0.4	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)