

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: P1344147

Luminaire Tested: P3A13R20B2750DE010 E3A301WMH_4000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344147
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: P3A13R20B2750DE010 E3A301WMH_4000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R20 optic, 4000K CCT AND, 80CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

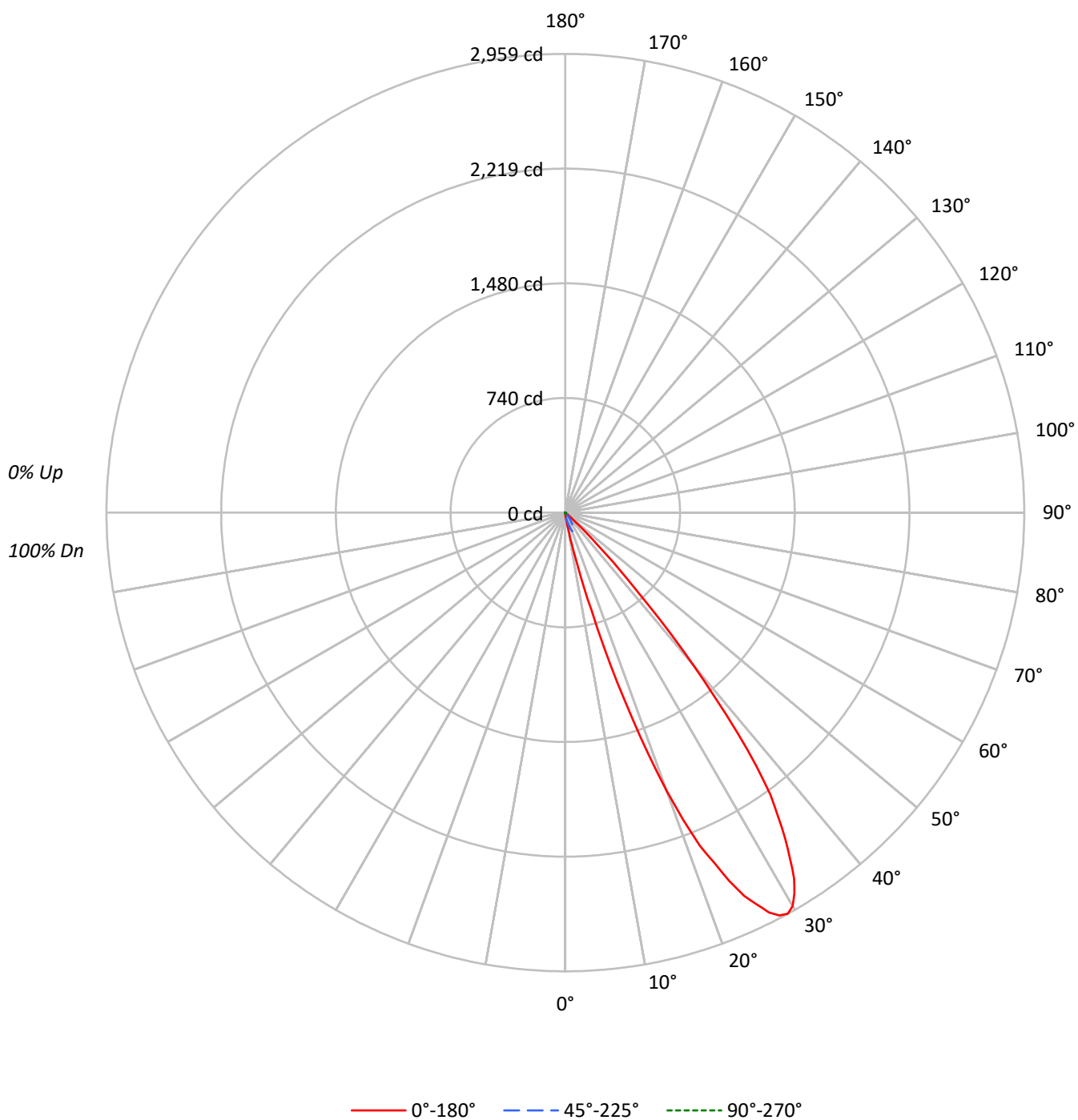
Lumens per Lamp: N/A
Luminaire Lumens: 415.0 lumens
Efficiency: N/A
Efficacy: 21.7 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 19.1
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

TEST NUMBER: P1344147

CATALOG NUMBER: P3A13R20B2750DE010 E3A301WMH_4000K

Luminous Intensity Polar Plot



TEST NUMBER: P1344147

CATALOG NUMBER: P3A13R20B2750DE010 E3A301WMH_4000K

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	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°	3136	3136	3136	3136	3136
5°	7220	5393	2994	1827	1585
10°	22712	9396	2427	1002	757
15°	147175	17344	1793	341	91
20°	444212	29706	1237	0	0
25°	659699	29978	726	0	0
30°	741861	22788	279	0	0
35°	640106	13599	214	0	0
40°	368576	4637	0	0	0
45°	89901	1861	124	0	124
50°	10780	512	136	136	375
55°	1453	0	306	306	573
60°	175	0	482	482	833
65°	208	208	778	778	1193
70°	256	256	962	962	1218
75°	0	339	1271	932	1271
80°	0	505	1389	1010	1389
85°	0	1006	2768	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 90490 cd/sqm

TEST NUMBER: P1344147

CATALOG NUMBER: P3A13R20B2750DE010 E3A301WMH_4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.9	0.5
10°-20°	38.5	9.3
20°-30°	167.6	40.4
30°-40°	168.8	40.7
40°-50°	33.9	8.2
50°-60°	1.7	0.4
60°-70°	1.1	0.3
70°-80°	1.0	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°	208.0	50.1
0°-40°	376.8	90.8
0°-60°	412.4	99.4
0°-90°	415.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	415.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	33	24	14	8	7	5
15°	648	76	8	2	0	254
25°	2727	124	3	0	0	1229
35°	2391	51	1	0	0	1423
45°	290	6	0	0	0	316
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	

TEST NUMBER: P1344147

CATALOG NUMBER: P3A13R20B2750DE010 E3A301WMH_4000K

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
2.5°	21.5	21.5	21.1	21.1	20.7	21.1	20.3	20.7	20.7	20.3	18.4
5°	32.8	33.5	33.1	33.1	32.8	33.1	32.4	31.6	30.9	30.9	24.5
7.5°	53.8	53.5	52.7	53.1	52.0	51.2	50.5	50.1	47.8	46.7	32.0
10°	102.0	104.3	102.4	102.0	95.3	94.9	90.4	84.0	78.3	75.3	42.2
12.5°	280.9	292.9	274.1	265.1	259.8	239.5	230.8	208.6	187.1	170.9	53.5
15°	648.3	678.1	640.1	642.7	611.1	553.1	502.3	458.6	407.0	355.0	76.4
17.5°	1270.3	1246.2	1225.5	1190.5	1126.1	1041.0	931.5	820.4	724.4	623.9	106.6
20°	1903.6	1882.1	1835.1	1758.6	1676.6	1550.4	1420.2	1253.4	1091.9	940.5	127.3
21°	2121.6	2114.4	2037.3	1990.2	1863.7	1743.2	1593.0	1414.5	1232.7	1053.5	130.6
22°	2316.2	2273.3	2231.9	2162.3	2036.5	1905.5	1738.3	1550.4	1353.2	1154.0	131.0
23°	2451.0	2431.5	2392.3	2313.6	2188.6	2034.6	1858.4	1661.9	1454.1	1225.1	129.9
24°	2600.1	2575.3	2518.1	2426.2	2300.1	2148.0	1946.9	1751.9	1526.0	1285.0	126.9
25°	2726.6	2687.9	2620.1	2521.1	2383.3	2226.3	2024.1	1809.9	1576.0	1325.3	123.9
26°	2808.7	2787.6	2700.7	2593.0	2445.4	2283.5	2077.2	1854.3	1608.4	1343.7	119.0
27°	2894.2	2855.4	2769.9	2646.1	2486.1	2320.8	2107.3	1875.7	1619.7	1344.5	113.0
28°	2943.1	2901.0	2804.2	2673.9	2512.4	2341.5	2124.6	1882.5	1617.5	1332.8	105.8
29°	2958.6	2905.5	2811.0	2678.4	2518.8	2343.0	2122.0	1872.7	1597.5	1304.2	97.5
30°	2929.9	2875.7	2786.1	2657.0	2498.5	2324.2	2097.5	1840.3	1562.1	1263.2	90.0
31°	2867.4	2821.5	2734.9	2605.4	2453.3	2280.1	2042.2	1787.3	1501.9	1208.2	81.3
32°	2785.0	2739.8	2654.7	2537.6	2382.9	2208.2	1966.5	1704.4	1431.1	1126.1	72.7
33°	2661.1	2635.1	2558.7	2446.9	2292.2	2105.4	1864.8	1605.4	1330.2	1035.0	65.1
34°	2535.8	2503.0	2449.5	2327.2	2160.8	1974.4	1732.3	1468.7	1207.1	933.0	58.0
35°	2391.2	2371.6	2287.6	2189.7	2022.6	1832.1	1591.5	1335.8	1063.6	819.3	50.8
36°	2251.1	2221.0	2125.4	2021.8	1859.6	1653.6	1416.0	1175.8	939.8	712.7	43.3
37°	2047.8	2001.9	1933.7	1824.5	1634.8	1459.3	1242.5	1019.6	787.3	597.5	35.0
38°	1808.7	1787.3	1692.8	1582.8	1425.8	1259.4	1044.8	855.8	649.5	498.9	26.7
39°	1526.7	1526.3	1436.0	1356.5	1202.9	1053.1	859.6	694.6	536.1	401.7	20.7
40°	1287.6	1243.2	1187.5	1087.7	969.9	842.6	673.2	543.7	416.0	323.8	16.2
42.5°	675.1	671.3	638.5	563.6	497.7	422.8	336.2	280.1	219.1	178.5	10.2
45°	289.9	291.8	269.2	257.9	232.3	201.1	169.8	141.6	121.2	98.3	6.0
47.5°	73.4	70.4	69.7	72.3	72.3	70.0	62.9	59.1	54.6	50.1	3.4
50°	31.6	30.9	30.1	30.1	28.2	27.1	25.2	23.0	21.1	18.8	1.5
52.5°	11.7	12.0	12.4	12.0	12.0	11.7	11.7	11.3	10.2	9.0	0.8
55°	3.8	3.8	3.8	4.1	4.1	4.5	4.5	4.5	4.5	4.1	0.0
57.5°	0.8	0.8	1.1	1.1	1.1	1.1	1.1	1.1	1.5	1.5	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



TEST NUMBER: P1344147

CATALOG NUMBER: P3A13R20B2750DE010 E3A301WMH_4000K

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: P1344147

CATALOG NUMBER: P3A13R20B2750DE010 E3A301WMH_4000K

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	14.3	14.3	14.3	14.3	14.3	14.3
2.5°	16.6	14.7	12.4	10.5	10.2	9.8
5°	18.4	13.6	10.2	8.3	7.5	7.2
7.5°	20.0	12.4	8.3	6.0	5.3	4.9
10°	20.7	10.9	6.8	4.5	3.4	3.4
12.5°	21.1	9.4	4.9	3.0	1.9	1.9
15°	20.7	7.9	3.8	1.5	0.4	0.4
17.5°	18.8	6.4	2.3	0.4	0.0	0.0
20°	16.2	5.3	1.5	0.0	0.0	0.0
21°	15.4	4.5	1.1	0.0	0.0	0.0
22°	14.3	4.1	0.8	0.0	0.0	0.0
23°	13.2	3.8	0.8	0.0	0.0	0.0
24°	12.0	3.4	0.4	0.0	0.0	0.0
25°	11.3	3.0	0.4	0.0	0.0	0.0
26°	10.5	2.6	0.4	0.0	0.0	0.0
27°	9.4	2.3	0.0	0.0	0.0	0.0
28°	8.7	1.9	0.0	0.0	0.0	0.0
29°	7.5	1.5	0.0	0.0	0.0	0.0
30°	6.4	1.1	0.0	0.0	0.0	0.0
31°	5.3	1.1	0.0	0.0	0.0	0.0
32°	4.5	0.8	0.0	0.0	0.0	0.0
33°	3.8	0.8	0.0	0.0	0.0	0.0
34°	3.4	0.8	0.0	0.0	0.0	0.0
35°	3.0	0.8	0.0	0.0	0.0	0.0
36°	2.3	0.4	0.0	0.0	0.0	0.0
37°	1.9	0.4	0.0	0.0	0.0	0.0
38°	1.5	0.4	0.0	0.0	0.0	0.0
39°	1.1	0.0	0.0	0.0	0.0	0.0
40°	1.1	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	1.1
52.5°	0.0	0.8	0.4	0.4	1.1	1.1
55°	0.4	0.8	0.4	0.8	1.5	1.5
57.5°	0.4	0.8	0.8	1.1	1.5	1.9
60°	0.8	1.1	1.1	1.1	1.9	1.9
62.5°	0.8	1.1	1.5	1.5	1.9	2.3
65°	0.8	1.5	1.5	1.5	1.9	2.3
67.5°	1.1	1.5	1.5	1.5	1.9	2.3
70°	1.1	1.5	1.5	1.5	1.9	1.9
72.5°	1.1	1.5	1.1	1.5	1.5	1.9
75°	1.1	1.5	1.1	1.1	1.5	1.5
77.5°	0.8	1.1	1.1	0.8	1.1	1.1
80°	0.8	1.1	0.8	0.8	1.1	1.1



TEST NUMBER: P1344147

CATALOG NUMBER: P3A13R20B2750DE010 E3A301WMH_4000K

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.8	1.1	0.8	0.4	0.8	0.8
85°	0.8	1.1	0.8	0.4	0.4	0.4
87.5°	0.8	1.1	0.8	0.4	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)