

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: P1344689

Luminaire Tested: P3A13R25B2750DE010 E3CA451MMS_2700K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-75)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R25B2750DE010 E3CA451MMS_2700K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R25 optic, 2700K CCT AND, 90CRI , E3CA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

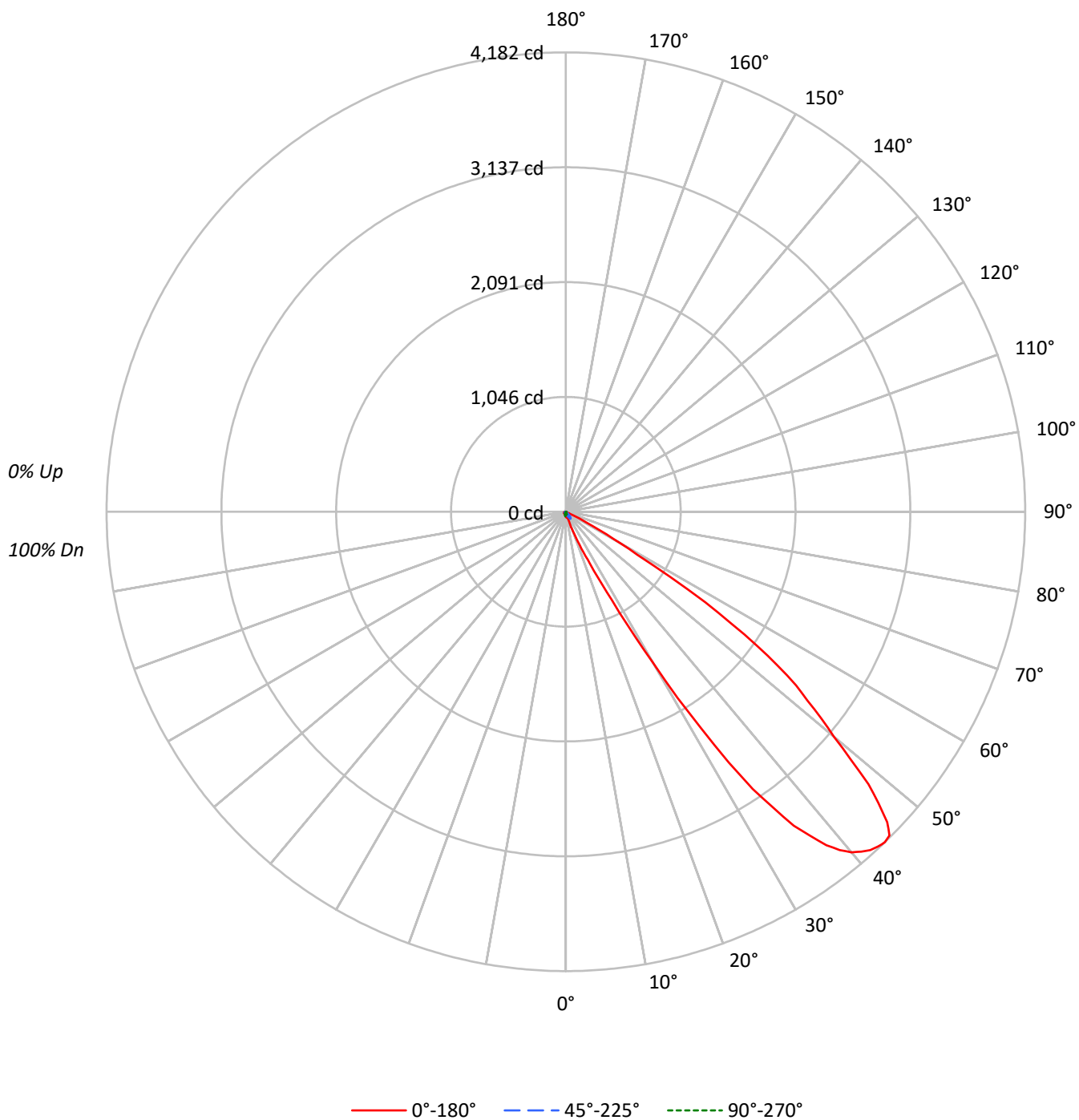
Lumens per Lamp: N/A
Luminaire Lumens: 872.0 lumens
Efficiency: N/A
Efficacy: 45.7 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1344689

CATALOG NUMBER: P3A13R25B2750DE010 E3CA451MMS_2700K

Luminous Intensity Polar Plot



TEST NUMBER: P1344689

CATALOG NUMBER: P3A13R25B2750DE010 E3CA451MMS_2700K

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	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42		
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35		
7	62	48	39	32	60	47	39	32	46	38	32	44	37	32	43	36	32	29		
8	57	43	34	27	55	42	33	27	40	33	27	39	32	27	38	32	27	25		
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21		
10	48	34	25	20	47	33	25	20	32	25	20	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9758	9758	9758	9758	9758
5°	11138	10632	9465	8453	8276
10°	11111	10087	8038	7014	7014
15°	12372	8717	6266	5925	6266
20°	43684	8587	4830	5017	5554
25°	125693	10960	3895	4645	5395
30°	401024	16914	3114	4456	5444
35°	878325	19916	2677	4310	5541
40°	1158657	18005	2204	4380	5925
45°	1292134	12621	2140	4745	6419
50°	1087657	6550	2081	4981	7062
55°	813199	2638	2064	5582	7914
60°	251734	658	2017	6052	8771
65°	21481	0	2387	6382	9547
70°	1475	513	2436	7373	10835
75°	1271	678	3219	7795	12370
80°	1010	1010	4799	8713	14522
85°	2013	2013	7799	9561	15347

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1292134 cd/sqm

TEST NUMBER: P1344689

CATALOG NUMBER: P3A13R25B2750DE010 E3CA451MMS_2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.0	0.5
10°-20°	10.3	1.2
20°-30°	48.2	5.5
30°-40°	232.3	26.6
40°-50°	364.1	41.8
50°-60°	186.6	21.4
60°-70°	17.6	2.0
70°-80°	5.9	0.7
80°-90°	3.0	0.3
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°	62.5	7.2
0°-40°	294.8	33.8
0°-60°	845.5	97.0
0°-90°	872.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	872.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	44	44	44	44	44	
5°	51	48	43	38	38	5
15°	54	38	28	26	28	23
25°	520	45	16	19	22	322
35°	3281	74	10	16	21	1992
45°	4167	41	7	15	21	3049
55°	2127	7	5	15	21	1771
65°	41	0	5	12	18	130
75°	2	1	4	9	15	2
85°	1	1	3	4	6	1
90°	0	0	0	0	0	

TEST NUMBER: P1344689

CATALOG NUMBER: P3A13R25B2750DE010 E3CA451MMS_2700K

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
2.5°	48.3	48.3	48.3	48.3	48.3	48.3	47.6	47.6	48.3	47.6	47.6
5°	50.6	50.6	50.6	50.6	50.6	50.6	50.6	49.9	49.9	49.9	48.3
7.5°	51.4	50.6	50.6	50.6	50.6	50.6	50.6	50.6	49.9	49.9	47.6
10°	49.9	49.9	49.9	49.9	49.1	49.1	49.1	48.3	48.3	48.3	45.3
12.5°	49.9	49.9	49.9	49.9	49.1	49.1	48.3	48.3	47.6	46.8	41.4
15°	54.5	54.5	54.5	53.7	52.9	52.2	51.4	50.6	49.9	48.3	38.4
17.5°	79.8	77.5	76.7	73.7	69.8	66.0	62.9	59.9	56.8	54.5	36.8
20°	187.2	186.5	182.6	173.4	163.4	151.9	140.4	127.4	109.0	96.7	36.8
22.5°	324.6	320.0	313.1	306.2	288.5	267.8	246.3	221.8	198.0	172.7	39.1
25°	519.5	530.2	507.2	488.8	458.1	420.5	379.8	346.1	303.1	263.2	45.3
27.5°	903.2	910.1	864.8	804.9	733.6	654.5	577.8	520.3	448.1	382.1	56.8
30°	1583.8	1590.7	1514.7	1387.3	1240.0	1110.3	934.6	780.4	638.4	528.7	66.8
31°	1976.7	1923.0	1834.7	1711.2	1524.7	1329.0	1118.0	931.6	752.0	607.7	69.8
32°	2318.1	2313.5	2210.7	2023.5	1836.2	1594.5	1332.9	1089.6	869.4	687.5	72.1
33°	2721.0	2690.3	2545.3	2368.8	2120.9	1877.7	1540.1	1262.3	989.9	776.5	73.7
34°	3044.0	2961.2	2901.3	2699.5	2437.8	2127.8	1766.4	1444.9	1140.3	862.5	74.4
35°	3281.1	3263.5	3146.9	2958.9	2692.6	2375.7	2010.4	1634.4	1266.1	962.2	74.4
36°	3532.1	3477.6	3364.0	3193.7	2934.3	2606.7	2196.9	1798.6	1412.7	1052.0	73.7
37°	3689.4	3657.1	3544.3	3368.6	3114.6	2801.6	2405.6	1972.1	1529.3	1141.8	72.1
38°	3851.3	3786.1	3674.8	3506.7	3257.4	2963.5	2556.8	2105.6	1636.7	1220.8	69.8
39°	3963.3	3895.8	3782.2	3614.9	3370.9	3079.3	2676.5	2219.1	1730.4	1279.9	66.8
40°	4047.7	3982.5	3867.4	3695.5	3454.6	3170.6	2776.2	2319.7	1808.6	1331.3	62.9
41°	4099.9	4039.3	3924.9	3753.8	3512.1	3222.8	2841.5	2384.9	1861.6	1365.9	59.1
42°	4143.6	4081.5	3964.8	3789.9	3547.4	3267.3	2881.4	2426.3	1897.6	1383.5	56.0
43°	4168.2	4106.0	3992.5	3813.7	3568.9	3288.0	2902.8	2445.5	1909.9	1381.2	50.6
44°	4182.0	4117.5	4003.2	3824.4	3578.1	3293.4	2904.4	2441.7	1901.5	1362.8	46.0
45°	4166.7	4103.0	3992.5	3813.7	3562.0	3276.5	2889.0	2421.0	1869.2	1326.7	40.7
46°	4066.9	4017.8	3916.5	3752.3	3511.3	3233.6	2849.9	2381.1	1819.4	1282.2	34.5
47°	3891.2	3852.0	3753.8	3631.8	3413.9	3154.5	2777.8	2305.1	1749.5	1215.5	27.6
48°	3707.8	3650.2	3558.9	3433.8	3249.7	3012.6	2658.8	2193.8	1643.6	1128.0	24.6
49°	3436.9	3403.2	3322.6	3182.9	3030.2	2821.5	2490.8	2051.1	1514.0	1032.8	21.5
50°	3188.3	3165.3	3052.5	2949.7	2787.7	2592.8	2262.9	1863.1	1352.8	914.7	19.2
51°	2994.2	2966.5	2885.2	2757.1	2584.4	2358.0	2047.3	1619.1	1167.9	774.2	15.3
52°	2791.6	2776.2	2704.1	2572.1	2402.5	2176.9	1837.8	1411.9	988.3	654.5	12.3
53°	2625.8	2603.6	2515.3	2397.9	2214.5	1981.3	1610.6	1219.3	837.2	550.2	10.7
54°	2384.1	2374.9	2318.1	2195.4	1996.6	1742.6	1405.0	1026.7	698.3	466.5	9.2
55°	2127.1	2096.4	2038.8	1941.4	1758.7	1521.6	1167.1	851.0	564.8	392.9	6.9
56°	1814.0	1812.5	1709.6	1628.3	1466.4	1214.7	932.3	664.5	458.9	327.7	6.1
57°	1514.7	1466.4	1367.4	1286.8	1112.6	921.6	692.1	498.0	359.1	265.5	4.6
58°	1120.3	1095.0	1068.9	950.7	789.6	653.0	494.2	349.9	265.5	202.6	3.1
59°	760.4	759.7	729.0	639.2	546.3	406.7	308.5	237.9	182.6	148.9	2.3
60°	574.0	560.2	498.8	439.7	343.8	257.1	182.6	140.4	113.6	95.9	1.5
62.5°	201.0	208.7	183.4	151.9	115.9	95.2	72.9	59.1	48.3	39.1	0.0
65°	41.4	45.3	39.1	36.8	29.2	25.3	22.3	19.2	16.1	13.8	0.0



TEST NUMBER: P1344689

CATALOG NUMBER: P3A13R25B2750DE010 E3CA451MMS_2700K

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	5.4	4.6	4.6	4.6	3.8	3.8	3.8	3.8	3.1	3.1	0.8
70°	2.3	2.3	2.3	2.3	2.3	2.3	1.5	1.5	1.5	1.5	0.8
72.5°	2.3	2.3	2.3	1.5	1.5	1.5	1.5	1.5	1.5	0.8	0.8
75°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.8
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5
85°	0.8	0.8	0.8	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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: P1344689

CATALOG NUMBER: P3A13R25B2750DE010 E3CA451MMS_2700K

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	44.5	44.5	44.5	44.5	44.5	44.5
2.5°	46.8	45.3	43.0	42.2	41.4	41.4
5°	46.0	43.0	40.7	38.4	37.6	37.6
7.5°	43.7	39.9	36.8	35.3	34.5	33.8
10°	41.4	36.1	33.0	31.5	31.5	31.5
12.5°	36.8	32.2	29.2	28.4	29.2	29.2
15°	33.0	27.6	26.1	26.1	26.9	27.6
17.5°	28.4	24.6	23.0	23.8	24.6	25.3
20°	25.3	20.7	20.7	21.5	23.8	23.8
22.5°	22.3	18.4	18.4	20.7	22.3	23.0
25°	20.0	16.1	16.9	19.2	21.5	22.3
27.5°	16.9	13.8	15.3	18.4	20.7	21.5
30°	14.6	12.3	14.6	17.6	20.0	21.5
31°	13.8	11.5	14.6	16.9	20.0	21.5
32°	12.3	11.5	13.8	16.9	20.0	20.7
33°	11.5	10.7	13.8	16.9	20.0	20.7
34°	10.7	10.0	13.0	16.9	20.0	20.7
35°	9.2	10.0	13.0	16.1	19.2	20.7
36°	8.4	9.2	13.0	16.1	19.2	20.7
37°	7.7	9.2	12.3	16.1	19.2	20.7
38°	6.9	8.4	12.3	16.1	19.2	20.7
39°	6.1	8.4	11.5	16.1	19.2	20.7
40°	5.4	7.7	11.5	15.3	19.2	20.7
41°	5.4	7.7	11.5	15.3	19.2	20.7
42°	4.6	7.7	11.5	15.3	19.2	20.7
43°	3.8	6.9	11.5	15.3	19.2	20.7
44°	3.1	6.9	10.7	15.3	19.2	20.7
45°	3.1	6.9	10.7	15.3	19.2	20.7
46°	2.3	6.1	10.7	15.3	19.2	20.7
47°	1.5	6.1	10.7	14.6	19.2	20.7
48°	1.5	6.1	10.7	14.6	19.2	20.7
49°	1.5	6.1	10.0	14.6	19.2	20.7
50°	1.5	6.1	10.0	14.6	19.2	20.7
51°	0.8	5.4	10.0	14.6	19.2	20.7
52°	0.8	5.4	10.0	14.6	19.2	21.5
53°	0.8	5.4	10.0	14.6	19.2	20.7
54°	0.8	5.4	9.2	14.6	19.2	20.7
55°	0.8	5.4	9.2	14.6	19.2	20.7
56°	0.8	4.6	9.2	13.8	19.2	20.7
57°	1.5	4.6	9.2	13.8	19.2	20.0
58°	1.5	4.6	9.2	13.8	18.4	20.0
59°	1.5	4.6	9.2	13.8	18.4	20.0
60°	1.5	4.6	8.4	13.8	18.4	20.0
62.5°	1.5	4.6	8.4	13.0	17.6	19.2
65°	1.5	4.6	7.7	12.3	17.6	18.4



TEST NUMBER: P1344689

CATALOG NUMBER: P3A13R25B2750DE010 E3CA451MMS_2700K

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	1.5	3.8	7.7	11.5	16.9	17.6
70°	2.3	3.8	6.9	11.5	16.1	16.9
72.5°	2.3	3.8	6.9	10.0	14.6	16.1
75°	2.3	3.8	6.1	9.2	13.8	14.6
77.5°	2.3	3.8	5.4	8.4	12.3	13.0
80°	3.1	3.8	4.6	6.9	10.7	11.5
82.5°	3.1	3.8	3.8	5.4	8.4	9.2
85°	2.3	3.1	3.1	3.8	5.4	6.1
87.5°	2.3	3.1	2.3	1.5	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)