

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: P1345709

Luminaire Tested: P3A13R35B2750DE010 E3CA451MMS_2700K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345709
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R35B2750DE010 E3CA451MMS_2700K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R35 optic, 2700K CCT AND, 90CRI , E3CA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

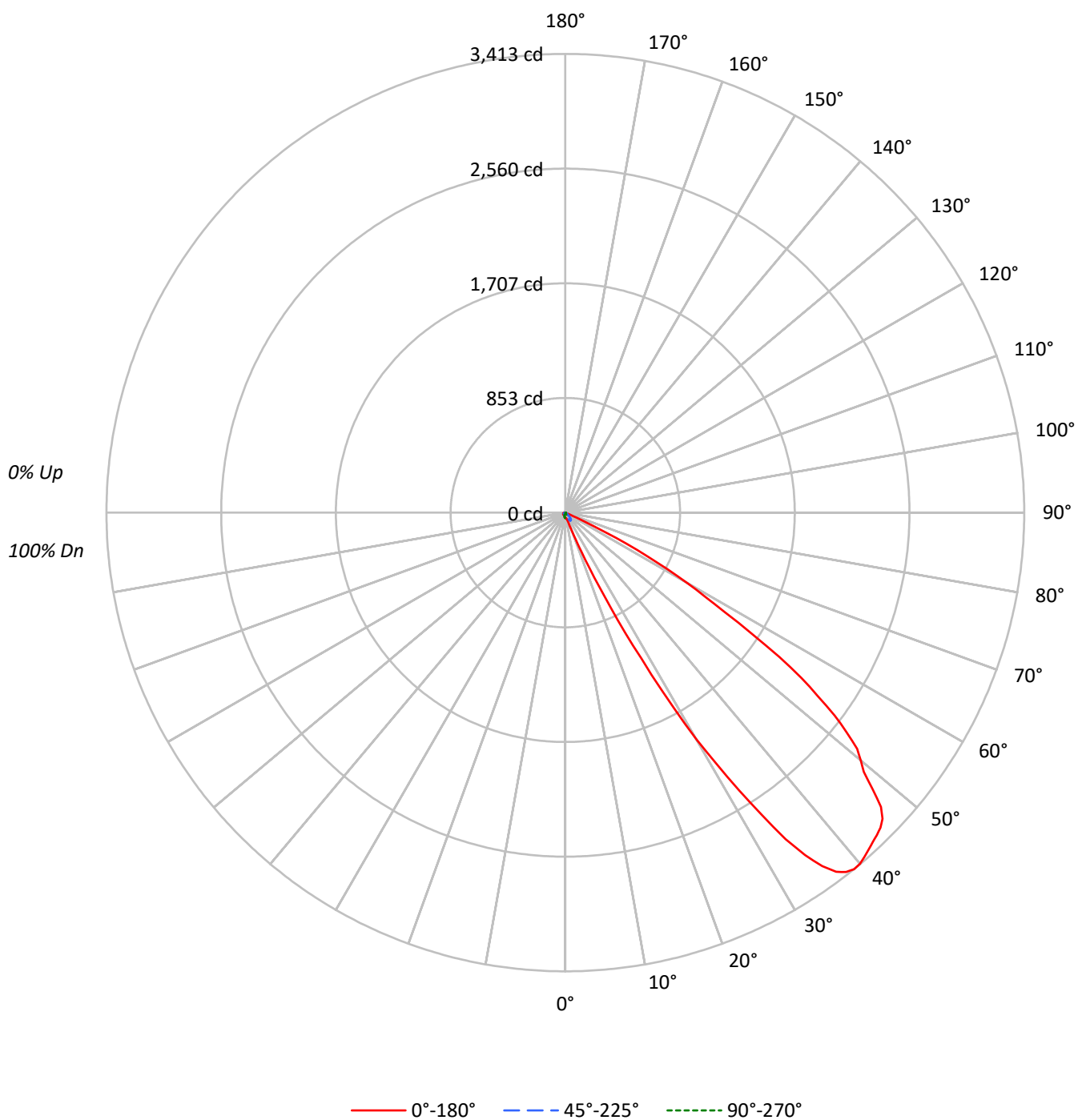
Lumens per Lamp: N/A
Luminaire Lumens: 850.0 lumens
Efficiency: N/A
Efficacy: 44.5 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

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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	102	102	100
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	89	89	87
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	75	75	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	63	63	61
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	52	52	50
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	44	44	42
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	37	37	35
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	31	31	29
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26	26	26	24
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	22	22	20
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19	19	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8574	8574	8574	8574	8574
5°	9289	9113	8453	7594	7440
10°	9730	8884	7526	6502	6502
15°	13939	8717	6107	5585	5744
20°	34910	9311	4830	4830	5367
25°	162082	11880	3702	4452	5008
30°	492709	16129	2912	4077	5039
35°	832710	18685	2463	3908	4926
40°	976086	18463	1975	3950	5267
45°	1027952	13087	1675	4280	5706
50°	978458	7846	1569	4435	6277
55°	819890	3211	1759	4970	7340
60°	458998	658	2017	5701	8070
65°	79230	415	1972	6382	9132
70°	1475	513	2436	6860	10322
75°	1271	678	3219	7795	11692
80°	1010	1010	3915	8713	13512
85°	0	2013	7799	9561	15347

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 1035230 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.5	0.4
10°-20°	10.0	1.2
20°-30°	52.2	6.1
30°-40°	225.2	26.5
40°-50°	321.3	37.8
50°-60°	199.0	23.4
60°-70°	30.3	3.6
70°-80°	5.7	0.7
80°-90°	2.8	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°	65.7	7.7
0°-40°	290.9	34.2
0°-60°	811.2	95.4
0°-90°	850.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	850.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	39	39	39	39	39	
5°	42	41	38	34	34	4
15°	61	38	27	25	25	22
25°	670	49	15	18	21	401
35°	3111	70	9	15	18	1868
45°	3315	42	5	14	18	2504
55°	2145	8	5	13	19	1827
65°	153	1	4	12	18	312
75°	2	1	4	9	14	2
85°	0	1	3	4	6	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
2.5°	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	39.1	38.4
5°	42.2	42.2	41.4	41.4	41.4	41.4	41.4	41.4	39.9	38.4	36.1
7.5°	43.0	43.0	42.2	42.2	42.2	42.2	41.4	40.7	39.1	36.1	33.8
10°	43.7	43.7	43.7	43.7	43.0	42.2	41.4	39.9	37.6	33.8	31.5
12.5°	49.1	49.1	48.3	46.8	45.3	43.7	42.2	39.1	34.5	30.7	28.4
15°	61.4	60.6	59.1	56.8	53.7	49.9	46.8	38.4	31.5	26.9	25.3
17.5°	85.9	84.4	82.1	74.4	67.5	60.6	54.5	38.4	28.4	23.8	22.3
20°	149.6	150.4	134.3	115.9	100.5	83.6	68.3	39.9	25.3	20.7	19.9
22.5°	312.3	300.0	261.7	217.1	165.7	128.1	96.7	43.7	22.3	17.6	17.6
25°	669.9	623.1	530.2	400.5	282.4	200.3	140.4	49.1	19.9	15.3	16.1
27.5°	1223.1	1180.9	994.4	748.9	497.2	302.3	190.3	56.0	17.6	13.0	14.6
30°	1945.9	1829.3	1586.0	1227.7	831.0	462.7	255.5	63.7	14.6	11.5	13.8
31°	2171.5	2117.8	1821.6	1420.3	973.7	549.4	283.1	66.0	13.8	11.5	13.0
32°	2439.3	2344.1	2078.6	1631.3	1118.7	626.9	316.1	68.3	13.0	10.0	13.0
33°	2678.7	2586.6	2263.6	1817.0	1265.3	715.1	351.4	69.1	11.5	10.0	12.3
34°	2930.3	2804.5	2484.5	2011.1	1415.7	810.3	383.7	69.8	10.7	9.2	12.3
35°	3110.7	2984.8	2674.8	2164.6	1545.4	894.7	420.5	69.8	10.0	9.2	11.5
36°	3250.3	3139.8	2839.0	2322.6	1674.3	970.6	449.6	69.8	8.4	8.4	11.5
37°	3346.2	3241.1	2949.5	2458.5	1772.5	1038.2	475.7	69.8	7.7	8.4	11.5
38°	3393.0	3305.6	3056.2	2557.4	1867.6	1091.1	496.4	68.3	6.9	7.7	10.7
39°	3413.0	3341.6	3121.4	2641.1	1939.0	1137.1	511.8	66.8	6.1	7.7	10.7
40°	3409.9	3347.8	3158.2	2698.6	1996.5	1168.6	520.2	64.5	5.4	6.9	10.7
41°	3392.3	3338.6	3177.4	2747.7	2031.1	1190.1	522.5	62.2	4.6	6.9	10.0
42°	3372.3	3323.2	3183.6	2773.8	2053.3	1197.0	516.4	59.1	4.6	6.1	10.0
43°	3351.6	3306.3	3183.6	2782.3	2058.7	1192.4	506.4	53.7	3.8	6.1	10.0
44°	3334.7	3291.7	3173.6	2780.0	2047.2	1174.7	488.0	47.6	3.1	6.1	10.0
45°	3314.8	3272.6	3160.5	2765.4	2024.9	1144.8	465.0	42.2	2.3	5.4	10.0
46°	3279.5	3246.5	3137.5	2735.4	1989.6	1103.4	435.8	38.4	1.5	5.4	9.2
47°	3211.2	3182.8	3093.0	2690.9	1942.8	1054.3	405.9	34.5	1.5	5.4	9.2
48°	3073.8	3073.1	3004.0	2608.1	1868.4	992.9	374.4	30.7	1.5	5.4	9.2
49°	2941.1	2927.3	2841.3	2462.3	1761.7	919.2	341.5	27.6	0.8	5.4	9.2
50°	2868.2	2838.3	2697.1	2290.4	1625.2	817.2	306.2	23.0	0.8	4.6	9.2
51°	2792.2	2749.3	2582.8	2135.4	1462.5	719.0	267.8	18.4	0.8	4.6	8.4
52°	2654.9	2614.2	2427.8	1987.3	1304.4	618.4	231.0	15.3	0.8	4.6	9.2
53°	2506.8	2448.5	2245.9	1824.7	1165.5	529.4	193.4	13.0	0.8	4.6	8.4
54°	2320.3	2294.2	2061.8	1625.2	1002.9	443.5	158.8	10.7	0.8	4.6	8.4
55°	2144.6	2106.3	1864.6	1421.1	855.5	363.7	132.7	8.4	0.8	4.6	8.4
56°	1920.6	1863.0	1636.7	1233.8	705.9	293.1	112.0	6.9	0.8	4.6	8.4
57°	1653.5	1592.2	1413.4	1025.9	554.0	223.3	93.6	5.4	0.8	4.6	8.4
58°	1398.8	1345.9	1154.0	791.9	417.4	155.0	77.5	3.8	0.8	3.8	8.4
59°	1208.5	1150.2	959.9	609.2	290.0	114.3	58.3	3.1	0.8	4.6	8.4
60°	1046.6	971.4	772.7	471.9	207.2	82.1	43.0	1.5	1.5	4.6	8.4
62.5°	603.1	532.5	369.1	191.8	85.2	42.2	20.7	0.8	1.5	4.6	8.4
65°	152.7	135.8	88.2	41.4	23.8	14.6	7.7	0.8	1.5	3.8	7.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	5.4	5.4	5.4	4.6	3.8	3.1	1.5	0.8	1.5	3.8	7.7
70°	2.3	2.3	2.3	1.5	1.5	0.8	0.8	0.8	1.5	3.8	6.9
72.5°	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	2.3	3.8	6.1
75°	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	2.3	3.8	6.1
77.5°	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8	2.3	3.1	5.4
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3	3.1	4.6
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3	3.1	3.8
85°	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.8	2.3	3.1	3.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.3	3.1	2.3
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):

	135°	157.5°	180°
0°	39.1	39.1	39.1
2.5°	36.8	36.8	36.8
5°	34.5	34.5	33.8
7.5°	32.2	31.5	31.5
10°	29.2	29.2	29.2
12.5°	26.9	26.9	26.9
15°	24.6	25.3	25.3
17.5°	22.3	23.8	23.8
20°	20.7	22.3	23.0
22.5°	19.2	20.7	21.5
25°	18.4	19.9	20.7
27.5°	16.9	19.2	20.7
30°	16.1	18.4	19.9
31°	16.1	18.4	19.2
32°	15.3	18.4	19.2
33°	15.3	18.4	19.2
34°	15.3	17.6	19.2
35°	14.6	17.6	18.4
36°	14.6	17.6	18.4
37°	14.6	17.6	19.2
38°	14.6	17.6	18.4
39°	13.8	17.6	18.4
40°	13.8	17.6	18.4
41°	13.8	17.6	18.4
42°	13.8	17.6	18.4
43°	13.8	17.6	18.4
44°	13.8	16.9	18.4
45°	13.8	16.9	18.4
46°	13.8	17.6	18.4
47°	13.8	17.6	19.2
48°	13.8	16.9	18.4
49°	13.0	16.9	18.4
50°	13.0	16.9	18.4
51°	13.0	17.6	19.2
52°	13.0	17.6	19.2
53°	13.0	17.6	19.2
54°	13.0	17.6	18.4
55°	13.0	17.6	19.2
56°	13.0	17.6	18.4
57°	13.0	17.6	18.4
58°	13.0	16.9	18.4
59°	13.0	16.9	18.4
60°	13.0	16.9	18.4
62.5°	12.3	16.9	18.4
65°	12.3	16.1	17.6



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	11.5	16.1	16.9
70°	10.7	15.3	16.1
72.5°	10.0	14.6	15.3
75°	9.2	13.0	13.8
77.5°	7.7	11.5	13.0
80°	6.9	10.0	10.7
82.5°	5.4	8.4	9.2
85°	3.8	6.1	6.1
87.5°	1.5	3.1	3.1
90°	0.0	0.0	0.0

(END OF REPORT)