

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: P1345710

Luminaire Tested: P3A13R35B2750DE010 E3CA451MMS_3000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345710
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_3000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R35 optic, 3000K CCT AND, 90CRI , E3CA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

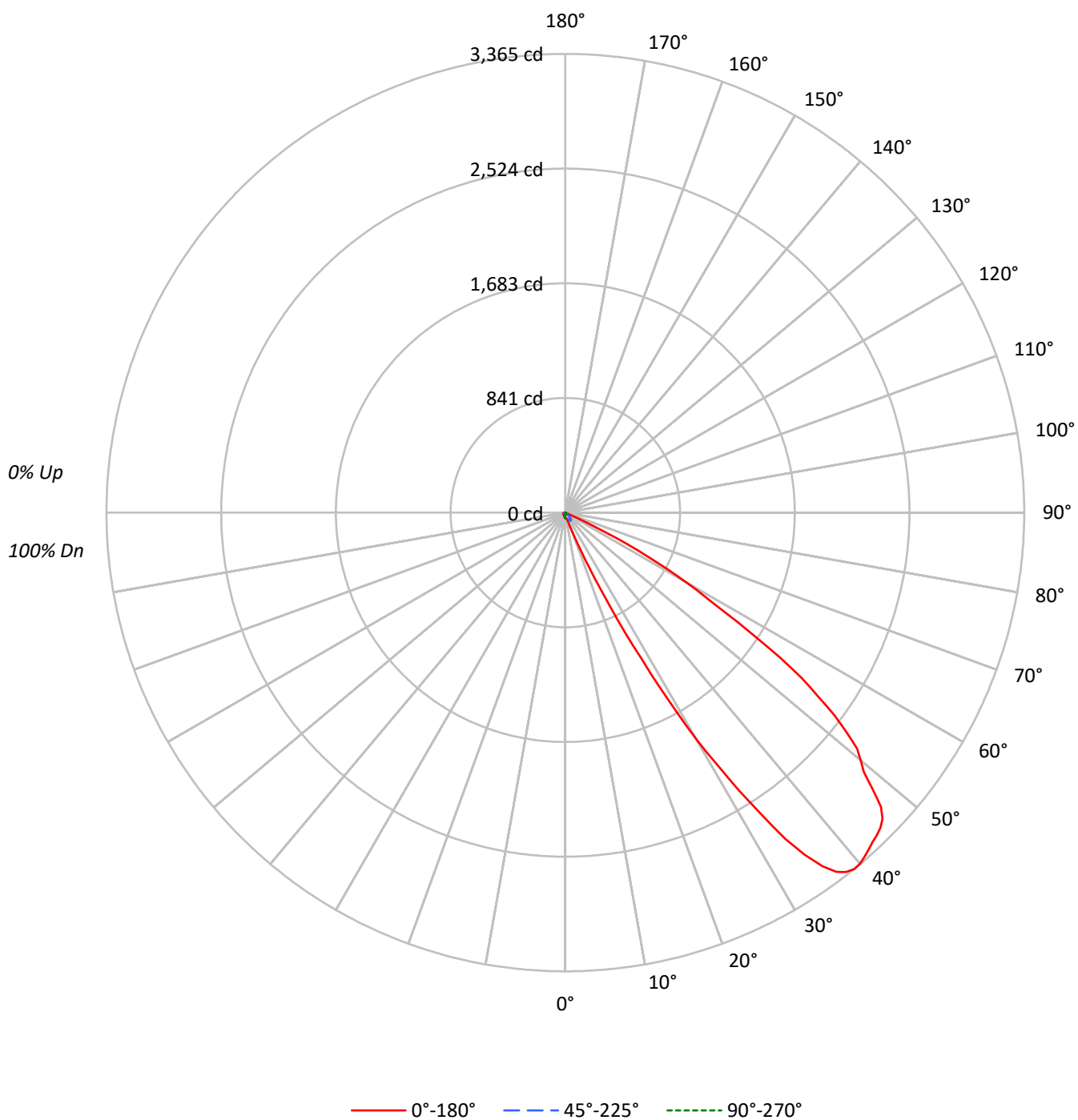
Lumens per Lamp: N/A
Luminaire Lumens: 838.0 lumens
Efficiency: N/A
Efficacy: 43.9 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	8464	8464	8464	8464	8464
5°	9157	8981	8320	7484	7330
10°	9597	8751	7415	6390	6390
15°	13734	8581	6016	5494	5675
20°	34420	9171	4760	4760	5297
25°	159783	11710	3653	4403	4936
30°	485746	15901	2861	4026	4988
35°	820932	18417	2436	3855	4872
40°	962317	18177	1947	3893	5210
45°	1013439	12901	1644	4217	5644
50°	964642	7744	1535	4401	6209
55°	808306	3173	1720	4932	7226
60°	452508	658	1974	5657	7982
65°	78089	415	1972	6278	9028
70°	1475	513	2436	6796	10194
75°	1271	678	3219	7710	11522
80°	1010	1010	3788	8587	13386
85°	0	2013	7548	9561	15347

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 1020614 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.5	0.4
10°-20°	9.9	1.2
20°-30°	51.4	6.1
30°-40°	222.1	26.5
40°-50°	316.8	37.8
50°-60°	196.2	23.4
60°-70°	29.9	3.6
70°-80°	5.6	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°	64.8	7.7
0°-40°	286.8	34.2
0°-60°	799.8	95.4
0°-90°	838.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	838.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	39	39	39	39	39	
5°	42	41	38	34	33	4
15°	60	38	26	24	25	22
25°	660	48	15	18	20	395
35°	3067	69	9	14	18	1841
45°	3268	42	5	14	18	2469
55°	2114	8	4	13	19	1801
65°	150	1	4	12	17	308
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°	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6
2.5°	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	38.6	37.8
5°	41.6	41.6	40.8	40.8	40.8	40.8	40.8	40.8	39.3	37.8	35.6
7.5°	42.4	42.4	41.6	41.6	41.6	41.6	40.8	40.1	38.6	35.6	33.3
10°	43.1	43.1	43.1	43.1	42.4	41.6	40.8	39.3	37.1	33.3	31.0
12.5°	48.4	48.4	47.7	46.1	44.6	43.1	41.6	38.6	34.0	30.3	28.0
15°	60.5	59.8	58.2	56.0	53.0	49.2	46.1	37.8	31.0	26.5	25.0
17.5°	84.7	83.2	80.9	73.4	66.6	59.8	53.7	37.8	28.0	23.5	21.9
20°	147.5	148.3	132.4	114.2	99.1	82.5	67.3	39.3	25.0	20.4	19.7
22.5°	307.9	295.8	258.0	214.1	163.4	126.3	95.3	43.1	21.9	17.4	17.4
25°	660.4	614.3	522.7	394.9	278.4	197.4	138.4	48.4	19.7	15.1	15.9
27.5°	1205.8	1164.2	980.4	738.3	490.2	298.1	187.6	55.2	17.4	12.9	14.4
30°	1918.4	1803.4	1563.6	1210.4	819.3	456.2	251.9	62.8	14.4	11.3	13.6
31°	2140.8	2087.9	1795.9	1400.2	960.0	541.6	279.1	65.1	13.6	11.3	12.9
32°	2404.8	2311.0	2049.3	1608.3	1102.9	618.0	311.7	67.3	12.9	9.8	12.9
33°	2640.9	2550.1	2231.6	1791.3	1247.4	705.0	346.5	68.1	11.3	9.8	12.1
34°	2889.0	2764.9	2449.5	1982.7	1395.7	798.8	378.2	68.8	10.6	9.1	12.1
35°	3066.7	2942.7	2637.1	2134.0	1523.5	882.0	414.5	68.8	9.8	9.1	11.3
36°	3204.4	3095.5	2799.0	2289.8	1650.6	956.9	443.3	68.8	8.3	8.3	11.3
37°	3299.0	3195.3	2907.9	2423.7	1747.5	1023.5	469.0	68.8	7.6	8.3	11.3
38°	3345.1	3258.9	3013.0	2521.3	1841.3	1075.7	489.4	67.3	6.8	7.6	10.6
39°	3364.8	3294.4	3077.3	2603.8	1911.6	1121.1	504.6	65.8	6.1	7.6	10.6
40°	3361.8	3300.5	3113.6	2660.5	1968.3	1152.1	512.9	63.5	5.3	6.8	10.6
41°	3344.4	3291.4	3132.6	2708.9	2002.4	1173.3	515.2	61.3	4.5	6.8	9.8
42°	3324.7	3276.3	3138.6	2734.7	2024.3	1180.1	509.1	58.2	4.5	6.1	9.8
43°	3304.3	3259.6	3138.6	2743.0	2029.6	1175.6	499.3	53.0	3.8	6.1	9.8
44°	3287.6	3245.3	3128.8	2740.7	2018.3	1158.2	481.1	46.9	3.0	6.1	9.8
45°	3268.0	3226.4	3115.9	2726.3	1996.3	1128.7	458.4	41.6	2.3	5.3	9.8
46°	3233.2	3200.6	3093.2	2696.8	1961.5	1087.8	429.7	37.8	1.5	5.3	9.1
47°	3165.8	3137.9	3049.3	2653.0	1915.4	1039.4	400.2	34.0	1.5	5.3	9.1
48°	3030.4	3029.7	2961.6	2571.3	1842.0	978.9	369.2	30.3	1.5	5.3	9.1
49°	2899.6	2885.9	2801.2	2427.5	1736.9	906.3	336.6	27.2	0.8	5.3	9.1
50°	2827.7	2798.2	2659.0	2258.1	1602.2	805.6	301.8	22.7	0.8	4.5	9.1
51°	2752.8	2710.4	2546.3	2105.3	1441.8	708.8	264.0	18.2	0.8	4.5	8.3
52°	2617.4	2577.3	2393.5	1959.3	1286.0	609.7	227.7	15.1	0.8	4.5	9.1
53°	2471.4	2413.9	2214.2	1798.9	1149.1	522.0	190.6	12.9	0.8	4.5	8.3
54°	2287.6	2261.9	2032.6	1602.2	988.7	437.2	156.6	10.6	0.8	4.5	8.3
55°	2114.3	2076.5	1838.2	1401.0	843.5	358.6	130.9	8.3	0.8	4.5	8.3
56°	1893.5	1836.7	1613.6	1216.4	696.0	289.0	110.4	6.8	0.8	4.5	8.3
57°	1630.2	1569.7	1393.4	1011.4	546.2	220.1	92.3	5.3	0.8	4.5	8.3
58°	1379.1	1326.9	1137.7	780.7	411.5	152.8	76.4	3.8	0.8	3.8	8.3
59°	1191.4	1134.0	946.3	600.6	285.9	112.7	57.5	3.0	0.8	4.5	8.3
60°	1031.8	957.7	761.8	465.2	204.2	80.9	42.4	1.5	1.5	4.5	8.3
62.5°	594.6	525.0	363.9	189.1	84.0	41.6	20.4	0.8	1.5	4.5	8.3
65°	150.5	133.9	87.0	40.8	23.5	14.4	7.6	0.8	1.5	3.8	7.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	5.3	5.3	5.3	4.5	3.8	3.0	1.5	0.8	1.5	3.8	7.6
70°	2.3	2.3	2.3	1.5	1.5	0.8	0.8	0.8	1.5	3.8	6.8
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	3.0	5.3
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3	3.0	4.5
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3	3.0	3.8
85°	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.8	2.3	3.0	3.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.3	3.0	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°	38.6	38.6	38.6
2.5°	36.3	36.3	36.3
5°	34.0	34.0	33.3
7.5°	31.8	31.0	31.0
10°	28.7	28.7	28.7
12.5°	26.5	26.5	26.5
15°	24.2	25.0	25.0
17.5°	21.9	23.5	23.5
20°	20.4	21.9	22.7
22.5°	18.9	20.4	21.2
25°	18.2	19.7	20.4
27.5°	16.6	18.9	20.4
30°	15.9	18.2	19.7
31°	15.9	18.2	18.9
32°	15.1	18.2	18.9
33°	15.1	18.2	18.9
34°	15.1	17.4	18.9
35°	14.4	17.4	18.2
36°	14.4	17.4	18.2
37°	14.4	17.4	18.9
38°	14.4	17.4	18.2
39°	13.6	17.4	18.2
40°	13.6	17.4	18.2
41°	13.6	17.4	18.2
42°	13.6	17.4	18.2
43°	13.6	17.4	18.2
44°	13.6	16.6	18.2
45°	13.6	16.6	18.2
46°	13.6	17.4	18.2
47°	13.6	17.4	18.9
48°	13.6	16.6	18.2
49°	12.9	16.6	18.2
50°	12.9	16.6	18.2
51°	12.9	17.4	18.9
52°	12.9	17.4	18.9
53°	12.9	17.4	18.9
54°	12.9	17.4	18.2
55°	12.9	17.4	18.9
56°	12.9	17.4	18.2
57°	12.9	17.4	18.2
58°	12.9	16.6	18.2
59°	12.9	16.6	18.2
60°	12.9	16.6	18.2
62.5°	12.1	16.6	18.2
65°	12.1	15.9	17.4



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	11.3	15.9	16.6
70°	10.6	15.1	15.9
72.5°	9.8	14.4	15.1
75°	9.1	12.9	13.6
77.5°	7.6	11.3	12.9
80°	6.8	9.8	10.6
82.5°	5.3	8.3	9.1
85°	3.8	6.1	6.1
87.5°	1.5	3.0	3.0
90°	0.0	0.0	0.0

(END OF REPORT)