

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: P1336271

Luminaire Tested: P3A02R45B2750DE010 E3CA451MMS_2700K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336271
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R45B2750DE010 E3CA451MMS_2700K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R45 optic, 2700K CCT AND, 90CRI , E3CA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

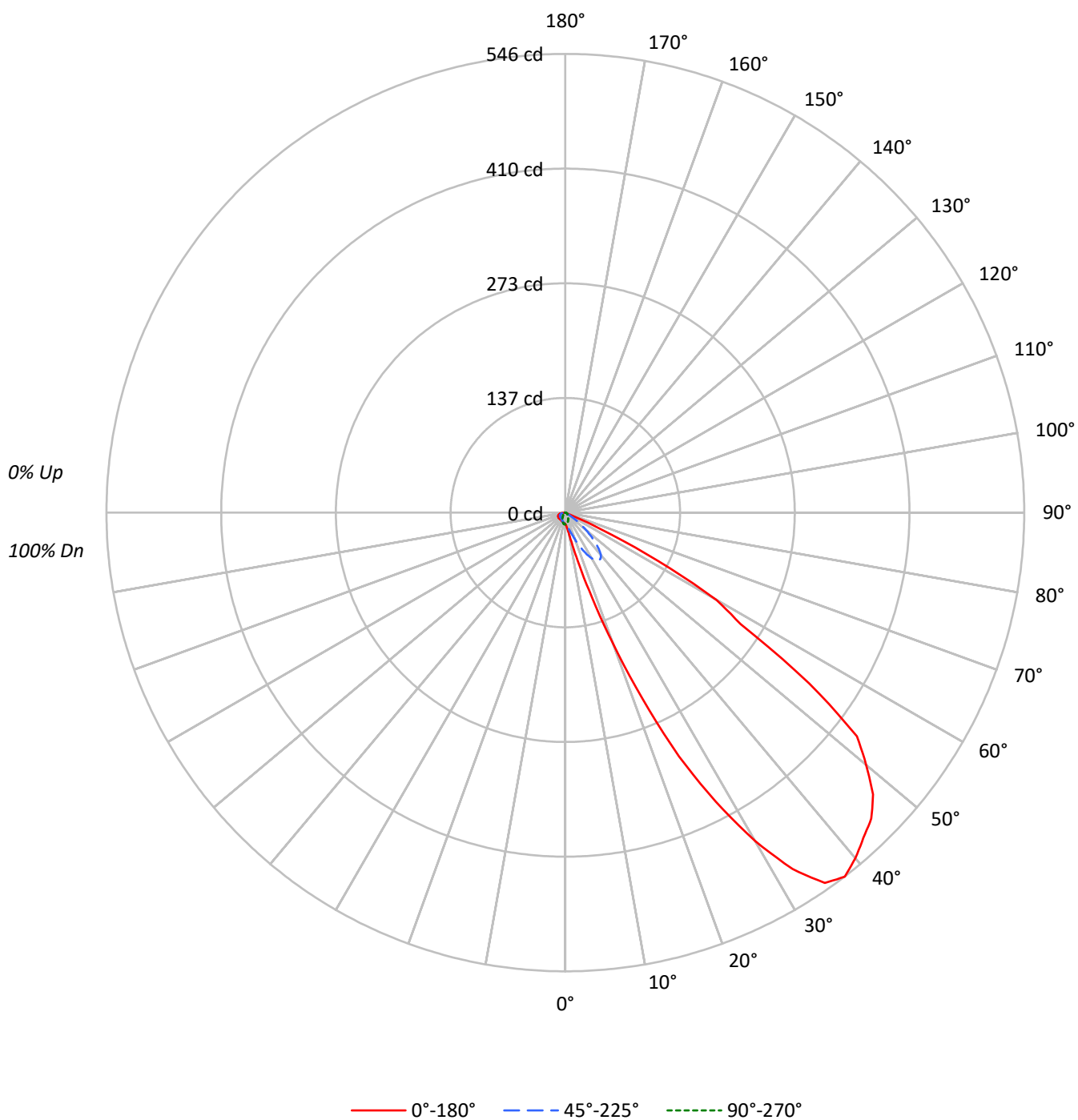
Lumens per Lamp: N/A
Luminaire Lumens: 244.0 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.83 / 1.83
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 2.9
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
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	107	104	100	97	99	97	94	96	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43		
6	69	55	46	40	67	54	46	39	52	45	39	51	44	39	49	43	38	36		
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33	31		
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28	26		
9	53	39	31	25	52	39	30	25	38	30	25	36	29	25	35	29	24	22		
10	49	36	27	22	48	35	27	22	34	27	21	33	26	21	32	26	21	19		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3092	3092	3092	3092	3092
5°	3676	3412	3060	2840	2840
10°	5878	3986	2872	2694	2694
15°	14643	5358	2611	2520	2611
20°	38573	8004	2264	2404	2544
25°	77472	11856	1960	2250	2492
30°	114195	15876	1570	2203	2557
35°	144045	18631	1338	2168	2650
40°	153688	18807	1202	2261	2834
45°	159675	15692	1116	2450	3070
50°	159415	10951	1092	2627	3446
55°	135489	4855	1147	2944	3785
60°	91089	965	1140	3289	4342
65°	24179	415	1141	3580	4929
70°	641	513	1154	3847	5578
75°	508	508	1186	4067	6354
80°	505	758	1263	4293	7072
85°	503	1006	2013	4529	7045

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 163781 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.4	0.6
10°-20°	6.9	2.8
20°-30°	28.4	11.6
30°-40°	59.8	24.5
40°-50°	73.8	30.2
50°-60°	55.3	22.7
60°-70°	14.2	5.8
70°-80°	2.9	1.2
80°-90°	1.2	0.5
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°	36.7	15.0
0°-40°	96.5	39.6
0°-60°	225.6	92.5
0°-90°	244.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	244.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	17	16	14	13	13	2
15°	64	24	12	11	12	24
25°	320	49	8	9	10	149
35°	538	70	5	8	10	328
45°	515	51	4	8	10	394
55°	354	13	3	8	10	306
65°	47	1	2	7	10	67
75°	1	1	1	5	8	1
85°	0	0	1	2	3	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°	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1
2.5°	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.7	14.5	14.1	13.7
5°	16.7	16.5	16.5	16.5	16.3	16.1	16.1	15.5	14.7	13.9	13.3
7.5°	19.8	19.8	19.6	19.2	19.0	18.5	18.1	16.5	14.7	13.5	12.7
10°	26.4	26.0	25.4	25.0	24.0	22.6	21.6	17.9	14.5	12.9	12.3
12.5°	39.5	40.3	38.3	36.3	33.5	30.8	27.6	20.4	14.5	12.3	11.7
15°	64.5	65.9	62.1	58.1	51.2	44.8	38.7	23.6	14.1	11.5	10.9
17.5°	105.4	107.3	100.8	91.3	80.6	67.7	56.7	28.0	13.7	10.7	10.3
20°	165.3	165.1	152.6	140.7	120.2	101.2	80.4	34.3	13.1	9.7	9.7
22.5°	238.9	239.7	224.4	203.0	173.8	143.3	110.3	41.5	12.3	8.9	9.1
25°	320.2	313.3	295.2	269.2	231.9	189.7	146.2	49.0	11.5	8.1	8.5
27.5°	387.9	381.2	360.5	329.6	289.5	239.5	182.7	56.5	10.5	7.3	7.9
30°	451.0	442.5	417.5	382.7	334.9	280.8	216.9	62.7	9.3	6.2	7.3
32.5°	503.0	495.4	466.9	426.4	374.4	316.3	246.0	67.5	8.1	5.6	6.9
35°	538.1	530.2	504.0	459.5	402.8	342.1	269.6	69.6	7.1	5.0	6.7
37.5°	546.2	541.9	523.2	481.4	422.4	358.7	284.7	69.0	5.8	4.6	6.2
40°	536.9	537.9	529.0	494.4	432.9	365.7	290.9	65.7	4.8	4.2	6.0
42.5°	525.0	527.6	527.0	499.6	437.3	366.1	288.3	59.3	3.8	3.8	5.8
45°	514.9	517.5	521.2	497.4	434.3	360.9	280.0	50.6	2.8	3.6	5.8
47.5°	496.6	499.4	504.6	479.6	418.9	347.4	265.1	41.1	2.0	3.4	5.6
50°	467.3	468.7	467.3	439.3	389.5	325.6	240.9	32.1	1.4	3.2	5.6
52.5°	437.3	434.5	422.8	387.3	342.7	291.1	210.5	22.8	1.0	3.0	5.4
55°	354.4	350.0	341.3	319.6	294.2	248.8	170.2	12.7	1.0	3.0	5.2
57.5°	247.0	249.4	252.4	248.0	236.3	196.0	129.2	5.6	1.0	2.8	5.2
60°	207.7	205.6	205.8	203.0	183.7	142.9	88.9	2.2	1.0	2.6	5.0
62.5°	124.0	125.4	128.0	128.6	109.5	79.8	46.6	1.0	1.0	2.4	4.8
65°	46.6	48.8	42.7	37.1	29.4	21.6	10.9	0.8	1.2	2.2	4.4
67.5°	1.4	1.6	2.0	1.8	1.8	1.6	1.2	0.8	1.2	2.0	4.2
70°	1.0	1.0	1.0	1.0	1.0	0.8	0.8	0.8	1.0	1.8	3.8
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.6	3.4
75°	0.6	0.8	0.6	0.6	0.6	0.6	0.6	0.6	1.0	1.4	2.8
77.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.8	1.2	2.4
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.8	1.0	2.0
82.5°	0.4	0.4	0.4	0.2	0.4	0.4	0.4	0.4	0.8	0.8	1.6
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6	0.8	1.0
87.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.4	0.6	0.6	0.6
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°	14.1	14.1	14.1
2.5°	13.3	13.3	13.3
5°	12.9	12.9	12.9
7.5°	12.5	12.5	12.5
10°	12.1	12.1	12.1
12.5°	11.7	11.7	11.9
15°	11.1	11.5	11.5
17.5°	10.7	11.1	11.3
20°	10.3	10.7	10.9
22.5°	9.7	10.3	10.7
25°	9.3	10.1	10.3
27.5°	8.9	9.9	10.3
30°	8.7	9.7	10.1
32.5°	8.3	9.5	9.9
35°	8.1	9.5	9.9
37.5°	8.1	9.3	9.9
40°	7.9	9.3	9.9
42.5°	7.9	9.3	9.9
45°	7.9	9.3	9.9
47.5°	7.7	9.3	10.1
50°	7.7	9.5	10.1
52.5°	7.7	9.5	10.1
55°	7.7	9.5	9.9
57.5°	7.5	9.3	9.9
60°	7.5	9.3	9.9
62.5°	7.1	9.1	9.7
65°	6.9	8.9	9.5
67.5°	6.5	8.7	9.1
70°	6.0	8.1	8.7
72.5°	5.4	7.7	8.3
75°	4.8	7.1	7.5
77.5°	4.2	6.2	6.7
80°	3.4	5.2	5.6
82.5°	2.6	4.0	4.2
85°	1.8	2.6	2.8
87.5°	0.8	1.2	1.4
90°	0.0	0.0	0.0

(END OF REPORT)