

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: P1336277

Luminaire Tested: P3A02R45B2750DE010 E3CA451MW_3000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336277
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 E3CA451MW_3000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R45 optic, 3000K CCT AND, 90CRI , E3CA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

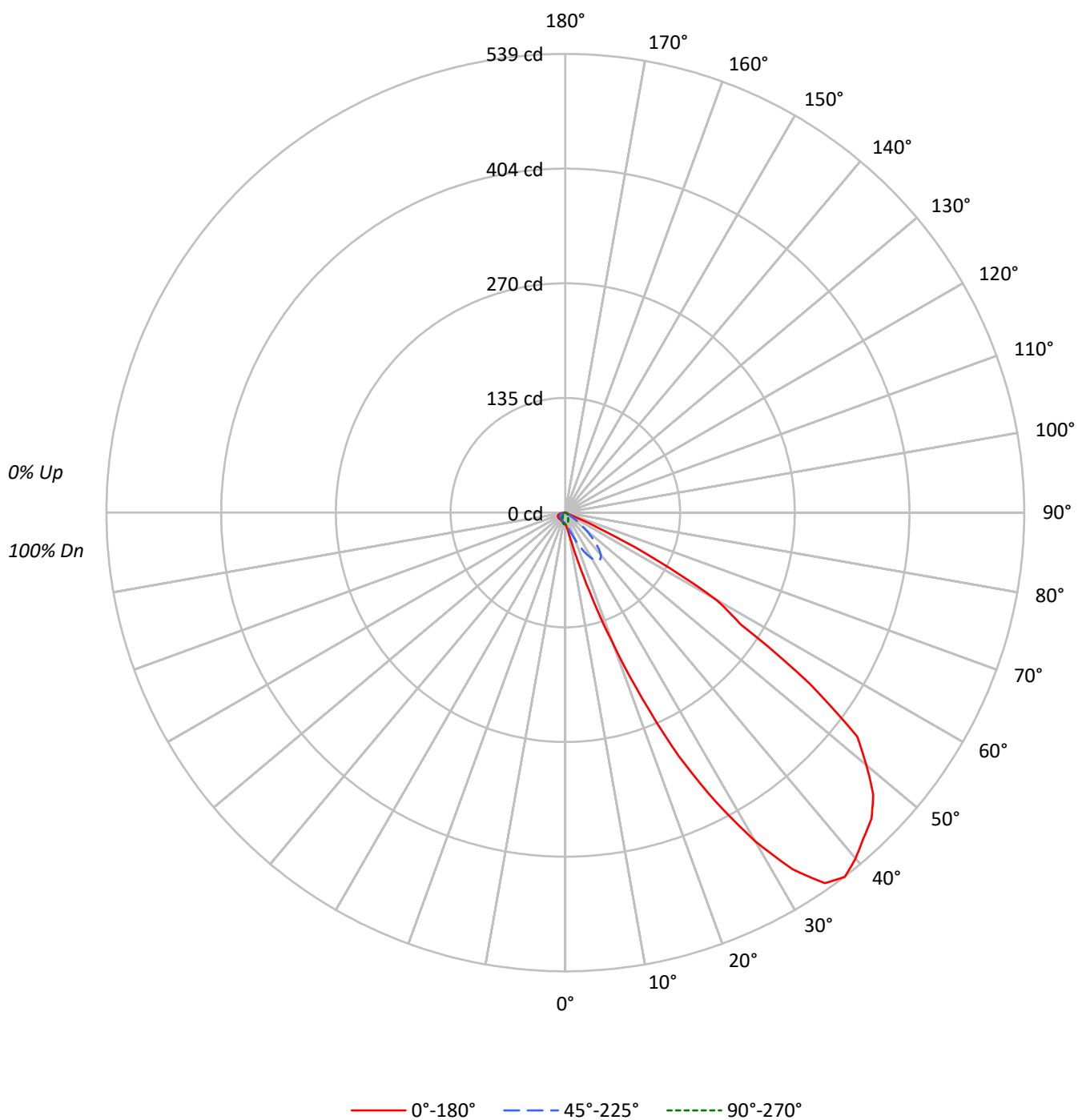
Lumens per Lamp: N/A
Luminaire Lumens: 241.1 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.83 / 1.83
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			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	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	39	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	35	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°	3048	3048	3048	3048	3048
5°	3632	3368	3016	2796	2796
10°	5812	3941	2828	2650	2650
15°	14461	5289	2588	2497	2588
20°	38107	7911	2240	2380	2520
25°	76504	11710	1936	2226	2468
30°	112802	15673	1570	2178	2532
35°	142278	18390	1338	2142	2623
40°	151799	18578	1202	2233	2805
45°	157722	15505	1116	2419	3039
50°	157470	10814	1092	2593	3411
55°	133845	4779	1147	2906	3747
60°	89949	965	1140	3245	4298
65°	23868	415	1141	3528	4877
70°	641	513	1154	3847	5514
75°	508	508	1186	4067	6270
80°	505	758	1263	4293	7072
85°	503	1006	2013	4529	7045

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 161769 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.4	0.6
10°-20°	6.8	2.8
20°-30°	28.0	11.6
30°-40°	59.1	24.5
40°-50°	72.9	30.2
50°-60°	54.7	22.7
60°-70°	14.1	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°	36.2	15.0
0°-40°	95.3	39.5
0°-60°	222.9	92.5
0°-90°	241.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	241.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	16	15	14	13	13	2
15°	64	23	11	11	11	23
25°	316	48	8	9	10	147
35°	532	69	5	8	10	324
45°	509	50	4	8	10	389
55°	350	12	3	8	10	302
65°	46	1	2	7	9	66
75°	1	1	1	5	7	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°	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
2.5°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.5	14.3	13.9	13.5
5°	16.5	16.3	16.3	16.3	16.1	15.9	15.9	15.3	14.5	13.7	13.1
7.5°	19.5	19.5	19.3	18.9	18.7	18.3	17.9	16.3	14.5	13.3	12.5
10°	26.1	25.7	25.1	24.7	23.7	22.3	21.3	17.7	14.3	12.7	12.1
12.5°	39.0	39.8	37.8	35.8	33.1	30.5	27.3	20.1	14.3	12.1	11.5
15°	63.7	65.1	61.3	57.4	50.6	44.2	38.2	23.3	13.9	11.4	10.8
17.5°	104.1	105.9	99.6	90.2	79.7	66.9	56.0	27.7	13.5	10.6	10.2
20°	163.3	163.1	150.7	139.0	118.7	100.0	79.5	33.9	12.9	9.6	9.6
22.5°	236.0	236.8	221.6	200.5	171.7	141.6	108.9	41.0	12.1	8.8	9.0
25°	316.2	309.5	291.5	265.8	229.0	187.4	144.4	48.4	11.4	8.0	8.4
27.5°	383.1	376.6	356.0	325.6	286.0	236.6	180.4	55.8	10.4	7.2	7.8
30°	445.5	437.1	412.4	378.0	330.8	277.4	214.3	61.9	9.2	6.2	7.2
32.5°	496.8	489.3	461.2	421.2	369.8	312.4	242.9	66.7	8.0	5.6	6.8
35°	531.5	523.7	497.8	453.8	397.9	337.9	266.2	68.7	7.0	5.0	6.6
37.5°	539.4	535.3	516.7	475.5	417.2	354.3	281.2	68.1	5.8	4.6	6.2
40°	530.3	531.3	522.5	488.3	427.5	361.2	287.3	64.9	4.8	4.2	6.0
42.5°	518.5	521.1	520.5	493.5	431.9	361.6	284.8	58.5	3.8	3.8	5.8
45°	508.6	511.2	514.8	491.3	428.9	356.4	276.6	50.0	2.8	3.6	5.8
47.5°	490.5	493.3	498.4	473.7	413.8	343.1	261.9	40.6	2.0	3.4	5.6
50°	461.6	463.0	461.6	433.9	384.7	321.6	238.0	31.7	1.4	3.2	5.6
52.5°	431.9	429.1	417.6	382.5	338.5	287.5	207.9	22.5	1.0	3.0	5.4
55°	350.1	345.7	337.1	315.6	290.5	245.7	168.1	12.5	1.0	3.0	5.2
57.5°	243.9	246.3	249.3	244.9	233.4	193.6	127.6	5.6	1.0	2.8	5.2
60°	205.1	203.1	203.3	200.5	181.4	141.2	87.8	2.2	1.0	2.6	5.0
62.5°	122.5	123.9	126.4	127.0	108.1	78.9	46.0	1.0	1.0	2.4	4.8
65°	46.0	48.2	42.2	36.6	29.1	21.3	10.8	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°	13.9	13.9	13.9
2.5°	13.1	13.1	13.1
5°	12.7	12.7	12.7
7.5°	12.3	12.3	12.3
10°	11.9	11.9	11.9
12.5°	11.5	11.5	11.7
15°	11.0	11.4	11.4
17.5°	10.6	11.0	11.2
20°	10.2	10.6	10.8
22.5°	9.6	10.2	10.6
25°	9.2	10.0	10.2
27.5°	8.8	9.8	10.2
30°	8.6	9.6	10.0
32.5°	8.2	9.4	9.8
35°	8.0	9.4	9.8
37.5°	8.0	9.2	9.8
40°	7.8	9.2	9.8
42.5°	7.8	9.2	9.8
45°	7.8	9.2	9.8
47.5°	7.6	9.2	10.0
50°	7.6	9.4	10.0
52.5°	7.6	9.4	10.0
55°	7.6	9.4	9.8
57.5°	7.4	9.2	9.8
60°	7.4	9.2	9.8
62.5°	7.0	9.0	9.6
65°	6.8	8.8	9.4
67.5°	6.4	8.6	9.0
70°	6.0	8.0	8.6
72.5°	5.4	7.6	8.2
75°	4.8	7.0	7.4
77.5°	4.2	6.2	6.6
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)