

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: P1336261

Luminaire Tested: P3A02R45B2750DE010 E3CA301MW_2700K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336261
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R45B2750DE010 E3CA301MW_2700K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R45 optic, 2700K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

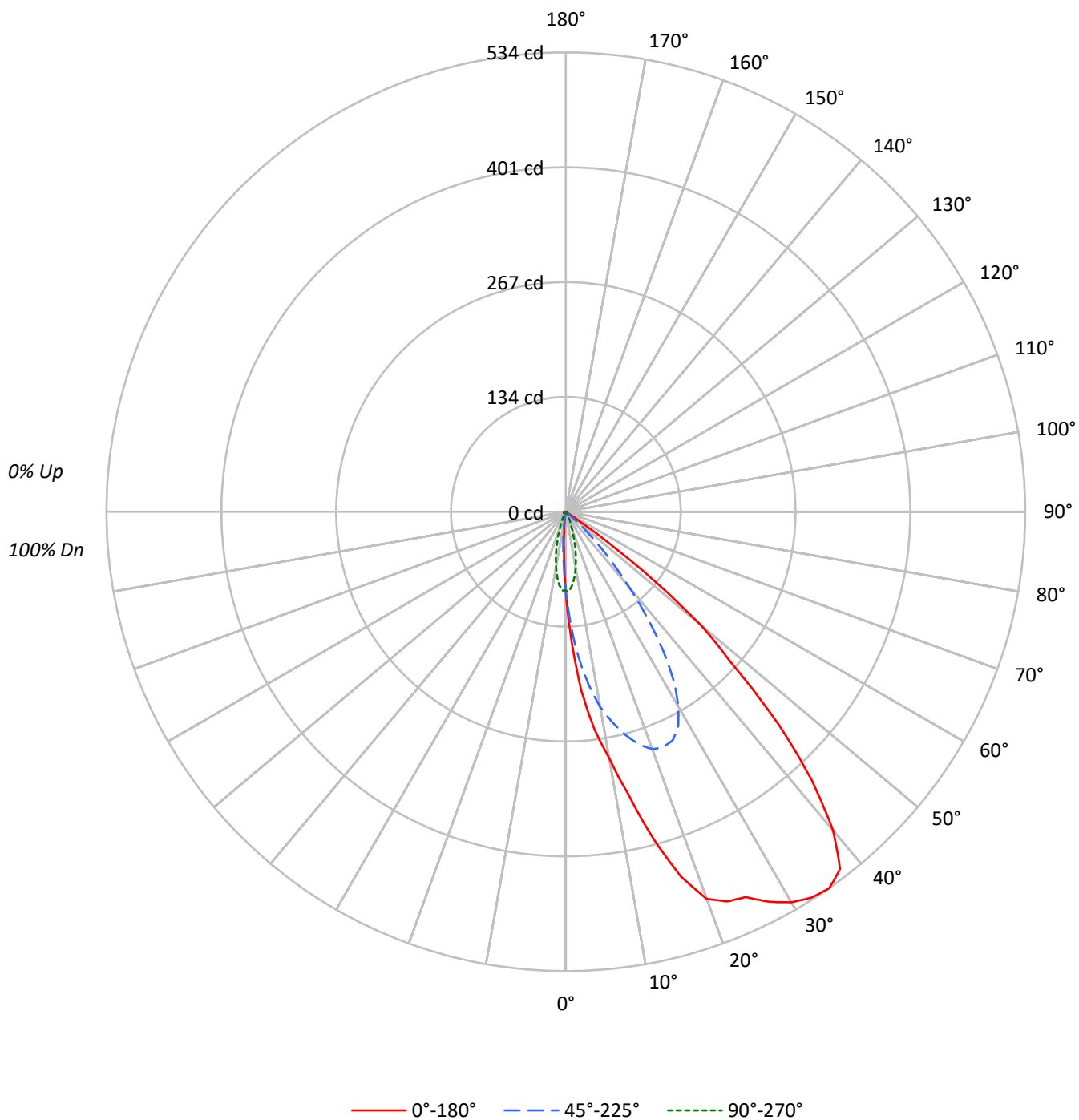
Lumens per Lamp: N/A
Luminaire Lumens: 241.9 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82		
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45		
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41		
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	20196	20196	20196	20196	20196
5°	46027	37332	18886	7572	5173
10°	64840	51279	14607	1670	757
15°	89354	61022	9330	545	454
20°	111730	68536	4854	373	373
25°	119571	70964	2250	290	339
30°	132729	66263	1013	304	354
35°	142974	52816	321	321	428
40°	138345	32718	172	401	515
45°	108631	15443	186	496	620
50°	69797	1808	273	614	819
55°	10590	153	306	765	994
60°	175	175	351	877	1053
65°	208	208	415	934	1245
70°	256	256	513	1026	1410
75°	169	339	678	1186	1525
80°	253	505	758	1263	1768
85°	0	503	1006	1510	1510

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 108631 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.1	4.2
10°-20°	36.4	15.1
20°-30°	64.0	26.5
30°-40°	72.7	30.0
40°-50°	47.1	19.5
50°-60°	9.2	3.8
60°-70°	1.1	0.5
70°-80°	0.9	0.4
80°-90°	0.4	0.2
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°	110.5	45.7
0°-40°	183.2	75.7
0°-60°	239.5	99.0
0°-90°	241.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	241.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	92	92	92	92	92	
5°	209	170	86	34	24	22
15°	394	269	41	2	2	113
25°	494	293	9	1	1	232
35°	534	197	1	1	2	328
45°	350	50	1	2	2	264
55°	28	0	1	2	3	53
65°	0	0	1	2	2	0
75°	0	0	1	1	2	0
85°	0	0	0	1	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
2.5°	149.6	149.2	149.8	145.7	145.5	142.5	141.7	138.2	133.6	131.3	126.1
5°	209.1	207.0	207.0	202.2	200.6	197.1	191.3	184.0	177.9	169.6	160.7
7.5°	255.0	254.6	254.6	250.4	246.3	241.4	233.6	225.3	215.5	202.8	189.8
10°	291.2	291.8	290.0	286.2	280.3	275.0	265.7	255.6	243.7	230.3	213.1
12.5°	337.0	332.5	331.1	322.4	314.9	304.8	293.7	282.1	267.4	250.6	231.1
15°	393.6	388.0	382.3	370.8	358.2	342.6	325.2	308.2	289.2	268.8	244.5
17.5°	444.2	444.2	436.7	418.5	402.3	379.3	355.8	333.1	310.7	283.7	253.4
20°	478.8	477.0	471.4	458.0	439.6	413.5	382.9	351.1	324.0	293.7	258.4
22.5°	490.2	489.8	490.0	482.1	467.3	440.2	402.7	365.3	331.3	296.1	256.0
25°	494.2	495.0	497.1	494.0	482.9	455.8	414.9	372.0	333.5	293.3	246.7
27.5°	511.0	509.4	511.6	509.6	497.1	464.7	417.3	370.4	328.7	282.9	230.1
30°	524.2	523.8	527.6	525.8	509.4	470.3	415.1	364.3	316.7	261.7	204.0
32.5°	531.7	531.9	532.9	525.4	501.1	458.0	404.2	352.0	294.3	234.0	170.0
35°	534.1	532.9	527.2	508.8	475.6	429.5	377.2	322.6	263.7	197.3	134.4
37.5°	523.6	517.3	502.7	475.2	436.7	393.6	342.8	285.6	221.8	155.8	100.2
40°	483.3	475.0	456.6	428.5	392.6	350.9	298.9	239.0	172.0	114.3	70.4
42.5°	423.0	418.7	399.5	375.0	344.7	302.6	248.9	188.2	127.3	78.9	44.9
45°	350.3	344.9	332.7	311.1	287.2	243.1	193.1	134.8	86.8	49.8	22.3
47.5°	262.7	263.1	254.8	238.4	214.9	178.1	132.2	90.5	54.4	25.7	5.1
50°	204.6	201.8	190.0	173.2	145.9	118.6	85.4	57.1	28.7	5.3	0.4
52.5°	113.3	115.2	108.9	103.4	89.3	70.8	50.4	28.9	6.1	0.6	0.4
55°	27.7	29.3	28.1	28.7	29.8	26.5	20.4	5.7	0.6	0.4	0.4
57.5°	0.6	0.6	0.6	0.6	1.0	1.4	1.4	0.4	0.4	0.4	0.4
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
62.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
70°	0.4	0.4	0.4	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4
82.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
2.5°	123.5	119.6	112.5	91.5	73.5	59.3	50.8	50.0
5°	152.8	142.5	127.5	85.8	54.2	34.4	24.9	23.5
7.5°	176.1	161.5	138.4	76.5	37.0	17.6	9.7	8.1
10°	195.3	174.7	144.1	65.6	23.3	7.5	4.0	3.4
12.5°	208.5	183.6	145.1	53.4	13.4	3.6	2.6	2.4
15°	217.0	186.4	140.3	41.1	7.5	2.4	2.2	2.0
17.5°	220.4	184.0	130.9	29.8	4.0	1.8	1.8	1.8
20°	218.8	176.1	117.2	20.8	2.6	1.6	1.6	1.6
22.5°	211.1	162.5	100.0	14.0	1.8	1.4	1.4	1.4
25°	195.9	144.1	81.8	9.3	1.2	1.2	1.4	1.4
27.5°	173.2	121.4	62.5	6.3	1.0	1.2	1.4	1.4
30°	144.7	96.1	44.9	4.0	1.0	1.2	1.2	1.4
32.5°	115.0	70.0	29.5	2.4	0.8	1.2	1.4	1.6
35°	83.4	47.8	18.8	1.2	1.0	1.2	1.4	1.6
37.5°	58.5	31.2	10.9	0.8	1.0	1.2	1.6	1.6
40°	38.0	17.4	4.0	0.6	1.0	1.4	1.6	1.8
42.5°	19.8	6.1	0.8	0.6	1.0	1.4	1.8	2.0
45°	5.1	0.8	0.2	0.6	1.2	1.6	2.0	2.0
47.5°	0.6	0.2	0.2	0.8	1.2	1.8	2.0	2.2
50°	0.2	0.4	0.4	0.8	1.2	1.8	2.2	2.4
52.5°	0.4	0.4	0.4	0.8	1.4	1.8	2.4	2.6
55°	0.4	0.4	0.4	0.8	1.4	2.0	2.4	2.6
57.5°	0.4	0.4	0.4	0.8	1.4	2.0	2.4	2.4
60°	0.4	0.4	0.4	0.8	1.4	2.0	2.4	2.4
62.5°	0.4	0.4	0.6	0.8	1.4	1.8	2.4	2.4
65°	0.4	0.6	0.6	0.8	1.4	1.8	2.2	2.4
67.5°	0.4	0.4	0.6	0.8	1.4	1.8	2.2	2.4
70°	0.4	0.4	0.6	0.8	1.2	1.6	2.0	2.2
72.5°	0.4	0.4	0.6	0.8	1.2	1.6	1.8	2.0
75°	0.4	0.4	0.6	0.8	1.0	1.4	1.8	1.8
77.5°	0.4	0.4	0.6	0.6	1.0	1.2	1.6	1.6
80°	0.4	0.4	0.6	0.6	0.8	1.0	1.2	1.4
82.5°	0.4	0.4	0.4	0.6	0.6	0.8	1.0	1.0
85°	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.6
87.5°	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)