

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: P1336262

Luminaire Tested: P3A02R45B2750DE010 E3CA301MW_3000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336262
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_3000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R45 optic, 3000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

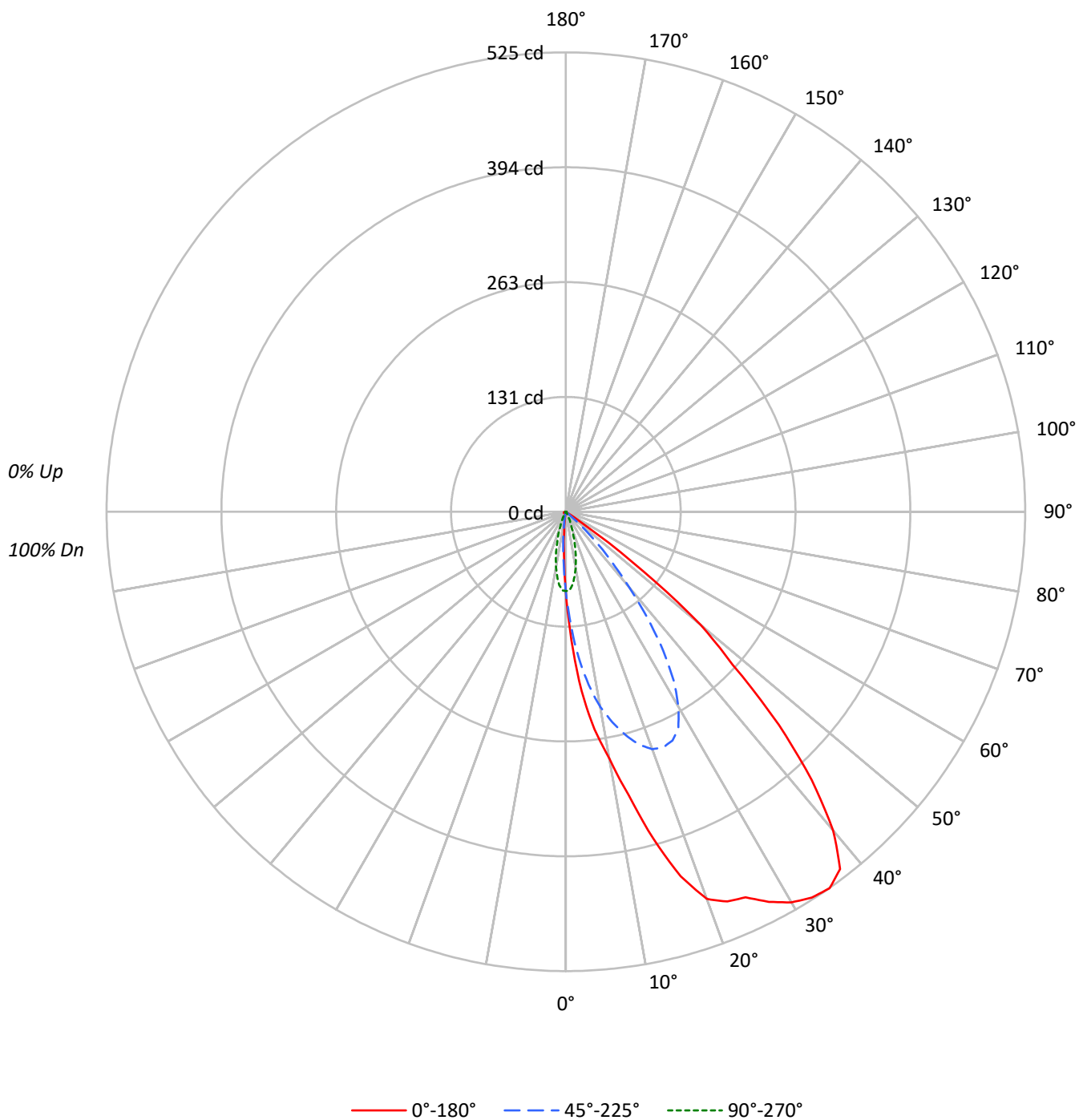
Lumens per Lamp: N/A
Luminaire Lumens: 238.0 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1336262

CATALOG NUMBER: P3A02R45B2750DE010 E3CA301MW_3000K

Luminous Intensity Polar Plot



TEST NUMBER: P1336262

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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	0
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°	19867	19867	19867	19867	19867
5°	45256	36716	18578	7440	5085
10°	63771	50433	14362	1648	757
15°	87878	60000	9171	545	454
20°	109886	67393	4784	373	373
25°	117612	69778	2226	290	339
30°	130526	65175	1013	304	354
35°	140619	51959	321	321	428
40°	136055	32203	172	401	515
45°	106833	15195	186	496	620
50°	68637	1774	273	614	819
55°	10437	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: 106833 cd/sqm

TEST NUMBER: P1336262

CATALOG NUMBER: P3A02R45B2750DE010 E3CA301MW_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.9	4.2
10°-20°	35.8	15.1
20°-30°	63.0	26.4
30°-40°	71.5	30.0
40°-50°	46.3	19.4
50°-60°	9.1	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°	108.7	45.7
0°-40°	180.2	75.7
0°-60°	235.6	99.0
0°-90°	238.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	238.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	91	91	91	91	91	
5°	206	167	84	34	23	22
15°	387	264	40	2	2	112
25°	486	288	9	1	1	228
35°	525	194	1	1	2	323
45°	344	49	1	2	2	260
55°	27	0	1	2	3	52
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	



TEST NUMBER: P1336262

CATALOG NUMBER: P3A02R45B2750DE010 E3CA301MW_3000K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
2.5°	147.1	146.7	147.3	143.3	143.1	140.1	139.3	135.9	131.4	129.2	124.0
5°	205.6	203.6	203.6	198.8	197.2	193.9	188.1	180.9	175.0	166.8	158.0
7.5°	250.8	250.4	250.4	246.2	242.2	237.5	229.7	221.5	212.0	199.4	186.7
10°	286.4	287.0	285.2	281.4	275.7	270.5	261.3	251.4	239.6	226.5	209.6
12.5°	331.4	327.0	325.6	317.1	309.7	299.8	288.8	277.5	262.9	246.4	227.3
15°	387.1	381.6	376.0	364.6	352.3	337.0	319.9	303.1	284.4	264.3	240.4
17.5°	436.9	436.9	429.5	411.6	395.7	373.0	349.9	327.6	305.5	279.1	249.2
20°	470.9	469.1	463.6	450.4	432.3	406.6	376.6	345.3	318.7	288.8	254.2
22.5°	482.1	481.7	481.9	474.1	459.6	432.9	396.1	359.3	325.8	291.2	251.8
25°	486.1	486.9	488.8	485.9	474.9	448.2	408.0	365.8	328.0	288.4	242.6
27.5°	502.6	501.0	503.2	501.2	488.8	457.0	410.4	364.2	323.2	278.3	226.3
30°	515.5	515.1	518.9	517.1	501.0	462.6	408.2	358.3	311.5	257.4	200.6
32.5°	522.9	523.1	524.1	516.7	492.8	450.4	397.5	346.1	289.4	230.1	167.2
35°	525.3	524.1	518.5	500.4	467.7	422.4	371.0	317.3	259.4	194.1	132.2
37.5°	514.9	508.7	494.4	467.3	429.5	387.1	337.2	280.8	218.1	153.3	98.5
40°	475.3	467.1	449.0	421.4	386.1	345.1	294.0	235.1	169.2	112.5	69.3
42.5°	416.0	411.8	392.9	368.8	339.0	297.6	244.8	185.1	125.2	77.6	44.2
45°	344.5	339.2	327.2	305.9	282.4	239.0	189.9	132.6	85.4	49.0	21.9
47.5°	258.4	258.8	250.6	234.5	211.4	175.2	130.0	89.0	53.5	25.3	5.0
50°	201.2	198.4	186.9	170.4	143.5	116.6	84.0	56.1	28.3	5.2	0.4
52.5°	111.5	113.3	107.1	101.7	87.8	69.7	49.6	28.5	6.0	0.6	0.4
55°	27.3	28.9	27.7	28.3	29.3	26.1	20.1	5.6	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

TEST NUMBER: P1336262

CATALOG NUMBER: P3A02R45B2750DE010 E3CA301MW_3000K

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
2.5°	121.4	117.6	110.7	90.0	72.3	58.3	50.0	49.2
5°	150.3	140.1	125.4	84.4	53.3	33.8	24.5	23.1
7.5°	173.2	158.8	136.1	75.2	36.4	17.3	9.6	8.0
10°	192.1	171.8	141.7	64.5	22.9	7.4	4.0	3.4
12.5°	205.0	180.5	142.7	52.5	13.1	3.6	2.6	2.4
15°	213.4	183.3	137.9	40.4	7.4	2.4	2.2	2.0
17.5°	216.8	180.9	128.8	29.3	4.0	1.8	1.8	1.8
20°	215.2	173.2	115.2	20.5	2.6	1.6	1.6	1.6
22.5°	207.6	159.8	98.3	13.7	1.8	1.4	1.4	1.4
25°	192.7	141.7	80.4	9.2	1.2	1.2	1.4	1.4
27.5°	170.4	119.4	61.5	6.2	1.0	1.2	1.4	1.4
30°	142.3	94.5	44.2	4.0	1.0	1.2	1.2	1.4
32.5°	113.1	68.9	29.1	2.4	0.8	1.2	1.4	1.6
35°	82.0	47.0	18.5	1.2	1.0	1.2	1.4	1.6
37.5°	57.5	30.7	10.7	0.8	1.0	1.2	1.6	1.6
40°	37.4	17.1	4.0	0.6	1.0	1.4	1.6	1.8
42.5°	19.5	6.0	0.8	0.6	1.0	1.4	1.8	2.0
45°	5.0	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)