

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: P#

Luminaire Tested: P3ART09R70B2750DE010 E3LSWW1WMH_2700K

Issue Date: 5/8/2026

Test Information

Test Method: LM-79-2019
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3ART09R70B2750DE010 E3LSWW1WMH_2700K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R70 optic, 2700K CCT AND, 90CRI , E3LSWW1WMH TRIM
Light Source: -
Ballast/Driver: -

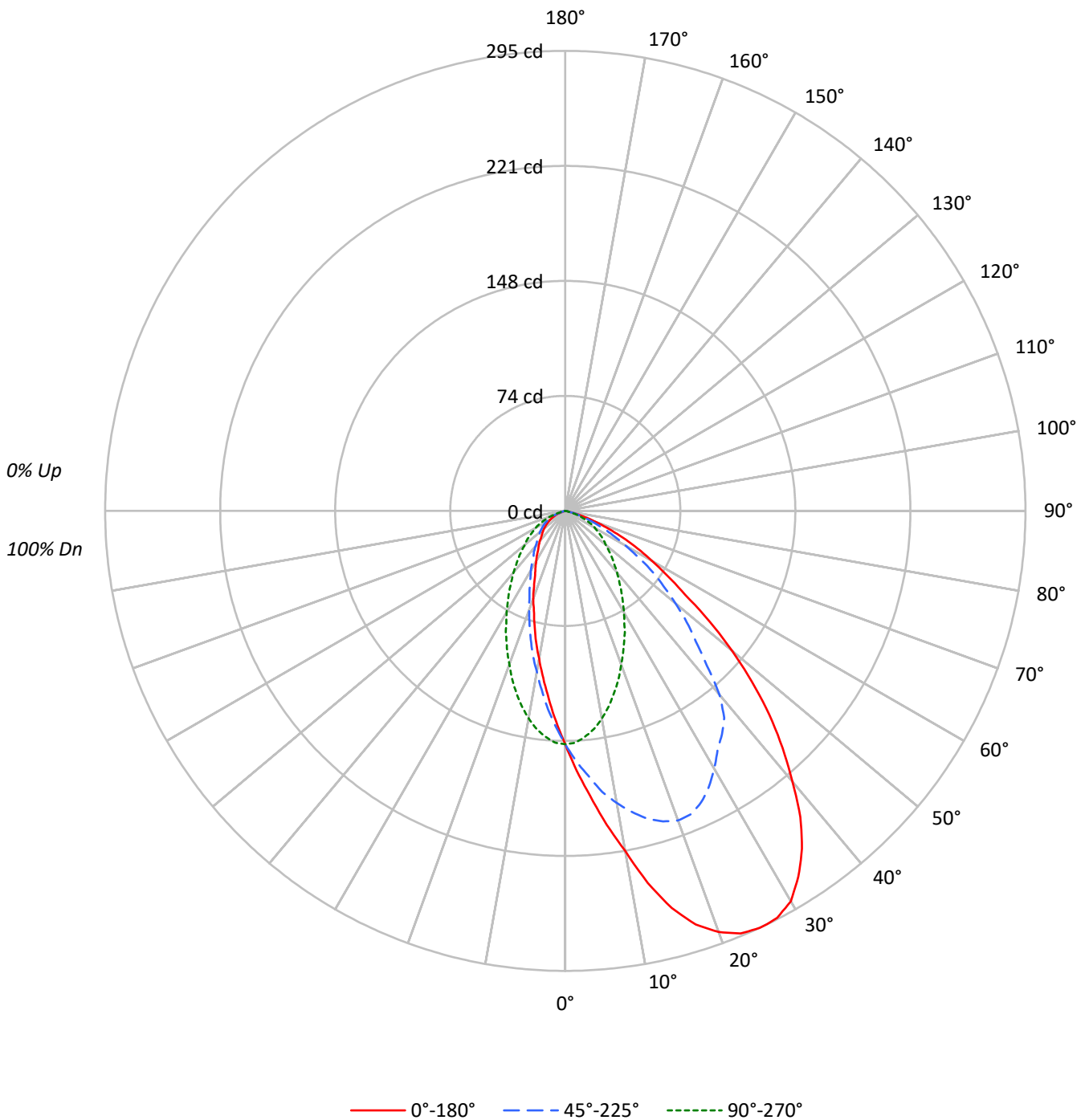
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 298.0 lumens
Efficiency: N/A
Efficacy: 22.7 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.85 / 1.23
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 13.1
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			0	
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	91	91	91	89
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	80	80	80	78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	70	70	70	68
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	62	62	62	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	55	55	55	53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	49	49	49	47
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	44	44	44	43
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	40	40	40	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	37	37	37	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	34	34	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	32804	32804	32804	32804	32804
5°	40370	37574	32005	28087	26612
10°	49298	42351	30104	23335	21465
15°	59864	46425	27446	19387	17276
20°	67066	49308	24455	15775	14001
25°	71375	49890	21679	13089	11033
30°	73201	48362	19041	11141	9419
35°	70805	46846	16731	9503	8138
40°	64836	44025	14771	8473	7271
45°	57401	36686	13118	7877	6543
50°	47589	31419	11531	7198	6038
55°	35860	26188	10666	6767	5505
60°	28156	19648	9648	6315	4824
65°	21066	14476	8354	5241	3943
70°	13528	9232	5963	3783	2180
75°	5761	4999	2881	1440	678
80°	1010	1010	0	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 57401 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.2	4.8
10°-20°	40.8	13.7
20°-30°	59.7	20.0
30°-40°	65.1	21.8
40°-50°	56.3	18.9
50°-60°	37.7	12.7
60°-70°	19.5	6.5
70°-80°	4.6	1.5
80°-90°	0.0	0.0
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°	114.8	38.5
0°-40°	179.8	60.3
0°-60°	273.9	91.9
0°-90°	298.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	298.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	150	150	150	150	150	
5°	183	171	145	128	121	19
15°	264	204	121	85	76	75
25°	295	206	90	54	46	136
35°	264	175	62	36	30	164
45°	185	118	42	25	21	142
55°	94	68	28	18	14	87
65°	41	28	16	10	8	41
75°	7	6	3	2	1	9
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P#
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	149.6	149.6	149.6	149.6	149.6	149.6	149.6	149.6	149.6	149.6	149.6
2.5°	166.5	165.7	165.7	164.0	162.3	160.6	158.1	155.5	153.0	150.4	148.8
5°	183.4	184.3	183.4	180.0	175.8	170.7	165.7	159.7	153.8	148.8	145.4
7.5°	202.8	202.8	200.3	196.1	190.2	181.7	173.3	163.1	153.8	145.4	141.1
10°	221.4	221.4	217.2	210.5	201.2	190.2	178.3	164.8	152.1	140.3	135.2
12.5°	244.3	243.4	238.3	227.4	213.8	197.8	181.7	164.8	149.6	135.2	128.5
15°	263.7	262.9	256.1	242.6	224.8	204.5	182.6	163.1	144.5	128.5	120.9
17.5°	278.1	276.4	268.8	254.4	234.1	208.8	183.4	159.7	138.6	120.9	113.3
20°	287.4	286.5	278.1	261.2	239.2	211.3	182.6	155.5	132.7	113.3	104.8
22.5°	293.3	291.6	283.1	264.5	239.2	210.5	179.2	149.6	125.1	105.7	97.2
25°	295.0	294.1	284.0	263.7	236.7	206.2	174.1	143.7	117.5	98.0	89.6
26°	295.0	294.1	284.0	262.9	235.0	203.7	171.6	141.1	114.9	94.7	87.1
27.5°	294.1	293.3	282.3	260.3	231.6	199.5	166.5	136.1	109.9	90.4	82.0
30°	289.1	287.4	276.4	254.4	224.0	191.0	158.1	128.5	102.3	82.8	75.2
32.5°	278.1	276.4	264.5	244.3	215.5	181.7	148.8	120.0	94.7	75.2	68.5
35°	264.5	262.9	251.0	231.6	203.7	175.0	138.6	110.7	86.2	69.3	62.5
37.5°	247.6	245.1	235.0	214.7	189.3	167.4	130.2	101.4	78.6	62.5	56.6
40°	226.5	225.7	216.4	197.8	172.4	153.8	125.1	101.4	71.8	56.6	51.6
42.5°	206.2	204.5	196.1	180.0	157.2	134.4	109.9	97.2	66.8	50.7	46.5
45°	185.1	183.4	175.8	162.3	141.1	118.3	118.3	83.7	57.5	46.5	42.3
47.5°	162.3	160.6	154.7	144.5	125.9	105.7	86.2	68.5	52.4	41.4	38.0
50°	139.5	140.3	135.2	125.1	110.7	92.1	74.4	57.5	44.8	37.2	33.8
52.5°	116.6	115.8	112.4	105.7	95.5	79.4	63.4	49.0	38.9	33.0	31.3
55°	93.8	94.7	93.0	88.7	80.3	68.5	53.2	42.3	34.7	29.6	27.9
57.5°	77.8	78.6	75.2	72.7	65.9	55.8	44.0	35.5	29.6	26.2	24.5
60°	64.2	65.1	62.5	59.2	54.1	44.8	35.5	29.6	26.2	23.7	22.0
62.5°	52.4	51.6	49.9	46.5	42.3	35.5	28.7	24.5	22.0	20.3	19.4
65°	40.6	40.6	38.9	36.3	33.0	27.9	22.8	20.3	18.6	16.9	16.1
67.5°	30.4	30.4	28.7	27.0	23.7	20.3	17.7	16.1	15.2	13.5	12.7
70°	21.1	21.1	20.3	19.4	16.9	14.4	13.5	11.8	11.0	10.1	9.3
72.5°	13.5	13.5	13.5	11.8	11.0	9.3	9.3	8.5	7.6	6.8	6.8
75°	6.8	7.6	6.8	6.8	5.9	5.9	5.1	5.1	4.2	4.2	3.4
77.5°	2.5	2.5	2.5	2.5	2.5	2.5	1.7	1.7	1.7	1.7	1.7
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	149.6	149.6	149.6	149.6	149.6	149.6	149.6	149.6	149.6	149.6
2.5°	147.1	144.5	142.8	140.3	138.6	136.9	136.1	135.2	135.2	135.2
5°	142.8	138.6	134.4	130.2	127.6	125.1	122.6	121.7	120.9	120.9
7.5°	137.8	131.0	125.1	120.0	115.8	113.3	110.7	109.0	108.2	108.2
10°	131.0	122.6	115.8	109.0	104.8	101.4	99.7	97.2	97.2	96.4
12.5°	123.4	113.3	105.7	99.7	95.5	91.3	88.7	87.1	86.2	86.2
15°	114.9	104.8	96.4	89.6	85.4	81.1	78.6	76.9	76.1	76.1
17.5°	106.5	95.5	87.1	80.3	76.1	71.8	69.3	67.6	67.6	66.8
20°	98.0	87.1	78.6	71.8	67.6	64.2	61.7	60.0	59.2	60.0
22.5°	90.4	79.4	71.0	65.1	60.0	56.6	54.1	53.2	52.4	52.4
25°	82.0	71.8	64.2	58.3	54.1	50.7	48.2	47.3	46.5	45.6
26°	79.4	69.3	61.7	55.8	51.6	48.2	46.5	44.8	44.0	44.0
27.5°	76.1	65.1	58.3	52.4	48.2	45.6	43.1	42.3	41.4	41.4
30°	68.5	59.2	52.4	47.3	44.0	40.6	38.9	38.0	37.2	37.2
32.5°	62.5	53.2	47.3	43.1	39.7	37.2	35.5	33.8	33.8	33.8
35°	56.6	48.2	43.1	38.9	35.5	33.0	32.1	31.3	30.4	30.4
37.5°	51.6	44.0	38.9	35.5	33.0	30.4	28.7	27.9	27.9	27.9
40°	46.5	40.6	35.5	32.1	29.6	27.9	26.2	25.4	25.4	25.4
42.5°	42.3	36.3	33.0	29.6	27.0	25.4	24.5	23.7	22.8	22.8
45°	38.9	33.8	29.6	27.0	25.4	23.7	22.0	21.1	21.1	21.1
47.5°	34.7	31.3	27.0	24.5	22.8	21.1	20.3	19.4	19.4	19.4
50°	32.1	28.7	25.4	22.8	21.1	19.4	18.6	17.7	17.7	17.7
52.5°	28.7	26.2	23.7	21.1	19.4	17.7	16.9	16.1	16.1	16.1
55°	26.2	23.7	21.1	19.4	17.7	16.1	15.2	14.4	14.4	14.4
57.5°	23.7	21.1	19.4	17.7	16.1	15.2	13.5	13.5	12.7	12.7
60°	21.1	18.6	16.9	16.1	14.4	13.5	11.8	11.0	11.0	11.0
62.5°	17.7	16.9	15.2	13.5	11.8	11.0	10.1	9.3	9.3	9.3
65°	15.2	14.4	12.7	11.0	10.1	9.3	8.5	7.6	7.6	7.6
67.5°	12.7	11.0	10.1	9.3	8.5	7.6	6.8	5.9	5.1	5.9
70°	9.3	8.5	7.6	6.8	5.9	5.1	4.2	4.2	3.4	3.4
72.5°	5.9	5.1	5.1	4.2	3.4	3.4	2.5	2.5	1.7	1.7
75°	3.4	3.4	2.5	2.5	1.7	1.7	0.8	0.8	0.8	0.8
77.5°	1.7	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)