

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: P3ART13R70B2750DE010 E3LCWW1GPH_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 (G1-2509-551-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3ART13R70B2750DE010 E3LCWW1GPH_2700K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R70 optic, 2700K CCT AND, 90CRI , E3LCWW1GPH TRIM
Light Source: -
Ballast/Driver: -

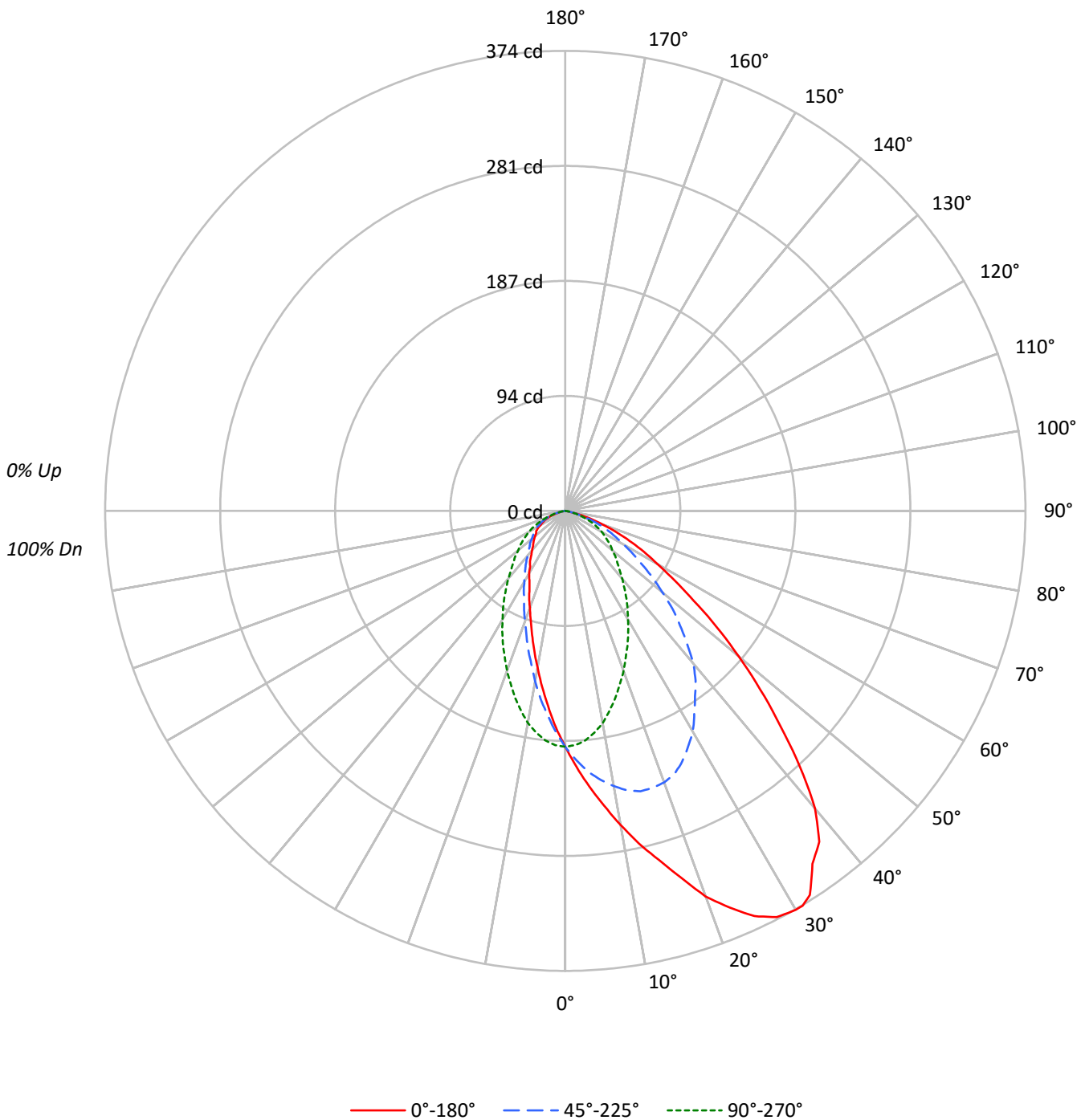
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 390.0 lumens
Efficiency: N/A
Efficacy: 20.4 lumens/watt
Spacing Criteria (0/90/45): 1.54 / 0.87 / 1.18
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 19.1
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	90	88	
2	102	95	90	85	100	93	88	84	90	86	82	87	83	80	84	81	78	78	76	
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	68	66	
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	60	58	
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	53	51	
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	47	46	
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	43	41	
8	65	53	45	39	64	52	45	39	51	44	39	50	43	39	48	43	39	39	37	
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	35	34	
10	57	45	38	33	56	45	37	33	44	37	33	43	37	32	42	36	32	32	31	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	42036	42036	42036	42036	42036
5°	49505	46841	41228	36584	35131
10°	57737	50589	38988	31329	28857
15°	66652	53576	35732	26425	23655
20°	77823	54815	32319	22239	19648
25°	87949	54414	28961	19041	16622
30°	94825	52464	25801	16838	14863
35°	93746	49229	23129	15125	13358
40°	90398	46315	20610	13626	12051
45°	76628	40903	18545	12714	11350
50°	62736	35172	17023	12110	10951
55°	48706	29246	16095	11851	11010
60°	37892	24296	15087	11666	10218
65°	29886	20132	13231	10948	9755
70°	20580	14938	10643	9232	8527
75°	10336	8472	7540	6608	5592
80°	1389	2778	4167	2778	1389
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 76628 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.9	4.6
10°-20°	49.9	12.8
20°-30°	73.6	18.9
30°-40°	82.5	21.2
40°-50°	72.5	18.6
50°-60°	51.9	13.3
60°-70°	30.7	7.9
70°-80°	10.3	2.6
80°-90°	0.5	0.1
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°	141.5	36.3
0°-40°	224.0	57.4
0°-60°	348.4	89.3
0°-90°	390.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	390.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	192	192	192	192	192	
5°	225	213	187	166	160	22
15°	294	236	157	116	104	85
25°	364	225	120	79	69	167
35°	350	184	86	56	50	220
45°	247	132	60	41	37	191
55°	127	76	42	31	29	116
65°	58	39	26	21	19	58
75°	12	10	9	8	7	15
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°	191.7	191.7	191.7	191.7	191.7	191.7	191.7	191.7	191.7	191.7	191.7
2.5°	208.3	208.3	208.3	206.1	206.1	202.8	200.6	197.2	195.0	191.7	190.6
5°	224.9	224.9	222.7	220.5	217.2	212.8	207.2	201.7	195.0	189.5	187.3
7.5°	241.6	242.7	239.3	234.9	228.3	220.5	212.8	203.9	193.9	186.2	181.7
10°	259.3	259.3	254.9	248.2	238.2	227.2	215.0	202.8	190.6	179.5	175.1
12.5°	277.0	275.9	270.4	260.4	248.2	232.7	216.1	200.6	186.2	172.9	166.2
15°	293.6	293.6	285.9	273.7	256.0	236.0	216.1	196.1	179.5	164.0	157.4
17.5°	312.5	312.5	302.5	283.7	261.5	236.0	212.8	190.6	171.8	155.1	147.4
20°	333.5	332.4	318.0	292.5	263.7	234.9	208.3	183.9	162.9	145.2	138.5
22.5°	349.1	347.9	331.3	300.3	264.8	231.6	200.6	175.1	154.0	136.3	128.5
25°	363.5	361.2	342.4	303.6	262.6	224.9	192.8	165.1	145.2	127.4	119.7
27.5°	372.3	371.2	350.2	302.5	257.1	216.1	182.8	156.2	135.2	117.5	110.8
30°	374.5	375.6	350.2	297.0	248.2	207.2	172.9	146.3	125.2	109.7	101.9
31°	374.5	375.6	347.9	293.6	244.9	202.8	168.4	142.9	120.8	105.3	98.6
32.5°	370.1	367.9	344.6	288.1	237.1	195.0	162.9	137.4	115.2	99.7	94.2
35°	350.2	351.3	333.5	275.9	226.1	183.9	151.8	126.3	105.3	92.0	86.4
37.5°	339.1	339.1	306.9	259.3	213.9	174.0	138.5	114.1	96.4	84.2	78.7
40°	315.8	312.5	282.6	241.6	199.5	161.8	130.8	106.4	88.6	76.5	72.0
42.5°	282.6	279.2	256.0	226.1	180.6	146.3	124.1	94.2	79.8	69.8	65.4
45°	247.1	244.9	227.2	199.5	162.9	131.9	107.5	86.4	73.1	63.2	59.8
47.5°	215.0	211.6	198.3	177.3	147.4	118.6	93.1	77.6	65.4	57.6	55.4
50°	183.9	182.8	171.8	155.1	130.8	103.1	82.0	68.7	59.8	53.2	49.9
52.5°	155.1	152.9	147.4	134.1	114.1	89.8	72.0	60.9	53.2	48.8	46.5
55°	127.4	127.4	121.9	113.0	97.5	76.5	63.2	54.3	47.6	44.3	42.1
57.5°	105.3	105.3	100.8	95.3	80.9	65.4	55.4	47.6	43.2	39.9	37.7
60°	86.4	86.4	83.1	77.6	67.6	55.4	47.6	42.1	38.8	35.5	34.4
62.5°	72.0	70.9	68.7	63.2	55.4	46.5	41.0	36.6	33.2	31.0	29.9
65°	57.6	56.5	54.3	49.9	44.3	38.8	34.4	31.0	28.8	26.6	25.5
67.5°	44.3	44.3	42.1	38.8	34.4	31.0	27.7	25.5	23.3	22.2	21.1
70°	32.1	32.1	31.0	28.8	25.5	23.3	21.1	19.9	18.8	17.7	16.6
72.5°	22.2	22.2	21.1	19.9	17.7	16.6	14.4	14.4	13.3	13.3	12.2
75°	12.2	12.2	12.2	11.1	11.1	10.0	10.0	10.0	8.9	8.9	8.9
77.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
80°	1.1	1.1	1.1	1.1	2.2	2.2	2.2	2.2	3.3	3.3	3.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
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°	191.7	191.7	191.7	191.7	191.7	191.7	191.7	191.7	191.7	191.7
2.5°	189.5	186.2	183.9	182.8	179.5	178.4	177.3	176.2	176.2	176.2
5°	185.1	179.5	174.0	170.6	166.2	164.0	161.8	160.7	159.6	159.6
7.5°	177.3	170.6	164.0	158.5	154.0	149.6	147.4	145.2	145.2	144.1
10°	169.5	160.7	152.9	145.2	140.7	135.2	133.0	130.8	129.6	129.6
12.5°	160.7	149.6	140.7	134.1	127.4	123.0	119.7	117.5	116.4	116.4
15°	150.7	139.6	129.6	123.0	116.4	110.8	107.5	105.3	104.2	104.2
17.5°	140.7	129.6	118.6	111.9	105.3	99.7	97.5	95.3	94.2	93.1
20°	131.9	118.6	109.7	100.8	95.3	90.9	87.5	85.3	84.2	84.2
22.5°	121.9	109.7	99.7	93.1	87.5	83.1	78.7	77.6	76.5	76.5
25°	111.9	100.8	92.0	85.3	78.7	75.4	72.0	69.8	69.8	68.7
27.5°	104.2	93.1	84.2	77.6	73.1	68.7	66.5	64.3	63.2	63.2
30°	95.3	85.3	77.6	72.0	66.5	63.2	60.9	58.7	58.7	58.7
31°	93.1	83.1	75.4	68.7	64.3	60.9	58.7	57.6	56.5	56.5
32.5°	87.5	78.7	70.9	65.4	60.9	57.6	55.4	54.3	54.3	53.2
35°	80.9	72.0	65.4	59.8	56.5	53.2	51.0	49.9	49.9	49.9
37.5°	74.2	66.5	59.8	55.4	52.1	48.8	47.6	45.4	45.4	45.4
40°	67.6	60.9	55.4	51.0	47.6	45.4	44.3	43.2	42.1	42.1
42.5°	62.1	55.4	51.0	47.6	44.3	42.1	41.0	39.9	39.9	38.8
45°	56.5	51.0	47.6	44.3	41.0	39.9	38.8	37.7	36.6	36.6
47.5°	52.1	47.6	43.2	41.0	38.8	36.6	35.5	35.5	34.4	34.4
50°	47.6	43.2	39.9	37.7	35.5	34.4	33.2	33.2	32.1	32.1
52.5°	44.3	39.9	37.7	35.5	33.2	32.1	31.0	31.0	29.9	29.9
55°	39.9	36.6	34.4	33.2	31.0	29.9	28.8	27.7	27.7	28.8
57.5°	36.6	34.4	32.1	31.0	28.8	27.7	26.6	26.6	25.5	26.6
60°	33.2	31.0	28.8	27.7	26.6	25.5	24.4	23.3	23.3	23.3
62.5°	29.9	27.7	26.6	24.4	23.3	23.3	22.2	22.2	22.2	21.1
65°	25.5	24.4	23.3	22.2	21.1	19.9	19.9	18.8	18.8	18.8
67.5°	21.1	19.9	18.8	18.8	17.7	16.6	16.6	16.6	16.6	15.5
70°	16.6	15.5	15.5	14.4	14.4	14.4	13.3	13.3	13.3	13.3
72.5°	12.2	12.2	11.1	11.1	11.1	11.1	10.0	10.0	10.0	10.0
75°	8.9	8.9	8.9	7.8	7.8	7.8	6.6	6.6	6.6	6.6
77.5°	5.5	5.5	5.5	5.5	5.5	4.4	4.4	4.4	4.4	4.4
80°	3.3	3.3	3.3	3.3	2.2	2.2	2.2	2.2	2.2	1.1
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	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)