

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: P1445683

Luminaire Tested: P3ART13R709027DE010 E3LSWW1H

Issue Date: 5/8/2026

**Test Information**

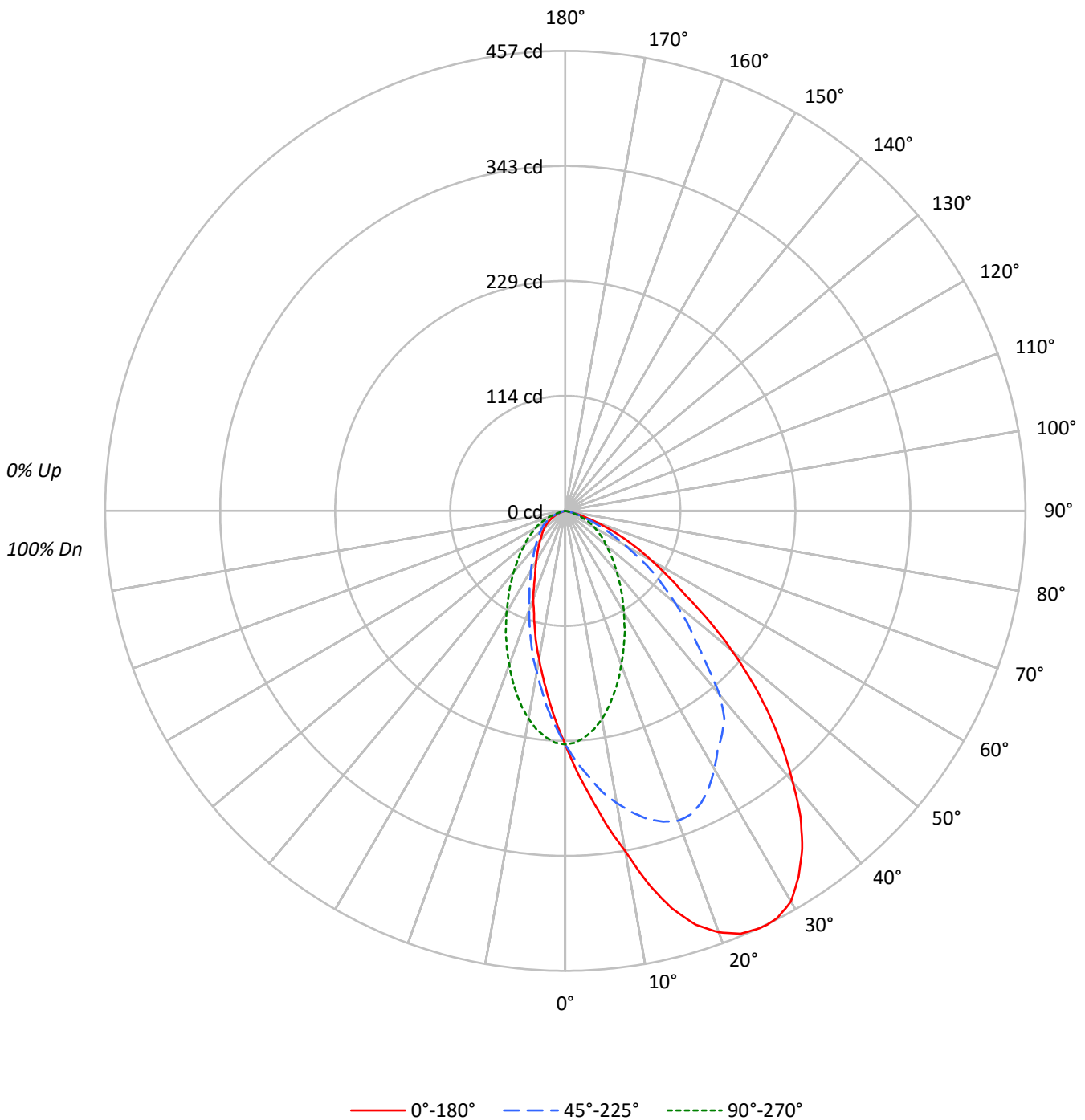
Test Method: LM-79-2019  
Report Number: P1445683  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART13R709027DE010 E3LSWW1H  
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 90CRI , E3LSWW1H TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 462.0 lumens  
Efficiency: N/A  
Efficacy: 31.6 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): 14.6  
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	100	100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89	89	89
2	103	96	91	86	101	95	89	85	91	87	83	88	85	81	85	82	80	78	78	78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68	68	68
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	60	60	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53	53	53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	47	47	47
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43	43	43
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	39	39	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35	35	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32	32	32

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	50851	50851	50851	50851	50851
5°	62580	58265	49615	43561	41250
10°	76440	65641	46693	36183	33266
15°	92804	71987	42543	30034	26765
20°	103959	76447	37920	24455	21702
25°	110643	77351	33607	20300	17130
30°	113460	74974	29524	17243	14610
35°	109781	72598	25966	14723	12635
40°	100531	68271	22871	13139	11250
45°	89001	56874	20312	12187	10172
50°	73755	48715	17876	11189	9381
55°	55587	40562	16516	10513	8525
60°	43681	30436	14955	9780	7456
65°	32636	22415	12920	8146	6123
70°	21029	14297	9232	5898	3334
75°	8896	7795	4406	2203	1101
80°	1642	1642	0	0	0
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 89001 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.0	4.8
10°-20°	63.3	13.7
20°-30°	92.6	20.0
30°-40°	100.9	21.8
40°-50°	87.3	18.9
50°-60°	58.5	12.7
60°-70°	30.2	6.5
70°-80°	7.1	1.5
80°-90°	0.1	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°	177.9	38.5
0°-40°	278.8	60.3
0°-60°	424.6	91.9
0°-90°	462.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	462.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	232	232	232	232	232	
5°	284	265	225	198	187	29
15°	409	317	187	132	118	116
25°	457	320	139	84	71	210
35°	410	271	97	55	47	254
45°	287	183	66	39	33	220
55°	145	106	43	28	22	135
65°	63	43	25	16	12	63
75°	10	9	5	3	1	14
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	231.9	231.9	231.9	231.9	231.9	231.9	231.9	231.9	231.9	231.9	231.9
2.5°	258.1	256.8	256.8	254.2	251.6	249.0	245.0	241.1	237.2	233.2	230.6
5°	284.3	285.7	284.3	279.1	272.6	264.7	256.8	247.7	238.5	230.6	225.4
7.5°	314.5	314.5	310.6	304.0	294.8	281.7	268.6	252.9	238.5	225.4	218.8
10°	343.3	343.3	336.8	326.3	311.9	294.8	276.5	255.5	235.9	217.5	209.7
12.5°	378.7	377.4	369.5	352.5	331.5	306.6	281.7	255.5	231.9	209.7	199.2
15°	408.8	407.5	397.0	376.1	348.6	317.1	283.0	252.9	224.1	199.2	187.4
17.5°	431.1	428.5	416.7	394.4	363.0	323.7	284.3	247.7	214.9	187.4	175.6
20°	445.5	444.2	431.1	404.9	370.8	327.6	283.0	241.1	205.7	175.6	162.5
22.5°	454.7	452.1	439.0	410.1	370.8	326.3	277.8	231.9	193.9	163.8	150.7
25°	457.3	456.0	440.3	408.8	366.9	319.7	269.9	222.8	182.1	152.0	138.9
26°	457.3	456.0	440.3	407.5	364.3	315.8	266.0	218.8	178.2	146.8	135.0
27.5°	456.0	454.7	437.7	403.6	359.0	309.2	258.1	211.0	170.3	140.2	127.1
30°	448.1	445.5	428.5	394.4	347.2	296.1	245.0	199.2	158.6	128.4	116.6
32.5°	431.1	428.5	410.1	378.7	334.1	281.7	230.6	186.1	146.8	116.6	106.1
35°	410.1	407.5	389.2	359.0	315.8	271.2	214.9	171.7	133.7	107.4	97.0
37.5°	383.9	380.0	364.3	332.8	293.5	259.4	201.8	157.2	121.9	97.0	87.8
40°	351.2	349.9	335.5	306.6	267.3	238.5	193.9	157.2	111.4	87.8	79.9
42.5°	319.7	317.1	304.0	279.1	243.7	208.3	170.3	150.7	103.5	78.6	72.1
45°	287.0	284.3	272.6	251.6	218.8	183.4	183.4	129.7	89.1	72.1	65.5
47.5°	251.6	249.0	239.8	224.1	195.2	163.8	133.7	106.1	81.2	64.2	59.0
50°	216.2	217.5	209.7	193.9	171.7	142.8	115.3	89.1	69.4	57.7	52.4
52.5°	180.8	179.5	174.3	163.8	148.1	123.2	98.3	76.0	60.3	51.1	48.5
55°	145.4	146.8	144.1	137.6	124.5	106.1	82.6	65.5	53.7	45.9	43.2
57.5°	120.6	121.9	116.6	112.7	102.2	86.5	68.1	55.0	45.9	40.6	38.0
60°	99.6	100.9	97.0	91.7	83.9	69.4	55.0	45.9	40.6	36.7	34.1
62.5°	81.2	79.9	77.3	72.1	65.5	55.0	44.6	38.0	34.1	31.4	30.1
65°	62.9	62.9	60.3	56.3	51.1	43.2	35.4	31.4	28.8	26.2	24.9
67.5°	47.2	47.2	44.6	41.9	36.7	31.4	27.5	24.9	23.6	21.0	19.7
70°	32.8	32.8	31.4	30.1	26.2	22.3	21.0	18.3	17.0	15.7	14.4
72.5°	21.0	21.0	21.0	18.3	17.0	14.4	14.4	13.1	11.8	10.5	10.5
75°	10.5	11.8	10.5	10.5	9.2	9.2	7.9	7.9	6.6	6.6	5.2
77.5°	3.9	3.9	3.9	3.9	3.9	3.9	2.6	2.6	2.6	2.6	2.6
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	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°	231.9	231.9	231.9	231.9	231.9	231.9	231.9	231.9	231.9	231.9
2.5°	228.0	224.1	221.4	217.5	214.9	212.3	211.0	209.7	209.7	209.7
5°	221.4	214.9	208.3	201.8	197.9	193.9	190.0	188.7	187.4	187.4
7.5°	213.6	203.1	193.9	186.1	179.5	175.6	171.7	169.0	167.7	167.7
10°	203.1	190.0	179.5	169.0	162.5	157.2	154.6	150.7	150.7	149.4
12.5°	191.3	175.6	163.8	154.6	148.1	141.5	137.6	135.0	133.7	133.7
15°	178.2	162.5	149.4	138.9	132.3	125.8	121.9	119.2	117.9	117.9
17.5°	165.1	148.1	135.0	124.5	117.9	111.4	107.4	104.8	104.8	103.5
20°	152.0	135.0	121.9	111.4	104.8	99.6	95.7	93.0	91.7	93.0
22.5°	140.2	123.2	110.1	100.9	93.0	87.8	83.9	82.6	81.2	81.2
25°	127.1	111.4	99.6	90.4	83.9	78.6	74.7	73.4	72.1	70.8
26°	123.2	107.4	95.7	86.5	79.9	74.7	72.1	69.4	68.1	68.1
27.5°	117.9	100.9	90.4	81.2	74.7	70.8	66.8	65.5	64.2	64.2
30°	106.1	91.7	81.2	73.4	68.1	62.9	60.3	59.0	57.7	57.7
32.5°	97.0	82.6	73.4	66.8	61.6	57.7	55.0	52.4	52.4	52.4
35°	87.8	74.7	66.8	60.3	55.0	51.1	49.8	48.5	47.2	47.2
37.5°	79.9	68.1	60.3	55.0	51.1	47.2	44.6	43.2	43.2	43.2
40°	72.1	62.9	55.0	49.8	45.9	43.2	40.6	39.3	39.3	39.3
42.5°	65.5	56.3	51.1	45.9	41.9	39.3	38.0	36.7	35.4	35.4
45°	60.3	52.4	45.9	41.9	39.3	36.7	34.1	32.8	32.8	32.8
47.5°	53.7	48.5	41.9	38.0	35.4	32.8	31.4	30.1	30.1	30.1
50°	49.8	44.6	39.3	35.4	32.8	30.1	28.8	27.5	27.5	27.5
52.5°	44.6	40.6	36.7	32.8	30.1	27.5	26.2	24.9	24.9	24.9
55°	40.6	36.7	32.8	30.1	27.5	24.9	23.6	22.3	22.3	22.3
57.5°	36.7	32.8	30.1	27.5	24.9	23.6	21.0	21.0	19.7	19.7
60°	32.8	28.8	26.2	24.9	22.3	21.0	18.3	17.0	17.0	17.0
62.5°	27.5	26.2	23.6	21.0	18.3	17.0	15.7	14.4	14.4	14.4
65°	23.6	22.3	19.7	17.0	15.7	14.4	13.1	11.8	11.8	11.8
67.5°	19.7	17.0	15.7	14.4	13.1	11.8	10.5	9.2	7.9	9.2
70°	14.4	13.1	11.8	10.5	9.2	7.9	6.6	6.6	5.2	5.2
72.5°	9.2	7.9	7.9	6.6	5.2	5.2	3.9	3.9	2.6	2.6
75°	5.2	5.2	3.9	3.9	2.6	2.6	1.3	1.3	1.3	1.3
77.5°	2.6	1.3	1.3	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)