

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: P1446057

Luminaire Tested: P3ART13R709040DE010 E3CLSWW1MW

Issue Date: 5/8/2026

**Test Information**

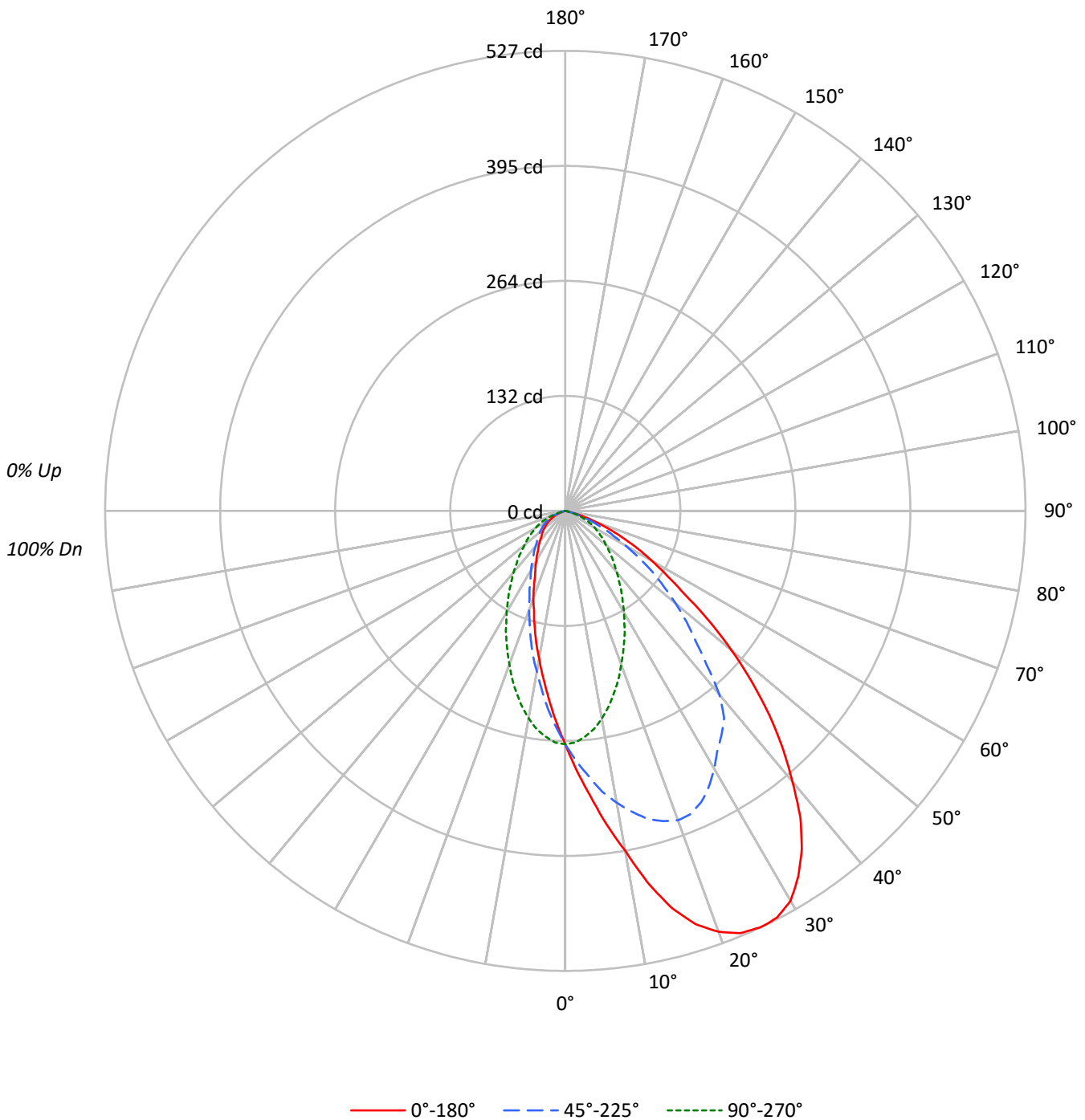
Test Method: LM-79-2019  
Report Number: P1446057  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART13R709040DE010 E3CLSWW1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 90CRI , E3CLSWW1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 532.0 lumens  
Efficiency: N/A  
Efficacy: 36.4 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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CATALOG NUMBER: P3ART13R709040DE010 E3CLSWW1MW

### 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	89	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°	58570	58570	58570	58570	58570
5°	72067	67092	57121	50143	47502
10°	88019	75594	53751	41660	38298
15°	106879	82906	48990	34597	30829
20°	119710	88021	43660	28166	24992
25°	127411	89086	38688	23372	19719
30°	130653	86342	34005	19876	16813
35°	126431	83600	29901	16972	14536
40°	115760	78604	26335	15114	12967
45°	102460	65495	23382	14048	11691
50°	84944	56118	20605	12861	10814
55°	64036	46718	19039	12119	9825
60°	50303	35085	17192	11271	8596
65°	37566	25839	14891	9391	7057
70°	24171	16477	10643	6796	3847
75°	10252	8981	5083	2542	1271
80°	1894	1894	0	0	0
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 102460 cd/sqm



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CATALOG NUMBER: P3ART13R709040DE010 E3CLSWW1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.3	4.8
10°-20°	72.9	13.7
20°-30°	106.6	20.0
30°-40°	116.2	21.8
40°-50°	100.5	18.9
50°-60°	67.3	12.7
60°-70°	34.8	6.5
70°-80°	8.2	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°	204.9	38.5
0°-40°	321.0	60.3
0°-60°	488.9	91.9
0°-90°	532.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	532.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	267	267	267	267	267	
5°	327	305	260	228	216	33
15°	471	365	216	152	136	133
25°	527	368	160	97	82	242
35°	472	312	112	63	54	292
45°	330	211	75	45	38	253
55°	168	122	50	32	26	155
65°	72	50	29	18	14	73
75°	12	11	6	3	2	16
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P1446057

CATALOG NUMBER: P3ART13R709040DE010 E3CLSWW1MW

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	267.1	267.1	267.1	267.1	267.1	267.1	267.1	267.1	267.1	267.1	267.1
2.5°	297.3	295.7	295.7	292.7	289.7	286.7	282.2	277.6	273.1	268.6	265.6
5°	327.4	328.9	327.4	321.4	313.8	304.8	295.7	285.2	274.6	265.6	259.5
7.5°	362.1	362.1	357.6	350.1	339.5	324.4	309.3	291.2	274.6	259.5	252.0
10°	395.3	395.3	387.8	375.7	359.1	339.5	318.4	294.2	271.6	250.5	241.4
12.5°	436.1	434.6	425.5	405.9	381.7	353.1	324.4	294.2	267.1	241.4	229.4
15°	470.8	469.3	457.2	433.1	401.4	365.2	325.9	291.2	258.0	229.4	215.8
17.5°	496.4	493.4	479.8	454.2	418.0	372.7	327.4	285.2	247.5	215.8	202.2
20°	513.0	511.5	496.4	466.2	427.0	377.2	325.9	277.6	236.9	202.2	187.1
22.5°	523.6	520.6	505.5	472.3	427.0	375.7	319.9	267.1	223.3	188.6	173.5
25°	526.6	525.1	507.0	470.8	422.5	368.2	310.8	256.5	209.7	175.0	159.9
26°	526.6	525.1	507.0	469.3	419.5	363.6	306.3	252.0	205.2	169.0	155.4
27.5°	525.1	523.6	504.0	464.7	413.4	356.1	297.3	242.9	196.2	161.5	146.4
30°	516.0	513.0	493.4	454.2	399.9	341.0	282.2	229.4	182.6	147.9	134.3
32.5°	496.4	493.4	472.3	436.1	384.8	324.4	265.6	214.3	169.0	134.3	122.2
35°	472.3	469.3	448.1	413.4	363.6	312.3	247.5	197.7	153.9	123.7	111.7
37.5°	442.1	437.6	419.5	383.3	338.0	298.8	232.4	181.1	140.3	111.7	101.1
40°	404.4	402.9	386.3	353.1	307.8	274.6	223.3	181.1	128.3	101.1	92.0
42.5°	368.2	365.2	350.1	321.4	280.7	239.9	196.2	173.5	119.2	90.5	83.0
45°	330.4	327.4	313.8	289.7	252.0	211.2	211.2	149.4	102.6	83.0	75.4
47.5°	289.7	286.7	276.1	258.0	224.8	188.6	153.9	122.2	93.6	73.9	67.9
50°	249.0	250.5	241.4	223.3	197.7	164.5	132.8	102.6	80.0	66.4	60.4
52.5°	208.2	206.7	200.7	188.6	170.5	141.8	113.2	87.5	69.4	58.8	55.8
55°	167.5	169.0	166.0	158.4	143.3	122.2	95.1	75.4	61.9	52.8	49.8
57.5°	138.8	140.3	134.3	129.8	117.7	99.6	78.5	63.4	52.8	46.8	43.8
60°	114.7	116.2	111.7	105.6	96.6	80.0	63.4	52.8	46.8	42.2	39.2
62.5°	93.6	92.0	89.0	83.0	75.4	63.4	51.3	43.8	39.2	36.2	34.7
65°	72.4	72.4	69.4	64.9	58.8	49.8	40.7	36.2	33.2	30.2	28.7
67.5°	54.3	54.3	51.3	48.3	42.2	36.2	31.7	28.7	27.2	24.1	22.6
70°	37.7	37.7	36.2	34.7	30.2	25.7	24.1	21.1	19.6	18.1	16.6
72.5°	24.1	24.1	24.1	21.1	19.6	16.6	16.6	15.1	13.6	12.1	12.1
75°	12.1	13.6	12.1	12.1	10.6	10.6	9.1	9.1	7.5	7.5	6.0
77.5°	4.5	4.5	4.5	4.5	4.5	4.5	3.0	3.0	3.0	3.0	3.0
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	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



TEST NUMBER: P1446057

CATALOG NUMBER: P3ART13R709040DE010 E3CLSWW1MW

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	267.1	267.1	267.1	267.1	267.1	267.1	267.1	267.1	267.1	267.1
2.5°	262.5	258.0	255.0	250.5	247.5	244.4	242.9	241.4	241.4	241.4
5°	255.0	247.5	239.9	232.4	227.8	223.3	218.8	217.3	215.8	215.8
7.5°	245.9	233.9	223.3	214.3	206.7	202.2	197.7	194.6	193.1	193.1
10°	233.9	218.8	206.7	194.6	187.1	181.1	178.0	173.5	173.5	172.0
12.5°	220.3	202.2	188.6	178.0	170.5	163.0	158.4	155.4	153.9	153.9
15°	205.2	187.1	172.0	159.9	152.4	144.9	140.3	137.3	135.8	135.8
17.5°	190.1	170.5	155.4	143.3	135.8	128.3	123.7	120.7	120.7	119.2
20°	175.0	155.4	140.3	128.3	120.7	114.7	110.1	107.1	105.6	107.1
22.5°	161.5	141.8	126.7	116.2	107.1	101.1	96.6	95.1	93.6	93.6
25°	146.4	128.3	114.7	104.1	96.6	90.5	86.0	84.5	83.0	81.5
26°	141.8	123.7	110.1	99.6	92.0	86.0	83.0	80.0	78.5	78.5
27.5°	135.8	116.2	104.1	93.6	86.0	81.5	77.0	75.4	73.9	73.9
30°	122.2	105.6	93.6	84.5	78.5	72.4	69.4	67.9	66.4	66.4
32.5°	111.7	95.1	84.5	77.0	70.9	66.4	63.4	60.4	60.4	60.4
35°	101.1	86.0	77.0	69.4	63.4	58.8	57.3	55.8	54.3	54.3
37.5°	92.0	78.5	69.4	63.4	58.8	54.3	51.3	49.8	49.8	49.8
40°	83.0	72.4	63.4	57.3	52.8	49.8	46.8	45.3	45.3	45.3
42.5°	75.4	64.9	58.8	52.8	48.3	45.3	43.8	42.2	40.7	40.7
45°	69.4	60.4	52.8	48.3	45.3	42.2	39.2	37.7	37.7	37.7
47.5°	61.9	55.8	48.3	43.8	40.7	37.7	36.2	34.7	34.7	34.7
50°	57.3	51.3	45.3	40.7	37.7	34.7	33.2	31.7	31.7	31.7
52.5°	51.3	46.8	42.2	37.7	34.7	31.7	30.2	28.7	28.7	28.7
55°	46.8	42.2	37.7	34.7	31.7	28.7	27.2	25.7	25.7	25.7
57.5°	42.2	37.7	34.7	31.7	28.7	27.2	24.1	24.1	22.6	22.6
60°	37.7	33.2	30.2	28.7	25.7	24.1	21.1	19.6	19.6	19.6
62.5°	31.7	30.2	27.2	24.1	21.1	19.6	18.1	16.6	16.6	16.6
65°	27.2	25.7	22.6	19.6	18.1	16.6	15.1	13.6	13.6	13.6
67.5°	22.6	19.6	18.1	16.6	15.1	13.6	12.1	10.6	9.1	10.6
70°	16.6	15.1	13.6	12.1	10.6	9.1	7.5	7.5	6.0	6.0
72.5°	10.6	9.1	9.1	7.5	6.0	6.0	4.5	4.5	3.0	3.0
75°	6.0	6.0	4.5	4.5	3.0	3.0	1.5	1.5	1.5	1.5
77.5°	3.0	1.5	1.5	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)