

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: P3ART13R709030D2WDE010 E3CLSWW1MW

Issue Date: 5/8/2026

**Test Information**

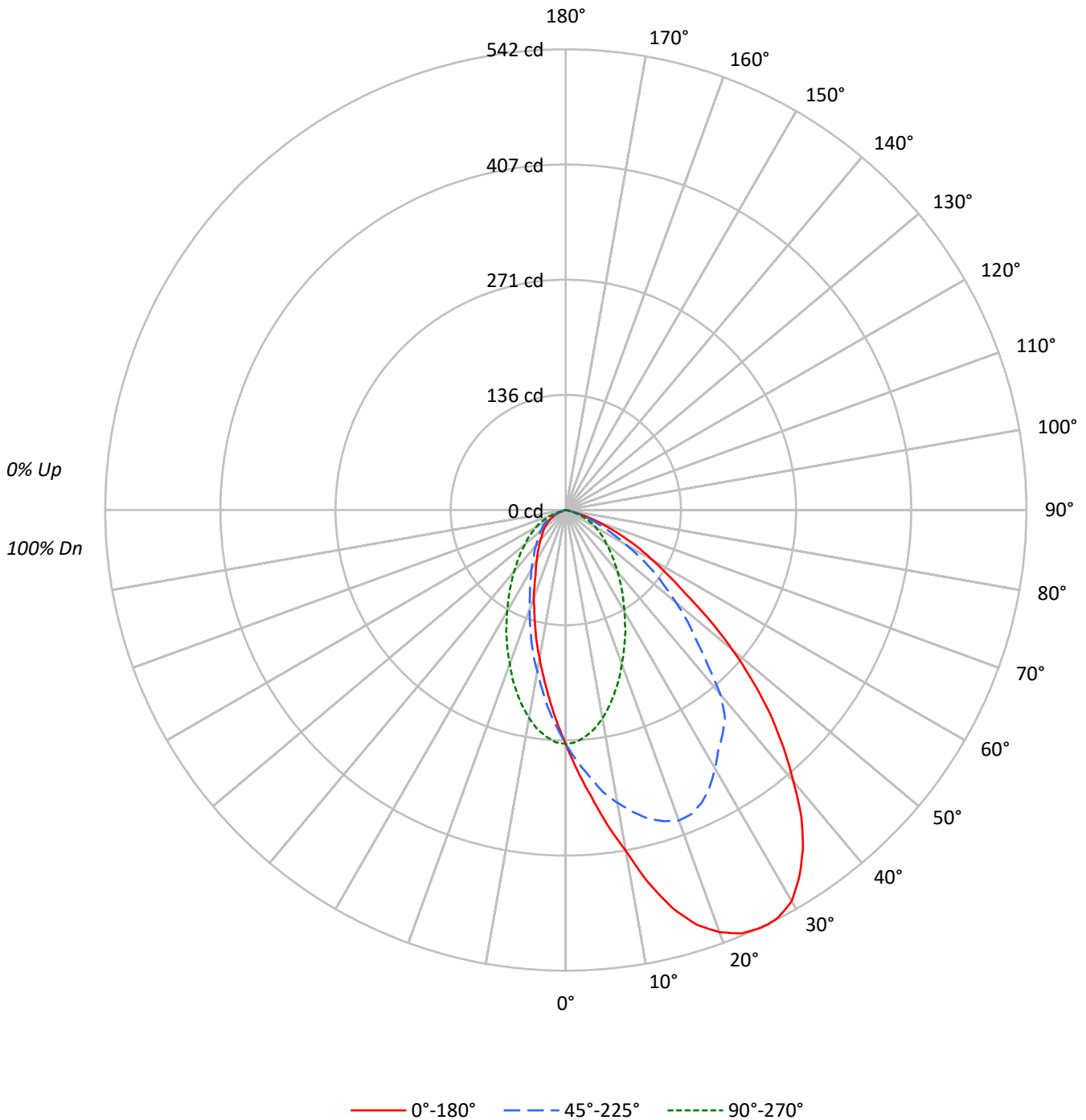
Test Method: LM-79-2019  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART13R709030D2WDE010 E3CLSWW1MW  
Description: 3in Adjustable Dim to Warm LED luminaire with, R70 optic, 3000K CCT AND, 90CRI ,  
E3CLSWW1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 548.0 lumens  
Efficiency: N/A  
Efficacy: 27.3 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): 20.1  
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	102	100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	91	91	89
2	103	96	91	86	101	95	89	85	91	87	83	88	85	81	85	82	80	80	80	78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	70	70	68
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	62	62	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	55	55	53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	49	49	47
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	44	44	43
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	40	40	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	37	37	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	34	34	32

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

	0°	45°	90°	135°	180°
0°	60324	60324	60324	60324	60324
5°	74246	69117	58838	51662	48932
10°	90669	77865	55376	42907	39456
15°	110080	85381	50466	35642	31760
20°	123327	90681	44967	29006	25762
25°	131233	91747	39873	24074	20300
30°	134603	88950	35018	20459	17319
35°	130232	86117	30785	17480	14991
40°	119223	80980	27137	15572	13339
45°	105561	67480	24096	14451	12063
50°	87502	57789	21219	13270	11121
55°	65947	48132	19612	12463	10093
60°	51794	36137	17718	11578	8859
65°	38707	26618	15306	9703	7264
70°	24940	16926	10963	6988	3975
75°	10506	9235	5253	2626	1356
80°	2020	2020	0	0	0
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 105561 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.1	4.8
10°-20°	75.1	13.7
20°-30°	109.8	20.0
30°-40°	119.7	21.8
40°-50°	103.6	18.9
50°-60°	69.4	12.7
60°-70°	35.8	6.5
70°-80°	8.5	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°	211.0	38.5
0°-40°	330.7	60.3
0°-60°	503.6	91.9
0°-90°	548.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	548.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	275	275	275	275	275	
5°	337	314	267	235	222	34
15°	485	376	222	157	140	137
25°	542	379	165	100	84	249
35°	486	322	115	65	56	301
45°	340	218	78	47	39	261
55°	172	126	51	33	26	160
65°	75	51	30	19	14	75
75°	12	11	6	3	2	16
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°	275.1	275.1	275.1	275.1	275.1	275.1	275.1	275.1	275.1	275.1	275.1
2.5°	306.2	304.6	304.6	301.5	298.4	295.3	290.6	286.0	281.3	276.7	273.6
5°	337.3	338.8	337.3	331.1	323.3	314.0	304.6	293.8	282.9	273.6	267.3
7.5°	373.0	373.0	368.4	360.6	349.7	334.2	318.6	300.0	282.9	267.3	259.6
10°	407.2	407.2	399.4	387.0	369.9	349.7	328.0	303.1	279.8	258.0	248.7
12.5°	449.2	447.6	438.3	418.1	393.2	363.7	334.2	303.1	275.1	248.7	236.2
15°	484.9	483.4	470.9	446.1	413.4	376.1	335.7	300.0	265.8	236.2	222.3
17.5°	511.4	508.2	494.3	467.8	430.5	383.9	337.3	293.8	254.9	222.3	208.3
20°	528.5	526.9	511.4	480.3	439.9	388.6	335.7	286.0	244.0	208.3	192.7
22.5°	539.3	536.2	520.7	486.5	439.9	387.0	329.5	275.1	230.0	194.3	178.7
25°	542.4	540.9	522.2	484.9	435.2	379.2	320.2	264.2	216.0	180.3	164.8
26°	542.4	540.9	522.2	483.4	432.1	374.6	315.5	259.6	211.4	174.1	160.1
27.5°	540.9	539.3	519.1	478.7	425.9	366.8	306.2	250.2	202.1	166.3	150.8
30°	531.6	528.5	508.2	467.8	411.9	351.3	290.6	236.2	188.1	152.3	138.3
32.5°	511.4	508.2	486.5	449.2	396.3	334.2	273.6	220.7	174.1	138.3	125.9
35°	486.5	483.4	461.6	425.9	374.6	321.7	254.9	203.6	158.5	127.5	115.0
37.5°	455.4	450.7	432.1	394.8	348.2	307.7	239.4	186.5	144.5	115.0	104.1
40°	416.5	415.0	397.9	363.7	317.1	282.9	230.0	186.5	132.1	104.1	94.8
42.5°	379.2	376.1	360.6	331.1	289.1	247.1	202.1	178.7	122.8	93.3	85.5
45°	340.4	337.3	323.3	298.4	259.6	217.6	176.6	153.9	105.7	85.5	77.7
47.5°	298.4	295.3	284.4	265.8	231.6	194.3	158.5	125.9	96.4	76.2	69.9
50°	256.5	258.0	248.7	230.0	203.6	169.4	136.8	105.7	82.4	68.4	62.2
52.5°	214.5	212.9	206.7	194.3	175.6	146.1	116.6	90.1	71.5	60.6	57.5
55°	172.5	174.1	171.0	163.2	147.7	125.9	97.9	77.7	63.7	54.4	51.3
57.5°	143.0	144.5	138.3	133.7	121.2	102.6	80.8	65.3	54.4	48.2	45.1
60°	118.1	119.7	115.0	108.8	99.5	82.4	65.3	54.4	48.2	43.5	40.4
62.5°	96.4	94.8	91.7	85.5	77.7	65.3	52.8	45.1	40.4	37.3	35.7
65°	74.6	74.6	71.5	66.8	60.6	51.3	42.0	37.3	34.2	31.1	29.5
67.5°	56.0	56.0	52.8	49.7	43.5	37.3	32.6	29.5	28.0	24.9	23.3
70°	38.9	38.9	37.3	35.7	31.1	26.4	24.9	21.8	20.2	18.7	17.1
72.5°	24.9	24.9	24.9	21.8	20.2	17.1	17.1	15.5	14.0	12.4	12.4
75°	12.4	14.0	12.4	12.4	10.9	10.9	9.3	9.3	7.8	7.8	6.2
77.5°	4.7	4.7	4.7	4.7	4.7	4.7	3.1	3.1	3.1	3.1	3.1
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	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°	275.1	275.1	275.1	275.1	275.1	275.1	275.1	275.1	275.1	275.1
2.5°	270.4	265.8	262.7	258.0	254.9	251.8	250.2	248.7	248.7	248.7
5°	262.7	254.9	247.1	239.4	234.7	230.0	225.4	223.8	222.3	222.3
7.5°	253.3	240.9	230.0	220.7	212.9	208.3	203.6	200.5	198.9	198.9
10°	240.9	225.4	212.9	200.5	192.7	186.5	183.4	178.7	178.7	177.2
12.5°	226.9	208.3	194.3	183.4	175.6	167.9	163.2	160.1	158.5	158.5
15°	211.4	192.7	177.2	164.8	157.0	149.2	144.5	141.4	139.9	139.9
17.5°	195.8	175.6	160.1	147.7	139.9	132.1	127.5	124.3	124.3	122.8
20°	180.3	160.1	144.5	132.1	124.3	118.1	113.5	110.4	108.8	110.4
22.5°	166.3	146.1	130.6	119.7	110.4	104.1	99.5	97.9	96.4	96.4
25°	150.8	132.1	118.1	107.2	99.5	93.3	88.6	87.0	85.5	83.9
26°	146.1	127.5	113.5	102.6	94.8	88.6	85.5	82.4	80.8	80.8
27.5°	139.9	119.7	107.2	96.4	88.6	83.9	79.3	77.7	76.2	76.2
30°	125.9	108.8	96.4	87.0	80.8	74.6	71.5	69.9	68.4	68.4
32.5°	115.0	97.9	87.0	79.3	73.1	68.4	65.3	62.2	62.2	62.2
35°	104.1	88.6	79.3	71.5	65.3	60.6	59.1	57.5	56.0	56.0
37.5°	94.8	80.8	71.5	65.3	60.6	56.0	52.8	51.3	51.3	51.3
40°	85.5	74.6	65.3	59.1	54.4	51.3	48.2	46.6	46.6	46.6
42.5°	77.7	66.8	60.6	54.4	49.7	46.6	45.1	43.5	42.0	42.0
45°	71.5	62.2	54.4	49.7	46.6	43.5	40.4	38.9	38.9	38.9
47.5°	63.7	57.5	49.7	45.1	42.0	38.9	37.3	35.7	35.7	35.7
50°	59.1	52.8	46.6	42.0	38.9	35.7	34.2	32.6	32.6	32.6
52.5°	52.8	48.2	43.5	38.9	35.7	32.6	31.1	29.5	29.5	29.5
55°	48.2	43.5	38.9	35.7	32.6	29.5	28.0	26.4	26.4	26.4
57.5°	43.5	38.9	35.7	32.6	29.5	28.0	24.9	24.9	23.3	23.3
60°	38.9	34.2	31.1	29.5	26.4	24.9	21.8	20.2	20.2	20.2
62.5°	32.6	31.1	28.0	24.9	21.8	20.2	18.7	17.1	17.1	17.1
65°	28.0	26.4	23.3	20.2	18.7	17.1	15.5	14.0	14.0	14.0
67.5°	23.3	20.2	18.7	17.1	15.5	14.0	12.4	10.9	9.3	10.9
70°	17.1	15.5	14.0	12.4	10.9	9.3	7.8	7.8	6.2	6.2
72.5°	10.9	9.3	9.3	7.8	6.2	6.2	4.7	4.7	3.1	3.1
75°	6.2	6.2	4.7	4.7	3.1	3.1	1.6	1.6	1.6	1.6
77.5°	3.1	1.6	1.6	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)