

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: P1445673

Luminaire Tested: P3ART13R709027DE010 E3LCWW1WMH

Issue Date: 5/8/2026

Test Information

Test Method: LM-79-2019
Report Number: P1445673
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: P3ART13R709027DE010 E3LCWW1WMH
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 90CRI , E3LCWW1WMH TRIM
Light Source: -
Ballast/Driver: -

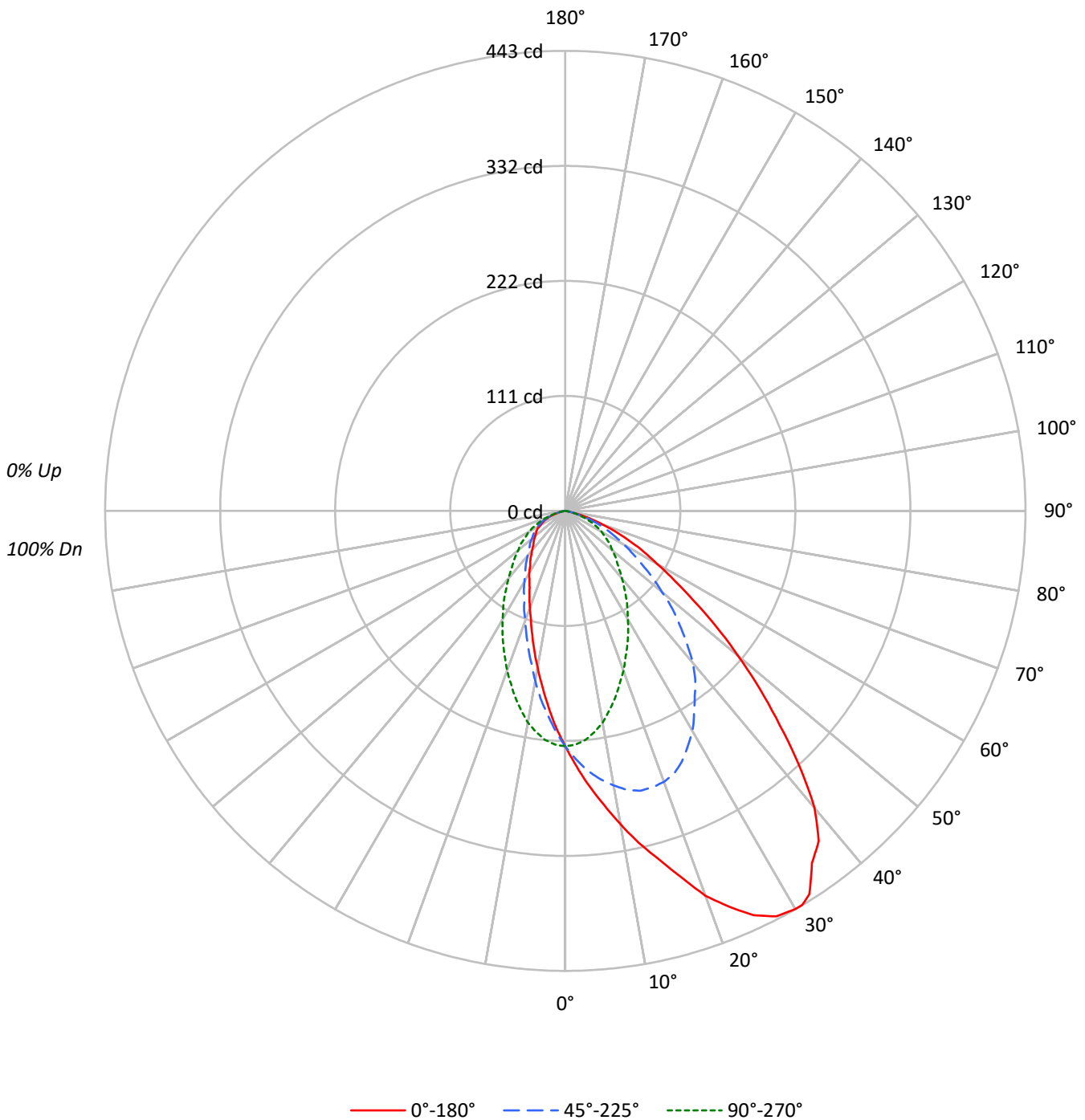
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 461.0 lumens
Efficiency: N/A
Efficacy: 31.6 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): 14.6
Input Voltage (V): NR
Input Current (A_{in}): 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

TEST NUMBER: P1445673
CATALOG NUMBER: P3ART13R709027DE010 E3LCWW1WMH

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	49689	49689	49689	49689	49689
5°	58529	55360	48734	43253	41514
10°	68246	59785	46091	37029	34134
15°	78797	63337	42225	31215	27946
20°	92011	64802	38200	26276	23219
25°	103941	64334	34236	22501	19646
30°	112093	62010	30511	19902	17572
35°	110798	58196	27358	17882	15767
40°	106857	54731	24360	16116	14255
45°	90583	48346	21925	15040	13397
50°	74164	41551	20093	14294	12963
55°	57575	34560	19039	14031	13037
60°	44821	28726	17806	13771	12060
65°	35335	23764	15618	12920	11571
70°	24363	17631	12566	10899	10066
75°	12200	9997	8896	7795	6693
80°	1642	3283	4925	3283	1642
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 90583 cd/sqm



TEST NUMBER: P1445673

CATALOG NUMBER: P3ART13R709027DE010 E3LCWW1WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.2	4.6
10°-20°	59.0	12.8
20°-30°	87.0	18.9
30°-40°	97.5	21.2
40°-50°	85.8	18.6
50°-60°	61.4	13.3
60°-70°	36.3	7.9
70°-80°	12.2	2.6
80°-90°	0.6	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°	167.2	36.3
0°-40°	264.8	57.4
0°-60°	411.9	89.3
0°-90°	461.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	461.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	227	227	227	227	227	
5°	266	252	221	196	189	27
15°	347	279	186	138	123	100
25°	430	266	142	93	81	198
35°	414	217	102	67	59	260
45°	292	156	71	48	43	226
55°	151	90	50	37	34	138
65°	68	46	30	25	22	68
75°	14	12	10	9	8	18
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P1445673

CATALOG NUMBER: P3ART13R709027DE010 E3LCWW1WMH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	226.6	226.6	226.6	226.6	226.6	226.6	226.6	226.6	226.6	226.6	226.6
2.5°	246.2	246.2	246.2	243.6	243.6	239.7	237.1	233.1	230.5	226.6	225.3
5°	265.9	265.9	263.3	260.7	256.7	251.5	244.9	238.4	230.5	224.0	221.4
7.5°	285.5	286.9	282.9	277.7	269.8	260.7	251.5	241.0	229.2	220.1	214.8
10°	306.5	306.5	301.3	293.4	281.6	268.5	254.1	239.7	225.3	212.2	207.0
12.5°	327.5	326.1	319.6	307.8	293.4	275.1	255.4	237.1	220.1	204.3	196.5
15°	347.1	347.1	337.9	323.5	302.6	279.0	255.4	231.8	212.2	193.9	186.0
17.5°	369.4	369.4	357.6	335.3	309.1	279.0	251.5	225.3	203.0	183.4	174.2
20°	394.3	392.9	375.9	345.8	311.7	277.7	246.2	217.4	192.5	171.6	163.7
22.5°	412.6	411.3	391.6	355.0	313.0	273.8	237.1	207.0	182.1	161.1	151.9
25°	429.6	427.0	404.7	358.9	310.4	265.9	227.9	195.2	171.6	150.6	141.5
27.5°	440.1	438.8	413.9	357.6	303.9	255.4	216.1	184.7	159.8	138.8	131.0
30°	442.7	444.0	413.9	351.0	293.4	244.9	204.3	172.9	148.0	129.7	120.5
31°	442.7	444.0	411.3	347.1	289.5	239.7	199.1	169.0	142.8	124.4	116.6
32.5°	437.5	434.9	407.4	340.6	280.3	230.5	192.5	162.4	136.2	117.9	111.3
35°	413.9	415.2	394.3	326.1	267.2	217.4	179.4	149.3	124.4	108.7	102.2
37.5°	400.8	400.8	362.8	306.5	252.8	205.6	163.7	134.9	114.0	99.5	93.0
40°	373.3	369.4	334.0	285.5	235.8	191.2	154.6	125.7	104.8	90.4	85.1
42.5°	334.0	330.1	302.6	267.2	213.5	172.9	146.7	111.3	94.3	82.5	77.3
45°	292.1	289.5	268.5	235.8	192.5	155.9	127.1	102.2	86.4	74.7	70.7
47.5°	254.1	250.2	234.5	209.6	174.2	140.2	110.0	91.7	77.3	68.1	65.5
50°	217.4	216.1	203.0	183.4	154.6	121.8	96.9	81.2	70.7	62.9	58.9
52.5°	183.4	180.8	174.2	158.5	134.9	106.1	85.1	72.0	62.9	57.6	55.0
55°	150.6	150.6	144.1	133.6	115.3	90.4	74.7	64.2	56.3	52.4	49.8
57.5°	124.4	124.4	119.2	112.6	95.6	77.3	65.5	56.3	51.1	47.2	44.5
60°	102.2	102.2	98.2	91.7	79.9	65.5	56.3	49.8	45.8	41.9	40.6
62.5°	85.1	83.8	81.2	74.7	65.5	55.0	48.5	43.2	39.3	36.7	35.4
65°	68.1	66.8	64.2	58.9	52.4	45.8	40.6	36.7	34.1	31.4	30.1
67.5°	52.4	52.4	49.8	45.8	40.6	36.7	32.7	30.1	27.5	26.2	24.9
70°	38.0	38.0	36.7	34.1	30.1	27.5	24.9	23.6	22.3	21.0	19.6
72.5°	26.2	26.2	24.9	23.6	21.0	19.6	17.0	17.0	15.7	15.7	14.4
75°	14.4	14.4	14.4	13.1	13.1	11.8	11.8	11.8	10.5	10.5	10.5
77.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
80°	1.3	1.3	1.3	1.3	2.6	2.6	2.6	2.6	3.9	3.9	3.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3
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: P1445673
 CATALOG NUMBER: P3ART13R709027DE010 E3LCWW1WMH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	226.6	226.6	226.6	226.6	226.6	226.6	226.6	226.6	226.6	226.6
2.5°	224.0	220.1	217.4	216.1	212.2	210.9	209.6	208.3	208.3	208.3
5°	218.7	212.2	205.6	201.7	196.5	193.9	191.2	189.9	188.6	188.6
7.5°	209.6	201.7	193.9	187.3	182.1	176.8	174.2	171.6	171.6	170.3
10°	200.4	189.9	180.8	171.6	166.3	159.8	157.2	154.6	153.3	153.3
12.5°	189.9	176.8	166.3	158.5	150.6	145.4	141.5	138.8	137.5	137.5
15°	178.1	165.0	153.3	145.4	137.5	131.0	127.1	124.4	123.1	123.1
17.5°	166.3	153.3	140.2	132.3	124.4	117.9	115.3	112.6	111.3	110.0
20°	155.9	140.2	129.7	119.2	112.6	107.4	103.5	100.9	99.5	99.5
22.5°	144.1	129.7	117.9	110.0	103.5	98.2	93.0	91.7	90.4	90.4
25°	132.3	119.2	108.7	100.9	93.0	89.1	85.1	82.5	82.5	81.2
27.5°	123.1	110.0	99.5	91.7	86.4	81.2	78.6	76.0	74.7	74.7
30°	112.6	100.9	91.7	85.1	78.6	74.7	72.0	69.4	69.4	69.4
31°	110.0	98.2	89.1	81.2	76.0	72.0	69.4	68.1	66.8	66.8
32.5°	103.5	93.0	83.8	77.3	72.0	68.1	65.5	64.2	64.2	62.9
35°	95.6	85.1	77.3	70.7	66.8	62.9	60.3	58.9	58.9	58.9
37.5°	87.8	78.6	70.7	65.5	61.6	57.6	56.3	53.7	53.7	53.7
40°	79.9	72.0	65.5	60.3	56.3	53.7	52.4	51.1	49.8	49.8
42.5°	73.4	65.5	60.3	56.3	52.4	49.8	48.5	47.2	47.2	45.8
45°	66.8	60.3	56.3	52.4	48.5	47.2	45.8	44.5	43.2	43.2
47.5°	61.6	56.3	51.1	48.5	45.8	43.2	41.9	41.9	40.6	40.6
50°	56.3	51.1	47.2	44.5	41.9	40.6	39.3	39.3	38.0	38.0
52.5°	52.4	47.2	44.5	41.9	39.3	38.0	36.7	36.7	35.4	35.4
55°	47.2	43.2	40.6	39.3	36.7	35.4	34.1	32.7	32.7	34.1
57.5°	43.2	40.6	38.0	36.7	34.1	32.7	31.4	31.4	30.1	31.4
60°	39.3	36.7	34.1	32.7	31.4	30.1	28.8	27.5	27.5	27.5
62.5°	35.4	32.7	31.4	28.8	27.5	27.5	26.2	26.2	26.2	24.9
65°	30.1	28.8	27.5	26.2	24.9	23.6	23.6	22.3	22.3	22.3
67.5°	24.9	23.6	22.3	22.3	21.0	19.6	19.6	19.6	19.6	18.3
70°	19.6	18.3	18.3	17.0	17.0	17.0	15.7	15.7	15.7	15.7
72.5°	14.4	14.4	13.1	13.1	13.1	13.1	11.8	11.8	11.8	11.8
75°	10.5	10.5	10.5	9.2	9.2	9.2	7.9	7.9	7.9	7.9
77.5°	6.5	6.5	6.5	6.5	6.5	5.2	5.2	5.2	5.2	5.2
80°	3.9	3.9	3.9	3.9	2.6	2.6	2.6	2.6	2.6	1.3
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	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)