

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: P3ART20R709735D010 E3LCWW1WMH

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: P3ART20R709735D010 E3LCWW1WMH
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 97CRI , E3LCWW1WMH TRIM
Light Source: -
Ballast/Driver: -

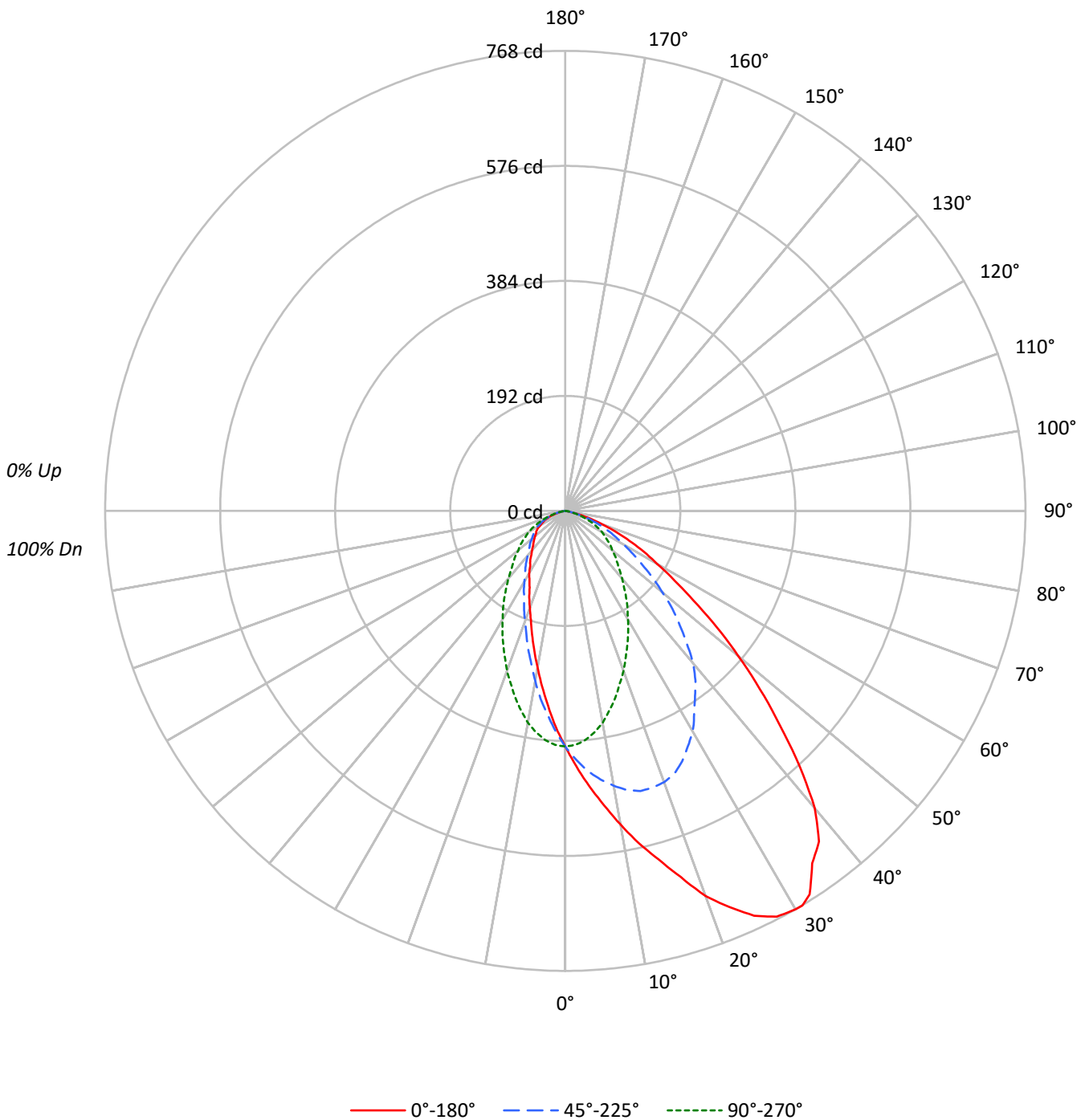
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 800.0 lumens
Efficiency: N/A
Efficacy: 27.8 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): 28.8
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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88	88	88
2	102	95	90	85	100	93	88	84	90	86	82	87	83	80	84	81	78	76	76	76	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66	66	66	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58	58	58	58
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	51	51	51	51
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46	46	46	46
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	41	41	41	41
8	65	53	45	39	64	52	45	39	51	44	39	50	43	39	48	43	39	37	37	37	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34	34	34	34
10	57	45	38	33	56	45	37	33	44	37	33	43	37	32	42	36	32	31	31	31	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	86221	86221	86221	86221	86221
5°	101563	96060	84547	75060	72045
10°	118435	103761	79958	64283	59206
15°	136754	109921	73281	54189	48513
20°	159661	112453	66296	45621	40300
25°	180398	111635	59399	39051	34091
30°	194536	107637	52945	34537	30511
35°	192283	101000	47462	31026	27385
40°	185433	95007	42279	27967	24732
45°	157195	83885	38050	26080	23258
50°	128712	72117	34899	24801	22481
55°	99934	59945	33031	24315	22594
60°	77757	49864	30919	23945	20919
65°	61330	41301	27136	22415	20028
70°	42251	30582	21863	18913	17503
75°	21181	17368	15420	13471	11522
80°	2904	5683	8587	5683	2904
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 157195 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.8	4.6
10°-20°	102.4	12.8
20°-30°	151.0	18.9
30°-40°	169.3	21.2
40°-50°	148.8	18.6
50°-60°	106.5	13.3
60°-70°	63.1	7.9
70°-80°	21.2	2.6
80°-90°	1.0	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°	290.2	36.3
0°-40°	459.5	57.4
0°-60°	714.8	89.3
0°-90°	800.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	800.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	393	393	393	393	393	
5°	461	436	384	341	327	46
15°	602	484	323	239	214	174
25°	746	461	246	161	141	343
35°	718	377	177	116	102	451
45°	507	270	123	84	75	392
55°	261	157	86	64	59	239
65°	118	80	52	43	39	118
75°	25	20	18	16	14	30
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°	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2
2.5°	427.3	427.3	427.3	422.8	422.8	416.0	411.4	404.6	400.1	393.2	391.0
5°	461.4	461.4	456.9	452.3	445.5	436.4	425.1	413.7	400.1	388.7	384.1
7.5°	495.5	497.8	491.0	481.9	468.2	452.3	436.4	418.2	397.8	381.9	372.8
10°	531.9	531.9	522.8	509.2	488.7	466.0	441.0	416.0	391.0	368.2	359.1
12.5°	568.3	566.0	554.6	534.2	509.2	477.3	443.2	411.4	381.9	354.6	341.0
15°	602.4	602.4	586.4	561.4	525.1	484.2	443.2	402.3	368.2	336.4	322.8
17.5°	641.0	641.0	620.5	581.9	536.4	484.2	436.4	391.0	352.3	318.2	302.3
20°	684.2	681.9	652.4	600.1	541.0	481.9	427.3	377.3	334.1	297.8	284.1
22.5°	716.0	713.7	679.6	616.0	543.3	475.1	411.4	359.1	316.0	279.6	263.7
25°	745.6	741.0	702.4	622.8	538.7	461.4	395.5	338.7	297.8	261.4	245.5
27.5°	763.7	761.5	718.3	620.5	527.3	443.2	375.0	320.5	277.3	240.9	227.3
30°	768.3	770.6	718.3	609.2	509.2	425.1	354.6	300.0	256.9	225.0	209.1
31°	768.3	770.6	713.7	602.4	502.3	416.0	345.5	293.2	247.8	215.9	202.3
32.5°	759.2	754.6	706.9	591.0	486.4	400.1	334.1	281.9	236.4	204.6	193.2
35°	718.3	720.5	684.2	566.0	463.7	377.3	311.4	259.1	215.9	188.7	177.3
37.5°	695.5	695.5	629.6	531.9	438.7	356.9	284.1	234.1	197.8	172.7	161.4
40°	647.8	641.0	579.6	495.5	409.1	331.9	268.2	218.2	181.8	156.8	147.7
42.5°	579.6	572.8	525.1	463.7	370.5	300.0	254.6	193.2	163.7	143.2	134.1
45°	506.9	502.3	466.0	409.1	334.1	270.5	220.5	177.3	150.0	129.6	122.7
47.5°	441.0	434.1	406.9	363.7	302.3	243.2	190.9	159.1	134.1	118.2	113.7
50°	377.3	375.0	352.3	318.2	268.2	211.4	168.2	140.9	122.7	109.1	102.3
52.5°	318.2	313.7	302.3	275.0	234.1	184.1	147.7	125.0	109.1	100.0	95.5
55°	261.4	261.4	250.0	231.8	200.0	156.8	129.6	111.4	97.7	90.9	86.4
57.5°	215.9	215.9	206.8	195.5	165.9	134.1	113.7	97.7	88.6	81.8	77.3
60°	177.3	177.3	170.5	159.1	138.7	113.7	97.7	86.4	79.6	72.7	70.5
62.5°	147.7	145.5	140.9	129.6	113.7	95.5	84.1	75.0	68.2	63.6	61.4
65°	118.2	115.9	111.4	102.3	90.9	79.6	70.5	63.6	59.1	54.6	52.3
67.5°	90.9	90.9	86.4	79.6	70.5	63.6	56.8	52.3	47.7	45.5	43.2
70°	65.9	65.9	63.6	59.1	52.3	47.7	43.2	40.9	38.6	36.4	34.1
72.5°	45.5	45.5	43.2	40.9	36.4	34.1	29.5	29.5	27.3	27.3	25.0
75°	25.0	25.0	25.0	22.7	22.7	20.5	20.5	20.5	18.2	18.2	18.2
77.5°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
80°	2.3	2.3	2.3	2.3	4.5	4.5	4.5	4.5	6.8	6.8	6.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.3	2.3	2.3	2.3	2.3
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



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2
2.5°	388.7	381.9	377.3	375.0	368.2	366.0	363.7	361.4	361.4	361.4
5°	379.6	368.2	356.9	350.0	341.0	336.4	331.9	329.6	327.3	327.3
7.5°	363.7	350.0	336.4	325.0	316.0	306.9	302.3	297.8	297.8	295.5
10°	347.8	329.6	313.7	297.8	288.7	277.3	272.8	268.2	265.9	265.9
12.5°	329.6	306.9	288.7	275.0	261.4	252.3	245.5	240.9	238.7	238.7
15°	309.1	286.4	265.9	252.3	238.7	227.3	220.5	215.9	213.7	213.7
17.5°	288.7	265.9	243.2	229.6	215.9	204.6	200.0	195.5	193.2	190.9
20°	270.5	243.2	225.0	206.8	195.5	186.4	179.6	175.0	172.7	172.7
22.5°	250.0	225.0	204.6	190.9	179.6	170.5	161.4	159.1	156.8	156.8
25°	229.6	206.8	188.7	175.0	161.4	154.6	147.7	143.2	143.2	140.9
27.5°	213.7	190.9	172.7	159.1	150.0	140.9	136.4	131.8	129.6	129.6
30°	195.5	175.0	159.1	147.7	136.4	129.6	125.0	120.5	120.5	120.5
31°	190.9	170.5	154.6	140.9	131.8	125.0	120.5	118.2	115.9	115.9
32.5°	179.6	161.4	145.5	134.1	125.0	118.2	113.7	111.4	111.4	109.1
35°	165.9	147.7	134.1	122.7	115.9	109.1	104.6	102.3	102.3	102.3
37.5°	152.3	136.4	122.7	113.7	106.8	100.0	97.7	93.2	93.2	93.2
40°	138.7	125.0	113.7	104.6	97.7	93.2	90.9	88.6	86.4	86.4
42.5°	127.3	113.7	104.6	97.7	90.9	86.4	84.1	81.8	81.8	79.6
45°	115.9	104.6	97.7	90.9	84.1	81.8	79.6	77.3	75.0	75.0
47.5°	106.8	97.7	88.6	84.1	79.6	75.0	72.7	72.7	70.5	70.5
50°	97.7	88.6	81.8	77.3	72.7	70.5	68.2	68.2	65.9	65.9
52.5°	90.9	81.8	77.3	72.7	68.2	65.9	63.6	63.6	61.4	61.4
55°	81.8	75.0	70.5	68.2	63.6	61.4	59.1	56.8	56.8	59.1
57.5°	75.0	70.5	65.9	63.6	59.1	56.8	54.6	54.6	52.3	54.6
60°	68.2	63.6	59.1	56.8	54.6	52.3	50.0	47.7	47.7	47.7
62.5°	61.4	56.8	54.6	50.0	47.7	47.7	45.5	45.5	45.5	43.2
65°	52.3	50.0	47.7	45.5	43.2	40.9	40.9	38.6	38.6	38.6
67.5°	43.2	40.9	38.6	38.6	36.4	34.1	34.1	34.1	34.1	31.8
70°	34.1	31.8	31.8	29.5	29.5	29.5	27.3	27.3	27.3	27.3
72.5°	25.0	25.0	22.7	22.7	22.7	22.7	20.5	20.5	20.5	20.5
75°	18.2	18.2	18.2	15.9	15.9	15.9	13.6	13.6	13.6	13.6
77.5°	11.4	11.4	11.4	11.4	11.4	9.1	9.1	9.1	9.1	9.1
80°	6.8	6.8	6.8	6.8	4.5	4.5	4.5	4.5	4.5	2.3
82.5°	2.3	2.3	2.3	2.3	2.3	2.3	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)