

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: P1339439

Luminaire Tested: P3A05R459727DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339439
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R459727DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

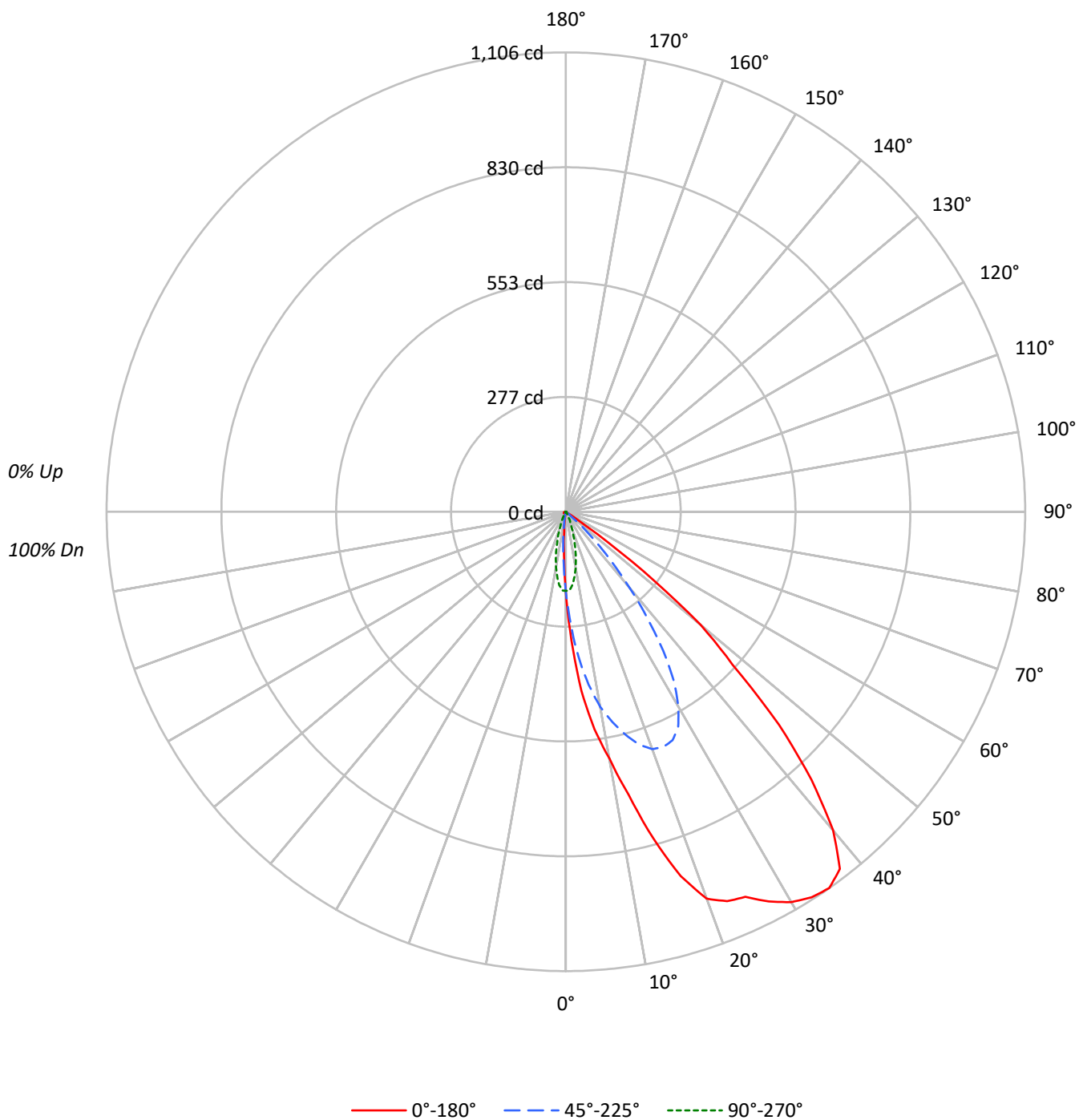
Lumens per Lamp: N/A
Luminaire Lumens: 501.0 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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
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		
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82		
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45		
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41		
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	41795	41795	41795	41795	41795
5°	95267	77284	39115	15672	10698
10°	134244	106166	30238	3451	1581
15°	184995	126312	19319	1135	953
20°	231323	141879	10081	793	793
25°	247563	146888	4670	605	702
30°	274776	137186	2127	633	734
35°	295987	109352	669	669	910
40°	286394	67756	372	830	1088
45°	224923	31972	403	1054	1302
50°	144507	3718	580	1296	1706
55°	21944	306	650	1606	2064
60°	351	351	746	1842	2193
65°	415	415	882	1972	2594
70°	513	513	1090	2180	2949
75°	339	678	1440	2457	3219
80°	505	1010	1642	2652	3662
85°	0	1006	2013	3271	3271

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 224923 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.9	4.2
10°-20°	75.4	15.1
20°-30°	132.5	26.5
30°-40°	150.5	30.0
40°-50°	97.4	19.5
50°-60°	19.1	3.8
60°-70°	2.3	0.5
70°-80°	1.9	0.4
80°-90°	0.9	0.2
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°	228.8	45.7
0°-40°	379.3	75.7
0°-60°	495.9	99.0
0°-90°	501.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	501.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	191	191	191	191	191	
5°	433	351	178	71	49	46
15°	815	556	85	5	4	235
25°	1023	607	19	2	3	480
35°	1106	408	2	2	3	680
45°	725	103	1	3	4	547
55°	57	1	2	4	5	110
65°	1	1	2	4	5	1
75°	0	1	2	3	4	0
85°	0	0	1	1	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	190.6	190.6	190.6	190.6	190.6	190.6	190.6	190.6	190.6	190.6	190.6
2.5°	309.6	308.8	310.1	301.7	301.3	295.0	293.3	286.2	276.5	271.9	261.0
5°	432.8	428.6	428.6	418.6	415.2	408.1	395.9	380.9	368.3	351.1	332.7
7.5°	527.9	527.1	527.1	518.3	509.9	499.9	483.5	466.3	446.2	419.8	393.0
10°	602.9	604.2	600.4	592.5	580.3	569.4	550.1	529.2	504.5	476.8	441.2
12.5°	697.6	688.4	685.5	667.5	651.9	631.0	608.0	584.1	553.5	518.7	478.5
15°	814.9	803.2	791.5	767.6	741.6	709.4	673.3	638.1	598.7	556.4	506.1
17.5°	919.7	919.7	904.2	866.5	833.0	785.2	736.6	689.7	643.1	587.4	524.6
20°	991.3	987.6	975.8	948.2	910.0	856.0	792.7	726.9	670.8	608.0	535.1
22.5°	1014.8	1014.0	1014.4	998.0	967.4	911.3	833.8	756.3	685.9	613.0	530.0
25°	1023.2	1024.8	1029.0	1022.8	999.7	943.6	858.9	770.1	690.5	607.1	510.7
27.5°	1058.0	1054.6	1059.2	1055.0	1029.0	962.0	864.0	766.8	680.4	585.7	476.4
30°	1085.2	1084.3	1092.3	1088.5	1054.6	973.7	859.3	754.2	655.7	541.8	422.3
32.5°	1100.7	1101.1	1103.2	1087.7	1037.4	948.2	836.7	728.6	609.2	484.4	352.0
35°	1105.7	1103.2	1091.5	1053.3	984.6	889.1	781.0	667.9	545.9	408.5	278.2
37.5°	1083.9	1070.9	1040.8	983.8	904.2	814.9	709.8	591.2	459.2	322.6	207.4
40°	1000.5	983.4	945.2	887.0	812.8	726.5	618.8	494.8	356.1	236.7	145.8
42.5°	875.7	866.9	827.1	776.4	713.5	626.4	515.4	389.7	263.5	163.4	93.0
45°	725.3	714.0	688.8	644.0	594.5	503.2	399.7	279.0	179.7	103.1	46.1
47.5°	543.8	544.7	527.5	493.6	445.0	368.7	273.6	187.3	112.7	53.2	10.5
50°	423.6	417.7	393.4	358.7	302.1	245.5	176.8	118.2	59.5	10.9	0.8
52.5°	234.6	238.4	225.4	214.1	184.8	146.6	104.3	59.9	12.6	1.3	0.8
55°	57.4	60.8	58.2	59.5	61.6	54.9	42.3	11.7	1.3	0.8	0.8
57.5°	1.3	1.3	1.3	1.3	2.1	2.9	2.9	0.8	0.8	0.8	0.8
60°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
62.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
65°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
67.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.8	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	0.8
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	0.8
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8
82.5°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	190.6	190.6	190.6	190.6	190.6	190.6	190.6	190.6
2.5°	255.6	247.6	233.0	189.4	152.1	122.8	105.2	103.5
5°	316.3	295.0	264.0	177.7	112.3	71.2	51.5	48.6
7.5°	364.5	334.4	286.6	158.4	76.7	36.5	20.1	16.8
10°	404.3	361.6	298.3	135.8	48.2	15.5	8.4	7.1
12.5°	431.6	380.0	300.4	110.6	27.7	7.5	5.4	5.0
15°	449.2	385.9	290.4	85.1	15.5	5.0	4.6	4.2
17.5°	456.3	380.9	271.1	61.6	8.4	3.8	3.8	3.8
20°	452.9	364.5	242.6	43.2	5.4	3.4	3.4	3.4
22.5°	437.0	336.4	207.0	28.9	3.8	2.9	2.9	2.9
25°	405.6	298.3	169.3	19.3	2.5	2.5	2.9	2.9
27.5°	358.7	251.4	129.5	13.0	2.1	2.5	2.9	2.9
30°	299.6	199.0	93.0	8.4	2.1	2.5	2.5	2.9
32.5°	238.0	145.0	61.2	5.0	1.7	2.5	2.9	3.4
35°	172.6	98.9	39.0	2.5	2.1	2.5	2.9	3.4
37.5°	121.1	64.5	22.6	1.7	2.1	2.5	3.4	3.4
40°	78.8	36.0	8.4	1.3	2.1	2.9	3.4	3.8
42.5°	41.1	12.6	1.7	1.3	2.1	2.9	3.8	4.2
45°	10.5	1.7	0.4	1.3	2.5	3.4	4.2	4.2
47.5°	1.3	0.4	0.4	1.7	2.5	3.8	4.2	4.6
50°	0.4	0.8	0.8	1.7	2.5	3.8	4.6	5.0
52.5°	0.8	0.8	0.8	1.7	2.9	3.8	5.0	5.4
55°	0.8	0.8	0.8	1.7	2.9	4.2	5.0	5.4
57.5°	0.8	0.8	0.8	1.7	2.9	4.2	5.0	5.0
60°	0.8	0.8	0.8	1.7	2.9	4.2	5.0	5.0
62.5°	0.8	0.8	1.3	1.7	2.9	3.8	5.0	5.0
65°	0.8	1.3	1.3	1.7	2.9	3.8	4.6	5.0
67.5°	0.8	0.8	1.3	1.7	2.9	3.8	4.6	5.0
70°	0.8	0.8	1.3	1.7	2.5	3.4	4.2	4.6
72.5°	0.8	0.8	1.3	1.7	2.5	3.4	3.8	4.2
75°	0.8	0.8	1.3	1.7	2.1	2.9	3.8	3.8
77.5°	0.8	0.8	1.3	1.3	2.1	2.5	3.4	3.4
80°	0.8	0.8	1.3	1.3	1.7	2.1	2.5	2.9
82.5°	0.8	0.8	0.8	1.3	1.3	1.7	2.1	2.1
85°	0.8	0.8	0.8	0.8	0.8	1.3	1.3	1.3
87.5°	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)