

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: P1339471

Luminaire Tested: P3A05R459735DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339471
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: P3A05R459735DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

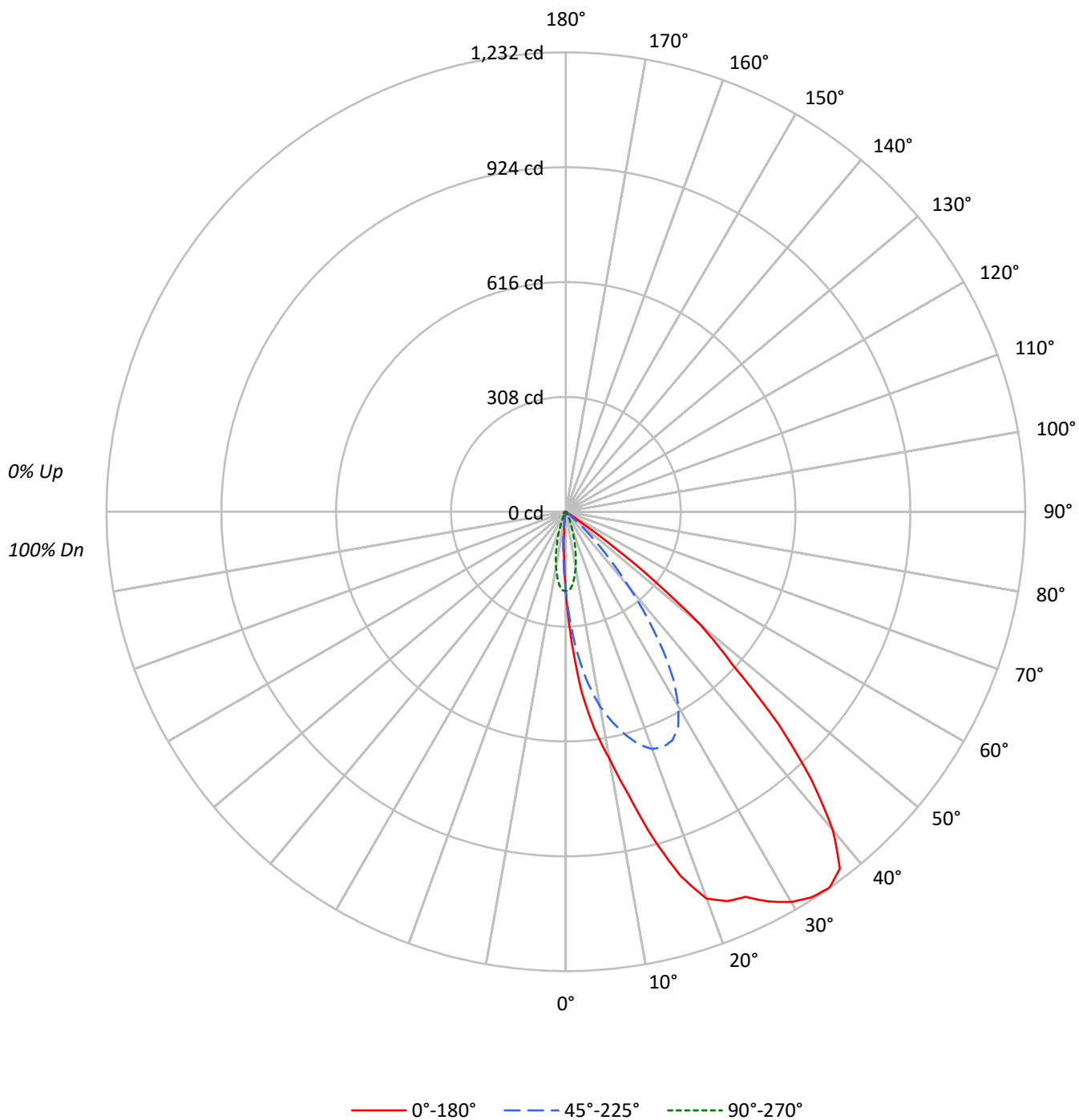
Lumens per Lamp: N/A
Luminaire Lumens: 558.0 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	46553	46553	46553	46553	46553
5°	106119	86088	43561	17455	11908
10°	149518	118257	33667	3852	1759
15°	206062	140682	21498	1271	1067
20°	257646	158004	11224	863	863
25°	275726	163606	5202	677	798
30°	306022	152783	2355	709	836
35°	329663	121800	750	750	990
40°	318998	75484	401	945	1202
45°	250507	35601	434	1147	1458
50°	160950	4128	648	1433	1910
55°	24429	344	726	1797	2332
60°	395	395	833	2061	2456
65°	467	467	986	2179	2906
70°	577	577	1218	2372	3270
75°	424	763	1610	2796	3558
80°	631	1137	1768	2904	4167
85°	0	1258	2264	3522	3522

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 250507 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.2	4.2
10°-20°	84.0	15.1
20°-30°	147.6	26.5
30°-40°	167.6	30.0
40°-50°	108.5	19.5
50°-60°	21.3	3.8
60°-70°	2.6	0.5
70°-80°	2.1	0.4
80°-90°	1.0	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°	254.9	45.7
0°-40°	422.5	75.7
0°-60°	552.3	99.0
0°-90°	558.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	558.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	212	212	212	212	212	
5°	482	391	198	79	54	51
15°	908	620	95	6	5	261
25°	1140	676	22	3	3	534
35°	1232	455	3	3	4	757
45°	808	115	1	4	5	609
55°	64	1	2	5	6	122
65°	1	1	2	4	6	1
75°	0	1	2	3	4	1
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°	212.3	212.3	212.3	212.3	212.3	212.3	212.3	212.3	212.3	212.3	212.3
2.5°	344.9	343.9	345.3	336.0	335.5	328.5	326.7	318.7	308.0	302.9	290.7
5°	482.1	477.4	477.4	466.2	462.5	454.5	441.0	424.2	410.2	391.1	370.5
7.5°	588.0	587.1	587.1	577.3	567.9	556.7	538.5	519.4	497.0	467.6	437.7
10°	671.5	672.9	668.7	659.9	646.3	634.2	612.7	589.4	561.9	531.1	491.4
12.5°	777.0	766.7	763.5	743.4	726.1	702.8	677.1	650.5	616.5	577.7	532.9
15°	907.7	894.6	881.5	854.9	826.0	790.1	749.9	710.7	666.9	619.7	563.7
17.5°	1024.3	1024.3	1007.1	965.1	927.7	874.5	820.4	768.1	716.3	654.3	584.3
20°	1104.1	1099.9	1086.9	1056.1	1013.6	953.4	882.9	809.7	747.1	677.1	595.9
22.5°	1130.2	1129.3	1129.8	1111.6	1077.5	1015.0	928.7	842.3	763.9	682.7	590.3
25°	1139.6	1141.4	1146.1	1139.1	1113.5	1050.9	956.7	857.7	769.1	676.2	568.9
27.5°	1178.3	1174.6	1179.7	1175.0	1146.1	1071.5	962.3	854.0	757.9	652.4	530.6
30°	1208.6	1207.7	1216.6	1212.4	1174.6	1084.5	957.1	840.0	730.3	603.4	470.4
32.5°	1225.9	1226.4	1228.7	1211.4	1155.4	1056.1	931.9	811.5	678.5	539.5	392.0
35°	1231.5	1228.7	1215.6	1173.2	1096.7	990.3	869.9	743.9	608.1	455.0	309.9
37.5°	1207.2	1192.8	1159.2	1095.7	1007.1	907.7	790.5	658.5	511.5	359.3	231.0
40°	1114.4	1095.3	1052.8	987.9	905.3	809.2	689.3	551.1	396.7	263.7	162.4
42.5°	975.3	965.5	921.2	864.7	794.7	697.7	574.0	434.0	293.5	182.0	103.6
45°	807.8	795.2	767.2	717.3	662.2	560.5	445.2	310.8	200.2	114.8	51.3
47.5°	605.7	606.7	587.5	549.7	495.6	410.7	304.7	208.6	125.5	59.3	11.7
50°	471.8	465.3	438.2	399.5	336.5	273.5	196.9	131.6	66.3	12.1	0.9
52.5°	261.3	265.5	251.1	238.5	205.8	163.3	116.2	66.7	14.0	1.4	0.9
55°	63.9	67.7	64.9	66.3	68.6	61.1	47.1	13.1	1.4	0.9	0.9
57.5°	1.4	1.4	1.4	1.4	2.3	3.3	3.3	0.9	0.9	0.9	0.9
60°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
62.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
65°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
67.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
70°	0.9	0.9	0.9	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9	0.9
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9	0.9
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9
82.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
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°	212.3	212.3	212.3	212.3	212.3	212.3	212.3	212.3
2.5°	284.7	275.8	259.5	210.9	169.4	136.7	117.1	115.3
5°	352.3	328.5	294.0	197.9	125.1	79.3	57.4	54.1
7.5°	406.0	372.4	319.2	176.4	85.4	40.6	22.4	18.7
10°	450.3	402.7	332.3	151.2	53.7	17.3	9.3	7.9
12.5°	480.7	423.3	334.6	123.2	30.8	8.4	6.1	5.6
15°	500.3	429.8	323.4	94.7	17.3	5.6	5.1	4.7
17.5°	508.2	424.2	301.9	68.6	9.3	4.2	4.2	4.2
20°	504.5	406.0	270.2	48.1	6.1	3.7	3.7	3.7
22.5°	486.7	374.7	230.5	32.2	4.2	3.3	3.3	3.3
25°	451.7	332.3	188.5	21.5	2.8	2.8	3.3	3.3
27.5°	399.5	280.0	144.2	14.5	2.3	2.8	3.3	3.3
30°	333.7	221.7	103.6	9.3	2.3	2.8	2.8	3.3
32.5°	265.1	161.5	68.1	5.6	1.9	2.8	3.3	3.7
35°	192.3	110.1	43.4	2.8	2.3	2.8	3.3	3.7
37.5°	134.9	71.9	25.2	1.9	2.3	2.8	3.7	3.7
40°	87.7	40.1	9.3	1.4	2.3	3.3	3.7	4.2
42.5°	45.7	14.0	1.9	1.4	2.3	3.3	4.2	4.7
45°	11.7	1.9	0.5	1.4	2.8	3.7	4.7	4.7
47.5°	1.4	0.5	0.5	1.9	2.8	4.2	4.7	5.1
50°	0.5	0.9	0.9	1.9	2.8	4.2	5.1	5.6
52.5°	0.9	0.9	0.9	1.9	3.3	4.2	5.6	6.1
55°	0.9	0.9	0.9	1.9	3.3	4.7	5.6	6.1
57.5°	0.9	0.9	0.9	1.9	3.3	4.7	5.6	5.6
60°	0.9	0.9	0.9	1.9	3.3	4.7	5.6	5.6
62.5°	0.9	0.9	1.4	1.9	3.3	4.2	5.6	5.6
65°	0.9	1.4	1.4	1.9	3.3	4.2	5.1	5.6
67.5°	0.9	0.9	1.4	1.9	3.3	4.2	5.1	5.6
70°	0.9	0.9	1.4	1.9	2.8	3.7	4.7	5.1
72.5°	0.9	0.9	1.4	1.9	2.8	3.7	4.2	4.7
75°	0.9	0.9	1.4	1.9	2.3	3.3	4.2	4.2
77.5°	0.9	0.9	1.4	1.4	2.3	2.8	3.7	3.7
80°	0.9	0.9	1.4	1.4	1.9	2.3	2.8	3.3
82.5°	0.9	0.9	0.9	1.4	1.4	1.9	2.3	2.3
85°	0.9	0.9	0.9	0.9	0.9	1.4	1.4	1.4
87.5°	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)