

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: P1339455

Luminaire Tested: P3A05R459730DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339455
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: P3A05R459730DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

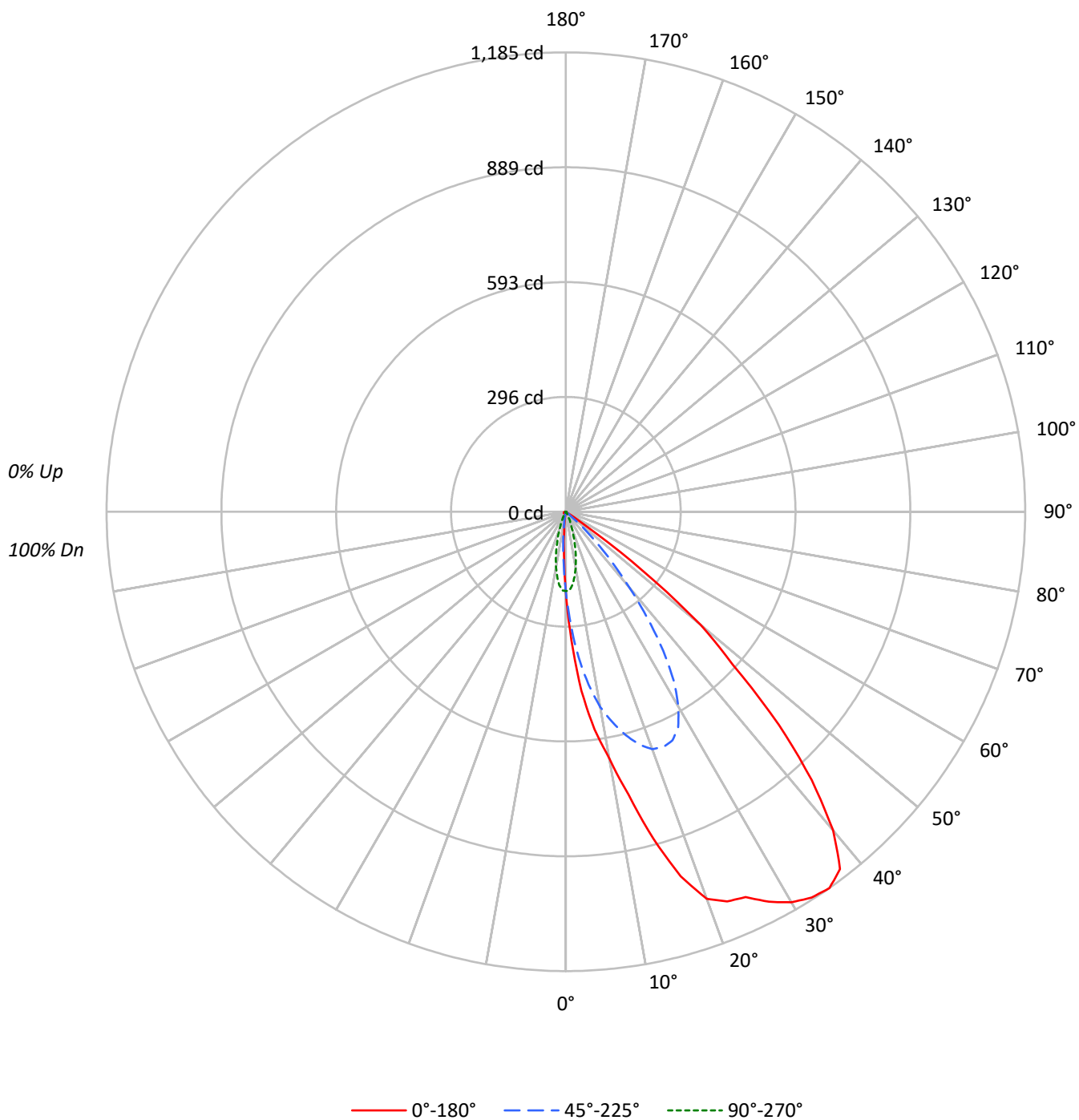
Lumens per Lamp: N/A
Luminaire Lumens: 536.9 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1339455

CATALOG NUMBER: P3A05R459730DE010 E3CA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1339455

CATALOG NUMBER: P3A05R459730DE010 E3CA301MW

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°	44799	44799	44799	44799	44799
5°	102113	82831	41911	16795	11468
10°	143907	113803	32398	3696	1692
15°	198299	135392	20704	1226	1022
20°	247962	152053	10804	840	840
25°	265346	157437	5008	653	750
30°	294526	147035	2279	684	785
35°	317269	117222	723	723	964
40°	306975	72622	372	887	1145
45°	241079	34267	403	1116	1395
50°	154878	3991	614	1365	1842
55°	23512	344	688	1720	2217
60°	395	395	789	1974	2368
65°	467	467	934	2075	2802
70°	577	577	1154	2308	3142
75°	339	763	1525	2626	3389
80°	505	1137	1642	2778	3915
85°	0	1006	2264	3271	3271

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 241079 cd/sqm

TEST NUMBER: P1339455

CATALOG NUMBER: P3A05R459730DE010 E3CA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.4	4.2
10°-20°	80.8	15.1
20°-30°	142.0	26.5
30°-40°	161.3	30.0
40°-50°	104.4	19.5
50°-60°	20.5	3.8
60°-70°	2.5	0.5
70°-80°	2.0	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°	245.2	45.7
0°-40°	406.5	75.7
0°-60°	531.5	99.0
0°-90°	536.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	536.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	204	204	204	204	204	
5°	464	376	190	76	52	49
15°	874	596	91	5	4	252
25°	1097	651	21	3	3	514
35°	1185	438	3	3	4	729
45°	777	110	1	4	4	586
55°	62	1	2	4	6	117
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	

TEST NUMBER: P1339455

CATALOG NUMBER: P3A05R459730DE010 E3CA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	204.3	204.3	204.3	204.3	204.3	204.3	204.3	204.3	204.3	204.3	204.3
2.5°	331.9	331.0	332.3	323.4	322.9	316.2	314.4	306.7	296.4	291.5	279.8
5°	463.9	459.4	459.4	448.6	445.1	437.4	424.4	408.2	394.8	376.3	356.6
7.5°	565.9	565.0	565.0	555.5	546.6	535.8	518.3	499.8	478.3	450.0	421.3
10°	646.3	647.6	643.6	635.0	622.0	610.3	589.7	567.2	540.7	511.1	472.9
12.5°	747.7	737.9	734.7	715.4	698.8	676.3	651.6	626.0	593.3	556.0	512.9
15°	873.5	860.9	848.3	822.7	794.9	760.3	721.7	684.0	641.8	596.4	542.5
17.5°	985.8	985.8	969.2	928.7	892.8	841.6	789.5	739.2	689.4	629.6	562.3
20°	1062.6	1058.5	1045.9	1016.3	975.4	917.5	849.7	779.2	719.0	651.6	573.5
22.5°	1087.7	1086.8	1087.3	1069.7	1037.0	976.8	893.7	810.6	735.2	657.0	568.1
25°	1096.7	1098.5	1103.0	1096.2	1071.5	1011.4	920.6	825.4	740.1	650.7	547.4
27.5°	1134.0	1130.4	1135.3	1130.8	1103.0	1031.1	926.0	821.8	729.3	627.8	510.6
30°	1163.2	1162.3	1170.8	1166.8	1130.4	1043.7	921.1	808.4	702.8	580.7	452.7
32.5°	1179.8	1180.2	1182.5	1165.9	1112.0	1016.3	896.8	781.0	653.0	519.2	377.2
35°	1185.2	1182.5	1169.9	1129.0	1055.4	953.0	837.1	715.9	585.2	437.9	298.2
37.5°	1161.8	1147.9	1115.6	1054.5	969.2	873.5	760.8	633.7	492.2	345.8	222.3
40°	1072.4	1054.0	1013.2	950.7	871.2	778.7	663.3	530.4	381.7	253.7	156.3
42.5°	938.6	929.2	886.5	832.2	764.8	671.4	552.4	417.7	282.5	175.1	99.7
45°	777.4	765.3	738.3	690.3	637.3	539.4	428.4	299.1	192.7	110.5	49.4
47.5°	582.9	583.8	565.4	529.0	476.9	395.2	293.3	200.7	120.8	57.0	11.2
50°	454.0	447.7	421.7	384.4	323.8	263.2	189.5	126.6	63.8	11.7	0.9
52.5°	251.5	255.5	241.6	229.5	198.1	157.2	111.8	64.2	13.5	1.3	0.9
55°	61.5	65.1	62.4	63.8	66.0	58.8	45.4	12.6	1.3	0.9	0.9
57.5°	1.3	1.3	1.3	1.3	2.2	3.1	3.1	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	0.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9	0.9
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9	0.9
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9
82.5°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.9
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

TEST NUMBER: P1339455

CATALOG NUMBER: P3A05R459730DE010 E3CA301MW

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	204.3	204.3	204.3	204.3	204.3	204.3	204.3	204.3
2.5°	273.9	265.4	249.7	203.0	163.0	131.6	112.7	110.9
5°	339.1	316.2	282.9	190.4	120.4	76.3	55.2	52.1
7.5°	390.7	358.4	307.2	169.8	82.2	39.1	21.6	18.0
10°	433.4	387.6	319.8	145.5	51.6	16.6	9.0	7.6
12.5°	462.6	407.3	322.0	118.6	29.6	8.1	5.8	5.4
15°	481.4	413.6	311.2	91.2	16.6	5.4	4.9	4.5
17.5°	489.1	408.2	290.6	66.0	9.0	4.0	4.0	4.0
20°	485.5	390.7	260.0	46.3	5.8	3.6	3.6	3.6
22.5°	468.4	360.6	221.9	31.0	4.0	3.1	3.1	3.1
25°	434.7	319.8	181.4	20.7	2.7	2.7	3.1	3.1
27.5°	384.4	269.5	138.8	13.9	2.2	2.7	3.1	3.1
30°	321.1	213.3	99.7	9.0	2.2	2.7	2.7	3.1
32.5°	255.1	155.4	65.6	5.4	1.8	2.7	3.1	3.6
35°	185.0	106.0	41.8	2.7	2.2	2.7	3.1	3.6
37.5°	129.8	69.2	24.3	1.8	2.2	2.7	3.6	3.6
40°	84.4	38.6	9.0	1.3	2.2	3.1	3.6	4.0
42.5°	44.0	13.5	1.8	1.3	2.2	3.1	4.0	4.5
45°	11.2	1.8	0.4	1.3	2.7	3.6	4.5	4.5
47.5°	1.3	0.4	0.4	1.8	2.7	4.0	4.5	4.9
50°	0.4	0.9	0.9	1.8	2.7	4.0	4.9	5.4
52.5°	0.9	0.9	0.9	1.8	3.1	4.0	5.4	5.8
55°	0.9	0.9	0.9	1.8	3.1	4.5	5.4	5.8
57.5°	0.9	0.9	0.9	1.8	3.1	4.5	5.4	5.4
60°	0.9	0.9	0.9	1.8	3.1	4.5	5.4	5.4
62.5°	0.9	0.9	1.3	1.8	3.1	4.0	5.4	5.4
65°	0.9	1.3	1.3	1.8	3.1	4.0	4.9	5.4
67.5°	0.9	0.9	1.3	1.8	3.1	4.0	4.9	5.4
70°	0.9	0.9	1.3	1.8	2.7	3.6	4.5	4.9
72.5°	0.9	0.9	1.3	1.8	2.7	3.6	4.0	4.5
75°	0.9	0.9	1.3	1.8	2.2	3.1	4.0	4.0
77.5°	0.9	0.9	1.3	1.3	2.2	2.7	3.6	3.6
80°	0.9	0.9	1.3	1.3	1.8	2.2	2.7	3.1
82.5°	0.9	0.9	0.9	1.3	1.3	1.8	2.2	2.2
85°	0.9	0.9	0.9	0.9	0.9	1.3	1.3	1.3
87.5°	0.4	0.9	0.9	0.9	0.9	0.9	0.9	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)