

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: P1339551

Luminaire Tested: P3A05R459840DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339551
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: P3A05R459840DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

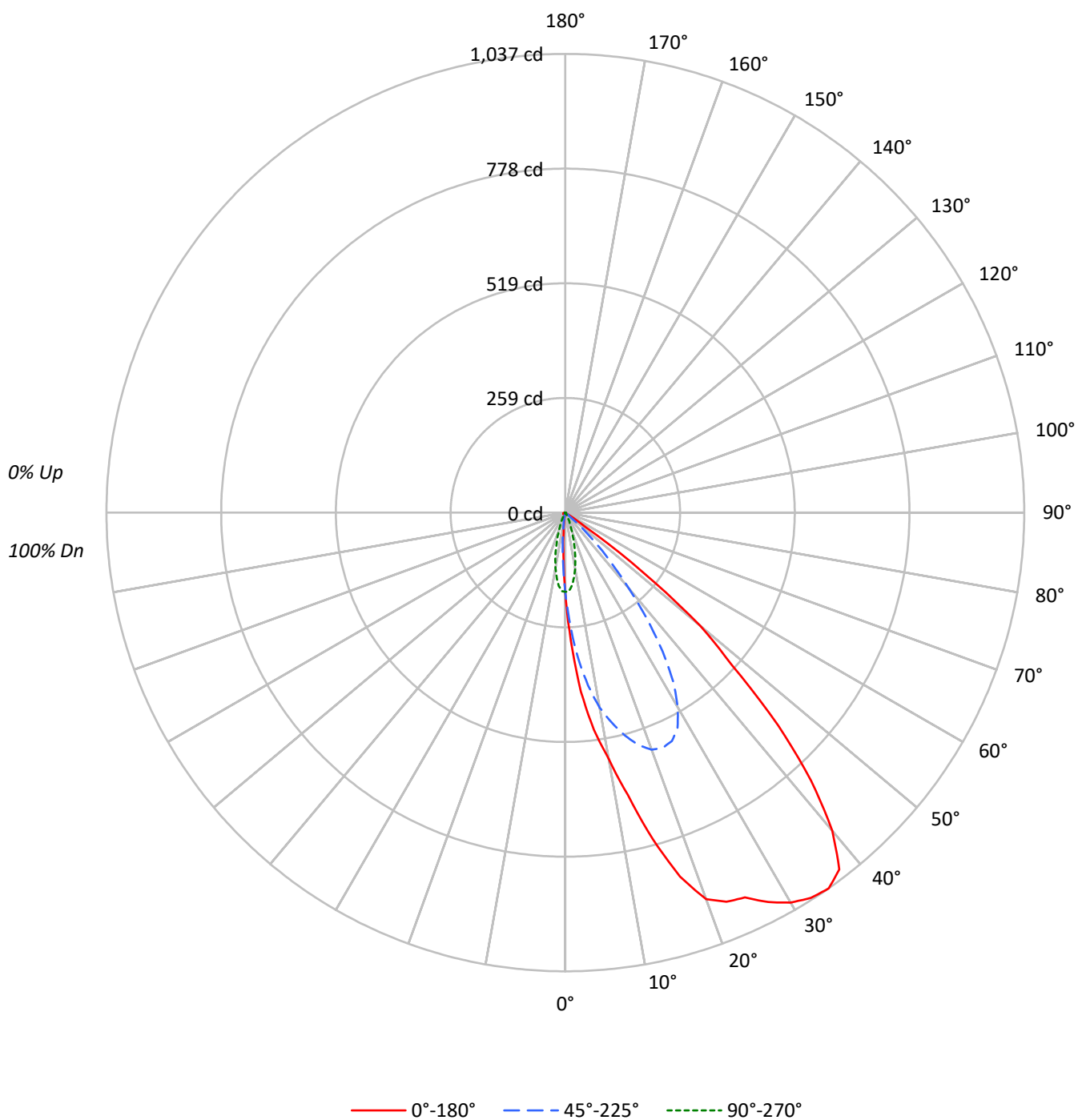
Lumens per Lamp: N/A
Luminaire Lumens: 470.1 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1339551

CATALOG NUMBER: P3A05R459840DE010 E3CA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1339551

CATALOG NUMBER: P3A05R459840DE010 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	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°	39207	39207	39207	39207	39207
5°	89368	72507	36694	14704	10037
10°	125938	99597	28367	3229	1492
15°	173554	118502	18116	1067	885
20°	217019	133082	9451	723	723
25°	232247	137814	4379	581	677
30°	257761	128678	2000	608	709
35°	277677	102580	642	642	830
40°	268675	63576	344	802	1002
45°	210999	29988	372	961	1209
50°	135569	3480	546	1194	1603
55°	20568	306	612	1491	1950
60°	351	351	702	1710	2061
65°	415	415	830	1816	2439
70°	513	513	1026	1988	2757
75°	339	678	1356	2372	2965
80°	505	1010	1515	2526	3536
85°	0	1006	2013	3019	3019

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 210999 cd/sqm

TEST NUMBER: P1339551

CATALOG NUMBER: P3A05R459840DE010 E3CA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.6	4.2
10°-20°	70.8	15.1
20°-30°	124.3	26.5
30°-40°	141.2	30.0
40°-50°	91.4	19.4
50°-60°	18.0	3.8
60°-70°	2.2	0.5
70°-80°	1.8	0.4
80°-90°	0.8	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°	214.7	45.7
0°-40°	355.8	75.7
0°-60°	465.2	99.0
0°-90°	470.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	470.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	179	179	179	179	179	
5°	406	329	167	67	46	43
15°	764	522	80	5	4	220
25°	960	570	18	2	3	450
35°	1037	383	2	2	3	638
45°	680	97	1	3	4	513
55°	54	1	2	4	5	103
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: P1339551

CATALOG NUMBER: P3A05R459840DE010 E3CA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	178.8	178.8	178.8	178.8	178.8	178.8	178.8	178.8	178.8	178.8	178.8
2.5°	290.5	289.7	290.9	283.0	282.6	276.7	275.1	268.5	259.4	255.1	244.9
5°	406.0	402.1	402.1	392.7	389.5	382.8	371.4	357.3	345.5	329.4	312.1
7.5°	495.3	494.5	494.5	486.2	478.4	468.9	453.6	437.5	418.6	393.9	368.7
10°	565.6	566.8	563.3	555.8	544.4	534.2	516.1	496.4	473.2	447.3	413.9
12.5°	654.5	645.8	643.1	626.2	611.6	592.0	570.3	547.9	519.2	486.6	448.9
15°	764.5	753.5	742.5	720.1	695.7	665.5	631.7	598.6	561.7	522.0	474.8
17.5°	862.8	862.8	848.2	812.9	781.4	736.6	691.0	647.0	603.4	551.1	492.1
20°	930.0	926.5	915.4	889.5	853.7	803.0	743.7	682.0	629.3	570.3	501.9
22.5°	952.0	951.2	951.6	936.3	907.6	854.9	782.2	709.5	643.4	575.1	497.2
25°	959.9	961.4	965.4	959.5	937.9	885.2	805.8	722.5	647.8	569.6	479.1
27.5°	992.5	989.3	993.7	989.7	965.4	902.5	810.5	719.3	638.3	549.5	446.9
30°	1018.0	1017.3	1024.7	1021.2	989.3	913.5	806.2	707.5	615.1	508.2	396.2
32.5°	1032.6	1033.0	1034.9	1020.4	973.2	889.5	785.0	683.5	571.5	454.4	330.2
35°	1037.3	1034.9	1023.9	988.2	923.7	834.1	732.7	626.5	512.2	383.2	261.0
37.5°	1016.9	1004.7	976.4	922.9	848.2	764.5	665.9	554.6	430.8	302.7	194.6
40°	938.6	922.5	886.8	832.1	762.5	681.6	580.6	464.2	334.1	222.1	136.8
42.5°	821.5	813.3	775.9	728.3	669.4	587.6	483.5	365.6	247.2	153.3	87.3
45°	680.4	669.8	646.2	604.1	557.8	472.1	375.0	261.8	168.6	96.7	43.2
47.5°	510.2	511.0	494.9	463.0	417.4	345.9	256.7	175.7	105.7	49.9	9.8
50°	397.4	391.9	369.1	336.5	283.4	230.3	165.9	110.8	55.8	10.2	0.8
52.5°	220.1	223.7	211.5	200.9	173.3	137.6	97.9	56.2	11.8	1.2	0.8
55°	53.8	57.0	54.6	55.8	57.8	51.5	39.7	11.0	1.2	0.8	0.8
57.5°	1.2	1.2	1.2	1.2	2.0	2.8	2.8	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

TEST NUMBER: P1339551

CATALOG NUMBER: P3A05R459840DE010 E3CA301MW

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	178.8	178.8	178.8	178.8	178.8	178.8	178.8	178.8
2.5°	239.8	232.3	218.5	177.7	142.7	115.2	98.7	97.1
5°	296.8	276.7	247.6	166.7	105.3	66.8	48.3	45.6
7.5°	342.0	313.7	268.9	148.6	71.9	34.2	18.9	15.7
10°	379.3	339.2	279.9	127.4	45.2	14.5	7.9	6.7
12.5°	404.9	356.5	281.8	103.8	25.9	7.1	5.1	4.7
15°	421.4	362.0	272.4	79.8	14.5	4.7	4.3	3.9
17.5°	428.0	357.3	254.3	57.8	7.9	3.5	3.5	3.5
20°	424.9	342.0	227.6	40.5	5.1	3.1	3.1	3.1
22.5°	410.0	315.6	194.2	27.1	3.5	2.8	2.8	2.8
25°	380.5	279.9	158.8	18.1	2.4	2.4	2.8	2.8
27.5°	336.5	235.8	121.5	12.2	2.0	2.4	2.8	2.8
30°	281.0	186.7	87.3	7.9	2.0	2.4	2.4	2.8
32.5°	223.3	136.0	57.4	4.7	1.6	2.4	2.8	3.1
35°	161.9	92.8	36.6	2.4	2.0	2.4	2.8	3.1
37.5°	113.6	60.5	21.2	1.6	2.0	2.4	3.1	3.1
40°	73.9	33.8	7.9	1.2	2.0	2.8	3.1	3.5
42.5°	38.5	11.8	1.6	1.2	2.0	2.8	3.5	3.9
45°	9.8	1.6	0.4	1.2	2.4	3.1	3.9	3.9
47.5°	1.2	0.4	0.4	1.6	2.4	3.5	3.9	4.3
50°	0.4	0.8	0.8	1.6	2.4	3.5	4.3	4.7
52.5°	0.8	0.8	0.8	1.6	2.8	3.5	4.7	5.1
55°	0.8	0.8	0.8	1.6	2.8	3.9	4.7	5.1
57.5°	0.8	0.8	0.8	1.6	2.8	3.9	4.7	4.7
60°	0.8	0.8	0.8	1.6	2.8	3.9	4.7	4.7
62.5°	0.8	0.8	1.2	1.6	2.8	3.5	4.7	4.7
65°	0.8	1.2	1.2	1.6	2.8	3.5	4.3	4.7
67.5°	0.8	0.8	1.2	1.6	2.8	3.5	4.3	4.7
70°	0.8	0.8	1.2	1.6	2.4	3.1	3.9	4.3
72.5°	0.8	0.8	1.2	1.6	2.4	3.1	3.5	3.9
75°	0.8	0.8	1.2	1.6	2.0	2.8	3.5	3.5
77.5°	0.8	0.8	1.2	1.2	2.0	2.4	3.1	3.1
80°	0.8	0.8	1.2	1.2	1.6	2.0	2.4	2.8
82.5°	0.8	0.8	0.8	1.2	1.2	1.6	2.0	2.0
85°	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2
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)