

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: P1343081

Luminaire Tested: P3A09R459835DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343081
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: P3A09R459835DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

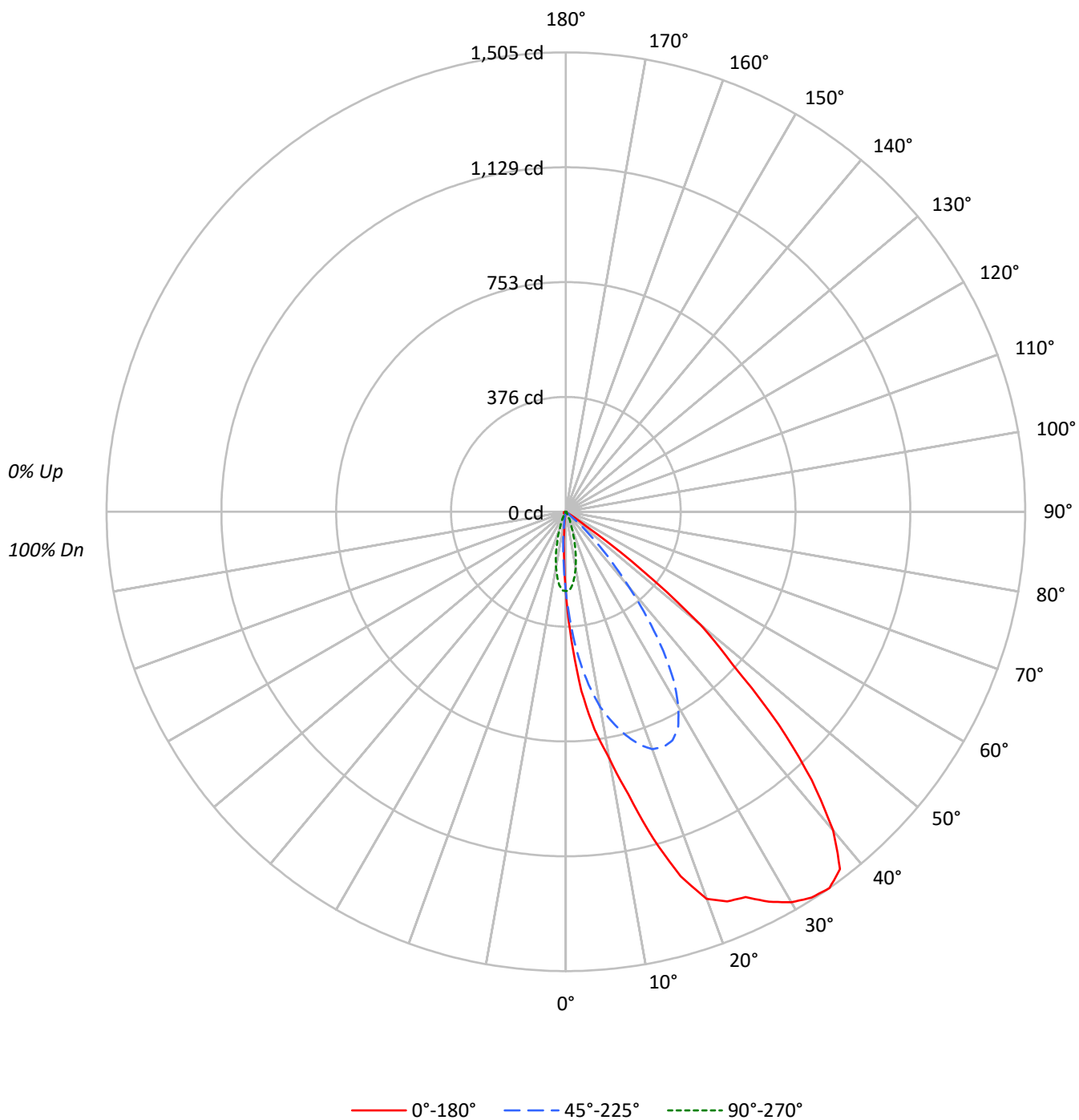
Lumens per Lamp: N/A
Luminaire Lumens: 682.0 lumens
Efficiency: N/A
Efficacy: 62.0 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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: P1343081

CATALOG NUMBER: P3A09R459835DE010 E3CA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1343081

CATALOG NUMBER: P3A09R459835DE010 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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	109	106	104	110	107	104	102		103	101	99		99	97	96		96	94	93
2	105	100	95	91	103	98	93	90		95	91	88		91	88	86		89	86	84
3	99	91	85	80	96	89	84	80		87	82	78		84	80	77		82	79	76
4	92	83	76	71	90	82	76	71		80	74	70		77	73	69		76	72	68
5	86	76	69	64	84	75	68	64		73	67	63		71	66	62		70	65	62
6	81	70	63	57	79	69	62	57		67	61	57		66	60	56		64	60	56
7	75	64	57	52	74	63	57	52		62	56	51		61	55	51		60	55	51
8	71	59	52	47	69	59	52	47		57	51	47		56	51	47		55	50	46
9	66	55	48	43	65	54	47	43		53	47	43		52	47	43		51	46	42
10	62	51	44	39	61	50	44	39		49	43	39		49	43	39		48	43	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	56903	56903	56903	56903	56903
5°	129694	105217	53225	21351	14572
10°	182762	144531	41148	4698	2160
15°	251852	171942	26288	1544	1294
20°	314911	193123	13698	1073	1073
25°	336987	199971	6339	823	968
30°	374032	186738	2887	861	1013
35°	402930	148864	910	910	1231
40°	389873	92259	487	1145	1460
45°	306171	43508	527	1427	1768
50°	196701	5049	785	1740	2320
55°	29858	421	879	2179	2829
60°	482	482	1009	2500	2982
65°	571	571	1193	2646	3528
70°	705	705	1475	2949	4039
75°	508	932	1949	3389	4321
80°	758	1389	2147	3662	5051
85°	0	1510	2768	4277	4277

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 306171 cd/sqm

TEST NUMBER: P1343081

CATALOG NUMBER: P3A09R459835DE010 E3CA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.4	4.2
10°-20°	102.7	15.1
20°-30°	180.4	26.5
30°-40°	204.9	30.0
40°-50°	132.6	19.5
50°-60°	26.0	3.8
60°-70°	3.1	0.5
70°-80°	2.6	0.4
80°-90°	1.2	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°	311.5	45.7
0°-40°	516.3	75.7
0°-60°	675.0	99.0
0°-90°	682.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	682.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	260	260	260	260	260	
5°	589	478	242	97	66	63
15°	1109	757	116	7	6	320
25°	1393	826	26	3	4	653
35°	1505	556	3	3	5	925
45°	987	140	2	5	6	744
55°	78	1	2	6	7	149
65°	1	1	2	5	7	1
75°	1	1	2	4	5	1
85°	0	1	1	2	2	0
90°	0	0	0	0	0	

TEST NUMBER: P1343081

CATALOG NUMBER: P3A09R459835DE010 E3CA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	259.5	259.5	259.5	259.5	259.5	259.5	259.5	259.5	259.5	259.5	259.5
2.5°	421.5	420.4	422.1	410.7	410.1	401.5	399.3	389.6	376.4	370.2	355.3
5°	589.2	583.5	583.5	569.8	565.2	555.5	539.0	518.5	501.3	478.0	452.9
7.5°	718.7	717.5	717.5	705.5	694.1	680.4	658.2	634.8	607.4	571.5	535.0
10°	820.8	822.5	817.3	806.5	790.0	775.1	748.9	720.4	686.7	649.1	600.6
12.5°	949.7	937.1	933.1	908.6	887.5	859.0	827.6	795.1	753.4	706.1	651.4
15°	1109.4	1093.4	1077.4	1044.9	1009.5	965.6	916.6	868.7	815.0	757.4	689.0
17.5°	1251.9	1251.9	1230.8	1179.5	1133.9	1068.9	1002.7	938.8	875.5	799.6	714.1
20°	1349.5	1344.3	1328.4	1290.7	1238.8	1165.2	1079.1	989.6	913.1	827.6	728.4
22.5°	1381.4	1380.3	1380.8	1358.6	1317.0	1240.5	1135.0	1029.5	933.7	834.4	721.5
25°	1392.8	1395.1	1400.8	1392.3	1360.9	1284.5	1169.2	1048.3	940.0	826.5	695.3
27.5°	1440.2	1435.6	1441.9	1436.2	1400.8	1309.6	1176.1	1043.8	926.3	797.4	648.5
30°	1477.2	1476.1	1486.9	1481.8	1435.6	1325.5	1169.8	1026.7	892.6	737.5	574.9
32.5°	1498.3	1498.9	1501.8	1480.7	1412.2	1290.7	1139.0	991.9	829.3	659.3	479.1
35°	1505.2	1501.8	1485.8	1433.9	1340.4	1210.3	1063.2	909.2	743.2	556.1	378.7
37.5°	1475.5	1457.8	1416.8	1339.2	1230.8	1109.4	966.2	804.8	625.1	439.2	282.3
40°	1362.0	1338.6	1286.7	1207.5	1106.5	989.0	842.4	673.6	484.8	322.3	198.5
42.5°	1192.1	1180.1	1125.9	1056.9	971.3	852.7	701.5	530.4	358.8	222.4	126.6
45°	987.3	971.9	937.7	876.6	809.3	685.0	544.1	379.9	244.7	140.3	62.7
47.5°	740.3	741.5	718.1	671.9	605.7	501.9	372.4	255.0	153.4	72.4	14.3
50°	576.6	568.7	535.6	488.2	411.2	334.2	240.7	160.8	81.0	14.8	1.1
52.5°	319.4	324.5	306.9	291.5	251.5	199.6	142.0	81.6	17.1	1.7	1.1
55°	78.1	82.7	79.3	81.0	83.8	74.7	57.6	16.0	1.7	1.1	1.1
57.5°	1.7	1.7	1.7	1.7	2.9	4.0	4.0	1.1	1.1	1.1	1.1
60°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
62.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
65°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
67.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
70°	1.1	1.1	1.1	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
72.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.1	1.1
75°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.1	1.1
77.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.1
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.1
82.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
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: P1343081

CATALOG NUMBER: P3A09R459835DE010 E3CA301MW

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	259.5	259.5	259.5	259.5	259.5	259.5	259.5	259.5
2.5°	347.9	337.1	317.1	257.8	207.0	167.1	143.2	140.9
5°	430.6	401.5	359.3	241.8	152.9	97.0	70.2	66.2
7.5°	496.2	455.1	390.1	215.6	104.4	49.6	27.4	22.8
10°	550.4	492.2	406.1	184.8	65.6	21.1	11.4	9.7
12.5°	587.5	517.3	408.9	150.6	37.6	10.3	7.4	6.8
15°	611.4	525.3	395.3	115.8	21.1	6.8	6.3	5.7
17.5°	621.1	518.5	369.0	83.8	11.4	5.1	5.1	5.1
20°	616.6	496.2	330.2	58.7	7.4	4.6	4.6	4.6
22.5°	594.9	458.0	281.8	39.4	5.1	4.0	4.0	4.0
25°	552.1	406.1	230.4	26.2	3.4	3.4	4.0	4.0
27.5°	488.2	342.2	176.2	17.7	2.9	3.4	4.0	4.0
30°	407.8	270.9	126.6	11.4	2.9	3.4	3.4	4.0
32.5°	324.0	197.3	83.3	6.8	2.3	3.4	4.0	4.6
35°	235.0	134.6	53.0	3.4	2.9	3.4	4.0	4.6
37.5°	164.8	87.8	30.8	2.3	2.9	3.4	4.6	4.6
40°	107.2	49.1	11.4	1.7	2.9	4.0	4.6	5.1
42.5°	55.9	17.1	2.3	1.7	2.9	4.0	5.1	5.7
45°	14.3	2.3	0.6	1.7	3.4	4.6	5.7	5.7
47.5°	1.7	0.6	0.6	2.3	3.4	5.1	5.7	6.3
50°	0.6	1.1	1.1	2.3	3.4	5.1	6.3	6.8
52.5°	1.1	1.1	1.1	2.3	4.0	5.1	6.8	7.4
55°	1.1	1.1	1.1	2.3	4.0	5.7	6.8	7.4
57.5°	1.1	1.1	1.1	2.3	4.0	5.7	6.8	6.8
60°	1.1	1.1	1.1	2.3	4.0	5.7	6.8	6.8
62.5°	1.1	1.1	1.7	2.3	4.0	5.1	6.8	6.8
65°	1.1	1.7	1.7	2.3	4.0	5.1	6.3	6.8
67.5°	1.1	1.1	1.7	2.3	4.0	5.1	6.3	6.8
70°	1.1	1.1	1.7	2.3	3.4	4.6	5.7	6.3
72.5°	1.1	1.1	1.7	2.3	3.4	4.6	5.1	5.7
75°	1.1	1.1	1.7	2.3	2.9	4.0	5.1	5.1
77.5°	1.1	1.1	1.7	1.7	2.9	3.4	4.6	4.6
80°	1.1	1.1	1.7	1.7	2.3	2.9	3.4	4.0
82.5°	1.1	1.1	1.1	1.7	1.7	2.3	2.9	2.9
85°	1.1	1.1	1.1	1.1	1.1	1.7	1.7	1.7
87.5°	0.6	1.1	1.1	1.1	1.1	1.1	1.1	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)