

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: P1338927

Luminaire Tested: P3A05R409727DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1338927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R409727DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

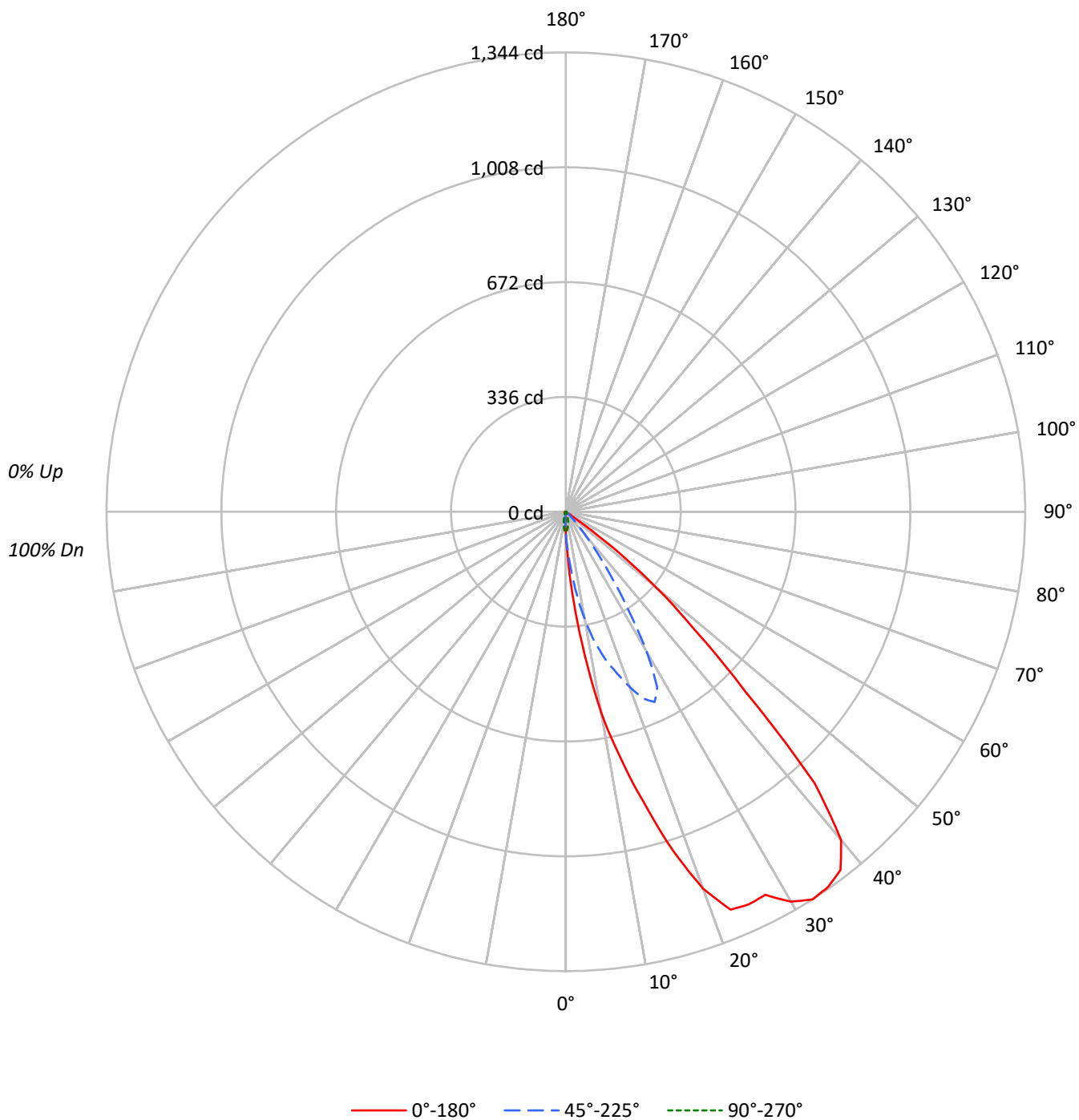
Lumens per Lamp: N/A
Luminaire Lumens: 496.0 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.41 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	94	90	95	91	88	92	89	86	89	86	84	82		
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	77	71	90	82	76	71	80	74	70	78	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	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40		
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12872	12872	12872	12872	12872
5°	58045	37002	11534	4424	3236
10°	133108	71497	8127	1581	1202
15°	199751	101453	5040	863	772
20°	273514	127178	2940	490	583
25°	306623	148581	1524	411	508
30°	333520	119943	633	329	532
35°	358440	61382	214	455	669
40°	358557	24474	115	487	830
45°	228923	8187	248	775	1178
50°	118853	989	443	989	1433
55°	10246	153	497	1300	1759
60°	351	175	570	1491	2017
65°	415	208	882	1505	2179
70°	256	256	1090	1603	2180
75°	339	339	1101	1779	2457
80°	505	505	1642	1642	2147
85°	0	1006	3271	2013	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 228923 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.4	2.3
10°-20°	67.1	13.5
20°-30°	147.0	29.6
30°-40°	167.5	33.8
40°-50°	88.4	17.8
50°-60°	10.4	2.1
60°-70°	1.9	0.4
70°-80°	1.5	0.3
80°-90°	0.7	0.1
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°	225.6	45.5
0°-40°	393.1	79.3
0°-60°	491.9	99.2
0°-90°	496.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	496.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	59	59	59	59	59	
5°	264	168	52	20	15	36
15°	880	447	22	4	3	259
25°	1267	614	6	2	2	584
35°	1339	229	1	2	2	830
45°	738	26	1	2	4	595
55°	27	0	1	3	5	83
65°	1	0	2	3	4	1
75°	0	0	1	2	3	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°	67.5°
0°	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
2.5°	130.8	130.8	130.4	126.6	126.2	125.8	119.1	117.4	109.4	104.0	79.2
5°	263.7	257.8	257.4	250.7	239.4	224.3	214.6	199.1	184.0	168.1	97.7
7.5°	420.0	425.1	411.2	404.1	379.0	360.9	333.3	309.0	275.0	243.1	112.8
10°	597.8	589.0	575.2	561.3	534.1	501.8	460.7	417.5	368.5	321.1	121.2
12.5°	736.6	725.2	716.8	698.0	671.2	629.7	580.6	522.8	457.8	389.4	120.7
15°	879.9	868.6	849.7	833.0	793.1	746.6	693.4	617.1	537.4	446.9	111.9
17.5°	1037.5	1022.9	1001.9	976.3	937.8	886.2	818.7	725.7	612.9	493.8	96.0
20°	1172.1	1163.3	1142.3	1112.2	1074.4	1024.1	946.2	843.0	705.5	545.0	76.3
22.5°	1260.1	1252.2	1237.9	1211.5	1183.0	1129.4	1058.1	944.9	783.1	591.5	57.9
25°	1267.3	1263.9	1260.1	1251.3	1234.2	1196.0	1126.4	1004.4	831.3	614.1	42.8
27.5°	1263.5	1262.2	1261.4	1256.8	1245.5	1207.7	1136.5	1013.2	825.0	578.9	31.4
30°	1317.2	1313.4	1311.3	1296.2	1266.4	1208.2	1115.1	965.9	733.2	473.7	22.6
32.5°	1344.4	1343.6	1341.5	1326.8	1284.9	1209.0	1079.0	851.4	581.4	342.1	15.5
35°	1339.0	1334.8	1327.2	1300.0	1241.7	1146.5	962.5	680.0	419.6	229.3	10.1
37.5°	1320.5	1310.9	1296.2	1247.2	1169.6	1039.6	780.6	500.5	285.5	148.4	5.9
40°	1252.6	1239.6	1216.5	1156.6	1054.7	856.9	577.3	338.3	187.4	85.5	1.7
42.5°	1077.0	1060.2	1043.4	976.3	859.8	638.9	379.8	209.2	106.9	47.0	0.4
45°	738.2	717.3	694.2	645.6	552.1	386.9	226.0	117.8	55.3	26.4	0.4
47.5°	512.7	503.1	462.8	400.8	307.3	205.0	117.0	57.9	29.3	12.2	0.4
50°	348.4	337.5	290.5	230.6	163.5	98.1	53.7	28.9	13.0	2.9	0.4
52.5°	182.8	169.4	139.6	106.5	66.2	41.1	23.5	12.6	3.8	0.4	0.4
55°	26.8	24.7	20.1	16.3	14.7	11.3	6.7	2.9	0.4	0.4	0.8
57.5°	0.8	0.8	0.8	0.8	1.3	1.3	0.8	0.4	0.4	0.4	0.8
60°	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.8
62.5°	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.8
65°	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.8
67.5°	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.8	1.3
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.3
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.3
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	1.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.8
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):

	90°	112.5°	135°	157.5°	180°
0°	58.7	58.7	58.7	58.7	58.7
2.5°	57.9	42.8	33.1	28.5	28.1
5°	52.4	30.6	20.1	15.5	14.7
7.5°	44.4	21.4	11.7	8.4	8.0
10°	36.5	14.7	7.1	5.9	5.4
12.5°	28.9	9.6	5.0	4.6	4.2
15°	22.2	6.3	3.8	3.4	3.4
17.5°	16.8	4.2	2.9	2.9	2.9
20°	12.6	2.9	2.1	2.5	2.5
22.5°	8.8	2.1	1.7	2.1	2.1
25°	6.3	1.7	1.7	2.1	2.1
27.5°	4.2	1.3	1.3	1.7	2.1
30°	2.5	0.8	1.3	1.7	2.1
32.5°	1.3	0.8	1.3	2.1	2.1
35°	0.8	1.3	1.7	2.1	2.5
37.5°	0.4	1.3	1.7	2.5	2.5
40°	0.4	1.3	1.7	2.5	2.9
42.5°	0.8	1.7	2.1	2.9	3.4
45°	0.8	1.7	2.5	3.4	3.8
47.5°	0.8	1.7	2.9	3.8	3.8
50°	1.3	2.1	2.9	3.8	4.2
52.5°	1.3	2.1	2.9	4.2	4.6
55°	1.3	2.1	3.4	4.2	4.6
57.5°	1.3	2.5	3.4	4.2	4.6
60°	1.3	2.1	3.4	4.2	4.6
62.5°	1.7	2.1	2.9	4.2	4.2
65°	1.7	2.1	2.9	4.2	4.2
67.5°	1.7	2.1	2.9	3.8	3.8
70°	1.7	2.1	2.5	3.4	3.4
72.5°	1.7	2.1	2.5	2.9	3.4
75°	1.3	1.7	2.1	2.5	2.9
77.5°	1.3	1.7	1.7	2.5	2.5
80°	1.3	1.3	1.3	1.7	1.7
82.5°	1.3	1.3	0.8	1.3	1.3
85°	1.3	0.8	0.8	0.8	0.8
87.5°	0.8	0.8	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)