

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: P1339007

Luminaire Tested: P3A05R409830DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339007
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: P3A05R409830DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

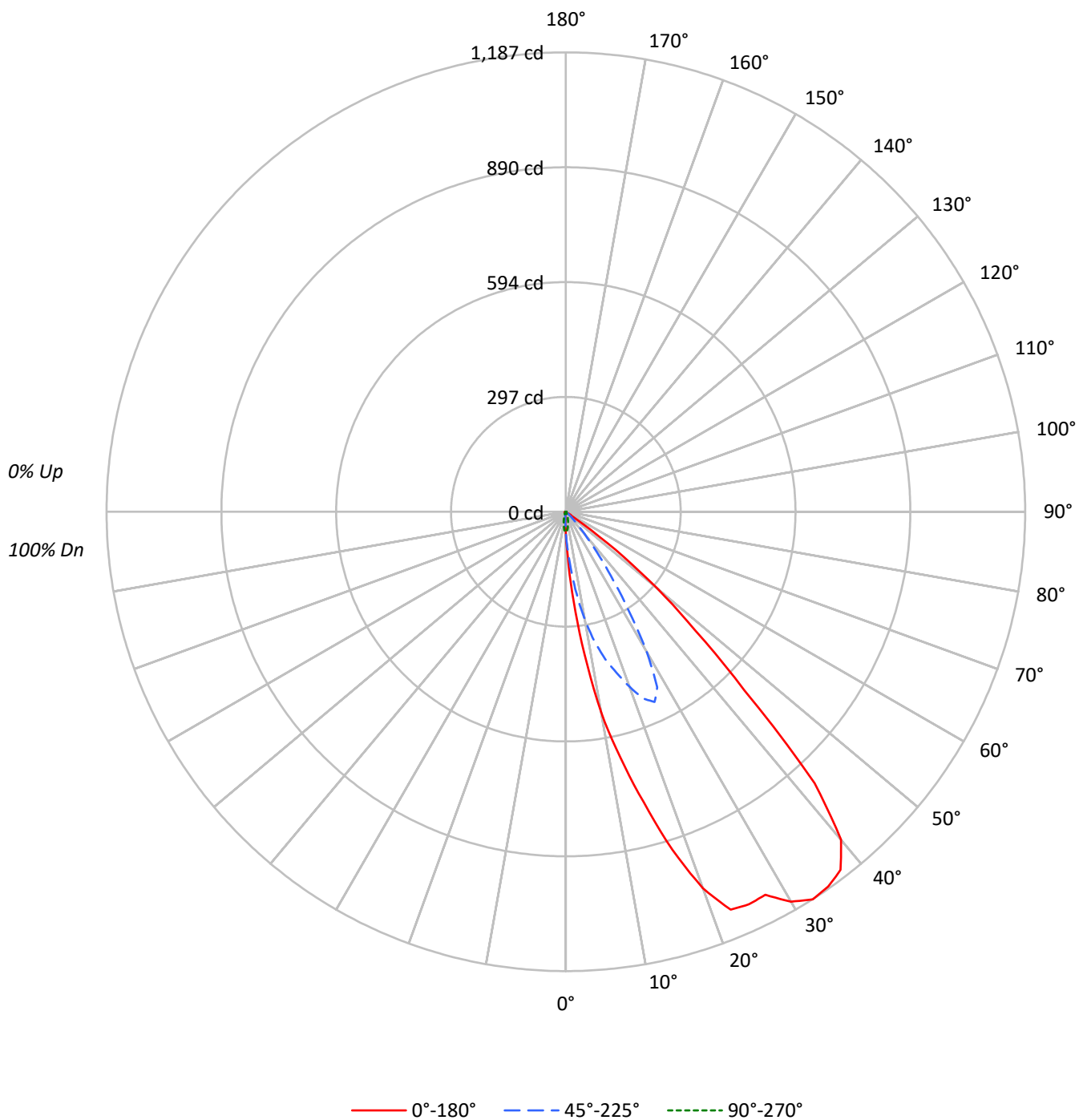
Lumens per Lamp: N/A
Luminaire Lumens: 438.0 lumens
Efficiency: N/A
Efficacy: 60.8 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.41 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	51	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°	11359	11359	11359	11359	11359
5°	51244	32666	10191	3918	2862
10°	117544	63147	7170	1403	1069
15°	176391	89581	4450	749	681
20°	241544	112290	2590	443	513
25°	270766	131209	1355	363	460
30°	294501	105915	557	279	481
35°	316519	54208	187	402	589
40°	316622	21612	115	429	744
45°	202161	7226	217	682	1023
50°	104935	887	375	887	1262
55°	9061	153	421	1147	1567
60°	307	175	482	1316	1798
65°	363	208	778	1349	1920
70°	256	256	962	1410	1923
75°	339	339	932	1610	2203
80°	505	505	1389	1389	1894
85°	0	1006	2768	1761	1761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 202161 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.1	2.3
10°-20°	59.3	13.5
20°-30°	129.8	29.6
30°-40°	147.9	33.8
40°-50°	78.0	17.8
50°-60°	9.2	2.1
60°-70°	1.7	0.4
70°-80°	1.4	0.3
80°-90°	0.6	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°	199.2	45.5
0°-40°	347.1	79.2
0°-60°	434.4	99.2
0°-90°	438.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	438.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	52	52	52	52	52	
5°	233	148	46	18	13	31
15°	777	395	20	3	3	229
25°	1119	542	6	2	2	516
35°	1182	202	1	2	2	733
45°	652	23	1	2	3	526
55°	24	0	1	3	4	74
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°	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
2.5°	115.5	115.5	115.1	111.8	111.4	111.1	105.1	103.7	96.6	91.8	70.0
5°	232.8	227.7	227.3	221.4	211.4	198.1	189.5	175.8	162.5	148.4	86.3
7.5°	370.9	375.4	363.2	356.9	334.7	318.7	294.3	272.8	242.8	214.7	99.6
10°	527.9	520.1	507.9	495.7	471.6	443.1	406.8	368.7	325.4	283.6	107.0
12.5°	650.4	640.4	633.0	616.4	592.7	556.0	512.7	461.6	404.2	343.9	106.6
15°	777.0	767.0	750.4	735.6	700.4	659.3	612.3	544.9	474.6	394.6	98.8
17.5°	916.2	903.3	884.8	862.2	828.1	782.6	723.0	640.8	541.2	436.1	84.8
20°	1035.1	1027.3	1008.8	982.1	948.8	904.4	835.5	744.5	623.0	481.2	67.4
22.5°	1112.8	1105.8	1093.2	1069.8	1044.7	997.3	934.4	834.4	691.5	522.3	51.1
25°	1119.1	1116.1	1112.8	1105.0	1089.8	1056.2	994.7	887.0	734.1	542.3	37.8
27.5°	1115.8	1114.6	1113.9	1109.8	1099.8	1066.5	1003.6	894.7	728.5	511.2	27.8
30°	1163.1	1159.8	1158.0	1144.6	1118.3	1066.9	984.7	852.9	647.5	418.3	20.0
32.5°	1187.2	1186.5	1184.6	1171.7	1134.6	1067.6	952.9	751.9	513.5	302.1	13.7
35°	1182.4	1178.7	1172.0	1148.0	1096.5	1012.5	850.0	600.4	370.6	202.5	8.9
37.5°	1166.1	1157.6	1144.6	1101.3	1032.8	918.1	689.3	442.0	252.1	131.0	5.2
40°	1106.1	1094.7	1074.3	1021.4	931.4	756.7	509.8	298.7	165.5	75.5	1.5
42.5°	951.0	936.2	921.4	862.2	759.3	564.2	335.4	184.7	94.4	41.5	0.4
45°	651.9	633.4	613.0	570.1	487.5	341.7	199.5	104.0	48.9	23.3	0.4
47.5°	452.7	444.2	408.7	353.9	271.3	181.0	103.3	51.1	25.9	10.7	0.4
50°	307.6	298.0	256.5	203.6	144.4	86.6	47.4	25.5	11.5	2.6	0.4
52.5°	161.4	149.6	123.3	94.0	58.5	36.3	20.7	11.1	3.3	0.4	0.4
55°	23.7	21.8	17.8	14.4	13.0	10.0	5.9	2.6	0.4	0.4	0.7
57.5°	0.7	0.7	0.7	0.7	1.1	1.1	0.7	0.4	0.4	0.4	0.7
60°	0.7	0.7	0.7	0.7	0.7	0.4	0.4	0.4	0.4	0.4	0.7
62.5°	0.7	0.7	0.7	0.7	0.7	0.4	0.4	0.4	0.4	0.4	0.7
65°	0.7	0.7	0.7	0.7	0.7	0.4	0.4	0.4	0.4	0.4	0.7
67.5°	0.7	0.7	0.7	0.7	0.4	0.4	0.4	0.4	0.4	0.7	1.1
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	1.1
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	1.1
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.7
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°	51.8	51.8	51.8	51.8	51.8
2.5°	51.1	37.8	29.2	25.2	24.8
5°	46.3	27.0	17.8	13.7	13.0
7.5°	39.2	18.9	10.4	7.4	7.0
10°	32.2	13.0	6.3	5.2	4.8
12.5°	25.5	8.5	4.4	4.1	3.7
15°	19.6	5.6	3.3	3.0	3.0
17.5°	14.8	3.7	2.6	2.6	2.6
20°	11.1	2.6	1.9	2.2	2.2
22.5°	7.8	1.9	1.5	1.9	1.9
25°	5.6	1.5	1.5	1.9	1.9
27.5°	3.7	1.1	1.1	1.5	1.9
30°	2.2	0.7	1.1	1.5	1.9
32.5°	1.1	0.7	1.1	1.9	1.9
35°	0.7	1.1	1.5	1.9	2.2
37.5°	0.4	1.1	1.5	2.2	2.2
40°	0.4	1.1	1.5	2.2	2.6
42.5°	0.7	1.5	1.9	2.6	3.0
45°	0.7	1.5	2.2	3.0	3.3
47.5°	0.7	1.5	2.6	3.3	3.3
50°	1.1	1.9	2.6	3.3	3.7
52.5°	1.1	1.9	2.6	3.7	4.1
55°	1.1	1.9	3.0	3.7	4.1
57.5°	1.1	2.2	3.0	3.7	4.1
60°	1.1	1.9	3.0	3.7	4.1
62.5°	1.5	1.9	2.6	3.7	3.7
65°	1.5	1.9	2.6	3.7	3.7
67.5°	1.5	1.9	2.6	3.3	3.3
70°	1.5	1.9	2.2	3.0	3.0
72.5°	1.5	1.9	2.2	2.6	3.0
75°	1.1	1.5	1.9	2.2	2.6
77.5°	1.1	1.5	1.5	2.2	2.2
80°	1.1	1.1	1.1	1.5	1.5
82.5°	1.1	1.1	0.7	1.1	1.1
85°	1.1	0.7	0.7	0.7	0.7
87.5°	0.7	0.7	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)