

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: P1345564

Luminaire Tested: P3A13R359827DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345564
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-63)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R359827DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R35 optic, 2700K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

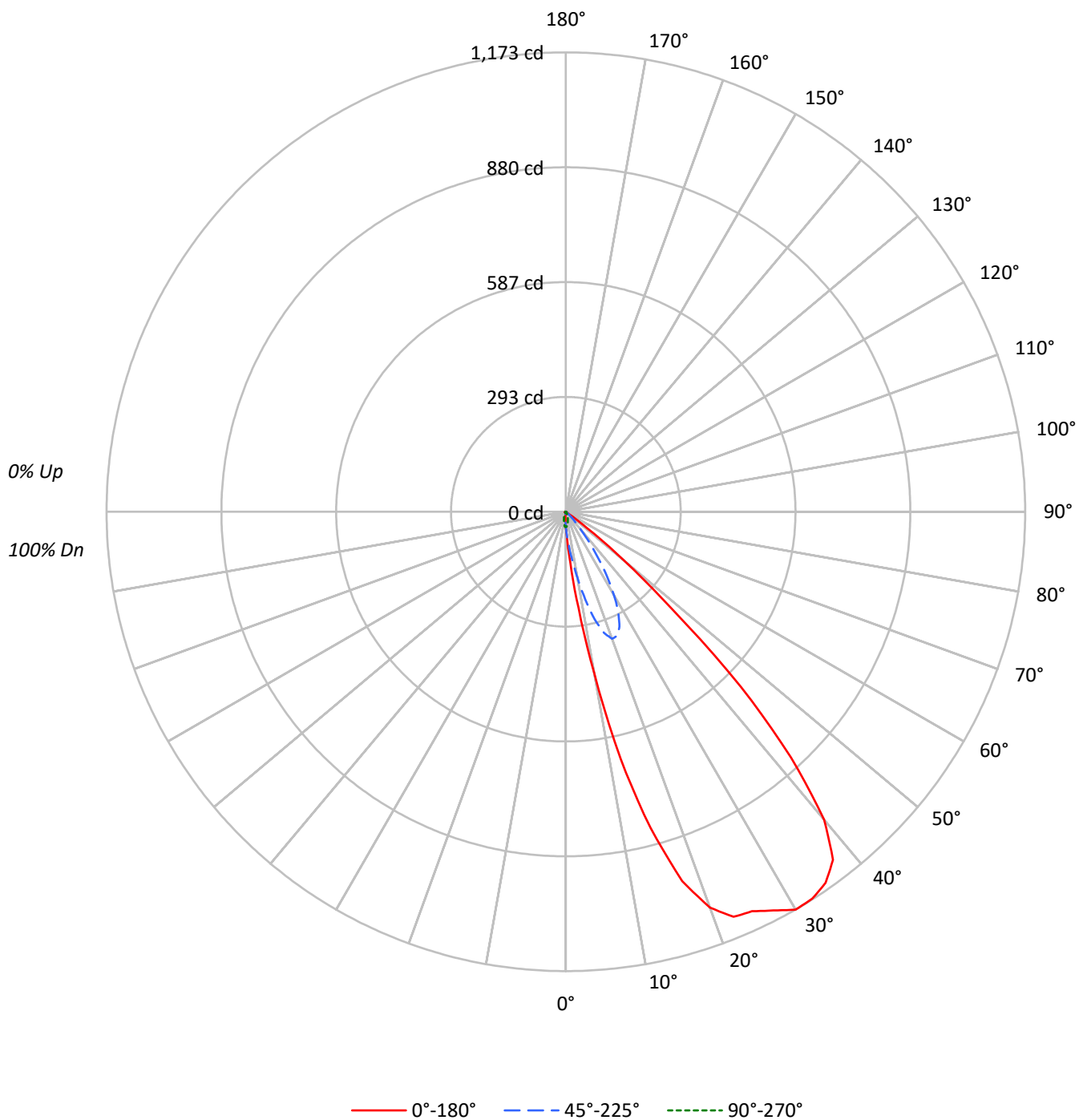
Lumens per Lamp: N/A
Luminaire Lumens: 369.0 lumens
Efficiency: N/A
Efficacy: 25.4 lumens/watt
Spacing Criteria (0/90/45): 2.45 / 0.5 / 1.25
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	93	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	84	84	83
3	99	91	85	81	97	90	84	80	87	83	79	85	81	77	82	79	76	76	76	74
4	92	83	77	72	91	82	76	71	80	75	71	78	73	70	76	72	69	69	69	67
5	86	76	69	64	85	75	69	64	74	68	63	72	67	63	70	66	62	62	62	61
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	56	56	55
7	75	64	57	52	74	64	57	52	62	56	52	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	46	42	51	46	42	42	42	41
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8508	8508	8508	8508	8508
5°	28946	18820	7946	3346	2487
10°	93162	38120	6279	1247	802
15°	189785	64677	4427	454	295
20°	250972	80530	2870	163	163
25°	272314	78295	1597	73	169
30°	297058	62389	658	76	177
35°	309559	38842	187	80	187
40°	293750	16975	86	200	286
45°	196082	6791	93	310	527
50°	65772	1126	239	443	682
55°	3670	115	268	650	879
60°	307	132	439	746	1009
65°	363	156	519	882	1193
70°	192	192	641	1090	1282
75°	254	254	847	1101	1440
80°	0	379	1263	1263	1263
85°	0	755	2516	755	1761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 196082 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.7	1.8
10°-20°	53.0	14.4
20°-30°	111.9	30.3
30°-40°	126.9	34.4
40°-50°	62.5	16.9
50°-60°	5.4	1.5
60°-70°	1.1	0.3
70°-80°	1.0	0.3
80°-90°	0.5	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°	171.6	46.5
0°-40°	298.5	80.9
0°-60°	366.4	99.3
0°-90°	369.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	369.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	39	39	39	39	39	
5°	132	86	36	15	11	22
15°	836	285	20	2	1	238
25°	1126	324	7	0	1	524
35°	1156	145	1	0	1	713
45°	632	22	0	1	2	467
55°	10	0	1	2	2	38
65°	1	0	1	2	2	1
75°	0	0	1	1	2	0
85°	0	0	1	0	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°	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
2.5°	67.2	68.9	68.2	67.9	67.6	66.2	63.3	62.9	60.0	58.0	48.0
5°	131.5	128.9	129.5	125.9	121.2	114.6	110.3	101.0	93.4	85.5	56.0
7.5°	247.8	244.1	237.2	226.6	215.6	201.4	179.9	162.6	142.8	123.9	62.3
10°	418.4	416.4	407.4	380.3	356.4	318.3	282.5	244.8	207.7	171.2	66.6
12.5°	646.2	632.7	616.4	580.3	533.3	485.6	415.0	349.8	290.5	229.5	66.9
15°	836.0	827.4	804.6	757.5	700.9	632.0	548.2	460.4	371.0	284.9	63.6
17.5°	988.7	975.5	946.0	900.0	834.7	745.3	647.2	540.2	431.3	324.3	58.0
20°	1075.5	1068.6	1046.0	1000.0	928.8	831.1	719.4	594.9	469.0	345.1	50.7
22.5°	1119.3	1114.3	1097.7	1061.0	994.4	896.0	768.1	623.4	480.0	342.8	43.1
25°	1125.5	1124.2	1110.0	1082.2	1026.5	929.1	789.3	628.7	471.0	323.6	35.8
27.5°	1147.4	1142.8	1125.9	1098.1	1042.1	934.8	782.1	610.5	442.2	289.8	29.8
30°	1173.2	1169.9	1153.0	1124.2	1058.0	929.5	756.2	570.1	396.2	246.4	22.2
32.5°	1171.3	1169.9	1155.7	1125.2	1046.7	898.3	710.2	509.4	333.6	194.4	13.9
35°	1156.4	1151.7	1133.8	1086.8	982.5	818.2	622.7	427.3	264.0	145.1	8.9
37.5°	1120.6	1110.6	1080.5	1000.7	867.5	694.6	507.1	329.9	186.8	97.1	5.6
40°	1026.2	1013.6	953.0	856.6	717.1	547.2	377.3	226.9	123.2	59.3	2.3
42.5°	851.3	825.8	765.2	666.1	535.3	386.9	247.8	147.1	72.5	35.8	0.7
45°	632.3	612.8	549.2	459.4	350.8	248.1	150.1	79.5	40.1	21.9	0.3
47.5°	368.3	356.4	323.6	264.7	193.8	130.2	76.8	42.7	23.5	10.6	0.3
50°	192.8	177.9	153.0	115.9	85.5	60.0	37.4	22.9	11.6	3.3	0.3
52.5°	67.6	66.6	60.6	45.7	37.1	26.8	18.2	9.9	3.3	0.7	0.3
55°	9.6	9.6	8.9	9.9	10.6	9.6	6.3	2.6	0.7	0.3	0.3
57.5°	0.7	0.7	0.7	1.0	1.3	1.3	1.0	0.3	0.3	0.3	0.7
60°	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7
62.5°	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7
65°	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7
67.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.0
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.0
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.0
77.5°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	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°	38.8	38.8	38.8	38.8	38.8
2.5°	38.4	30.8	24.5	21.5	20.5
5°	36.1	23.2	15.2	11.9	11.3
7.5°	32.1	16.6	9.3	6.6	6.3
10°	28.2	11.9	5.6	4.0	3.6
12.5°	23.5	8.3	3.6	2.3	2.0
15°	19.5	5.6	2.0	1.7	1.3
17.5°	15.6	3.6	1.3	1.0	1.3
20°	12.3	2.3	0.7	0.7	0.7
22.5°	9.3	1.3	0.7	0.7	0.7
25°	6.6	0.7	0.3	0.3	0.7
27.5°	4.6	0.3	0.3	0.3	0.7
30°	2.6	0.3	0.3	0.3	0.7
32.5°	1.3	0.3	0.3	0.7	0.7
35°	0.7	0.3	0.3	0.7	0.7
37.5°	0.3	0.3	0.3	0.7	1.0
40°	0.3	0.3	0.7	1.0	1.0
42.5°	0.3	0.3	0.7	1.0	1.3
45°	0.3	0.7	1.0	1.3	1.7
47.5°	0.7	0.7	1.3	1.7	2.0
50°	0.7	1.0	1.3	2.0	2.0
52.5°	0.7	1.0	1.7	2.0	2.3
55°	0.7	1.3	1.7	2.3	2.3
57.5°	1.0	1.3	1.7	2.3	2.3
60°	1.0	1.3	1.7	2.3	2.3
62.5°	1.0	1.3	1.7	2.3	2.3
65°	1.0	1.3	1.7	2.3	2.3
67.5°	1.0	1.3	1.7	2.0	2.3
70°	1.0	1.3	1.7	2.0	2.0
72.5°	1.3	1.3	1.7	2.0	2.0
75°	1.0	1.3	1.3	1.7	1.7
77.5°	1.0	1.0	1.0	1.3	1.3
80°	1.0	1.0	1.0	1.0	1.0
82.5°	1.0	0.7	0.7	1.0	1.0
85°	1.0	0.7	0.3	0.7	0.7
87.5°	0.7	0.7	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)