

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: P1337967

Luminaire Tested: P3A05R309827DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337967
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-62)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R309827DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

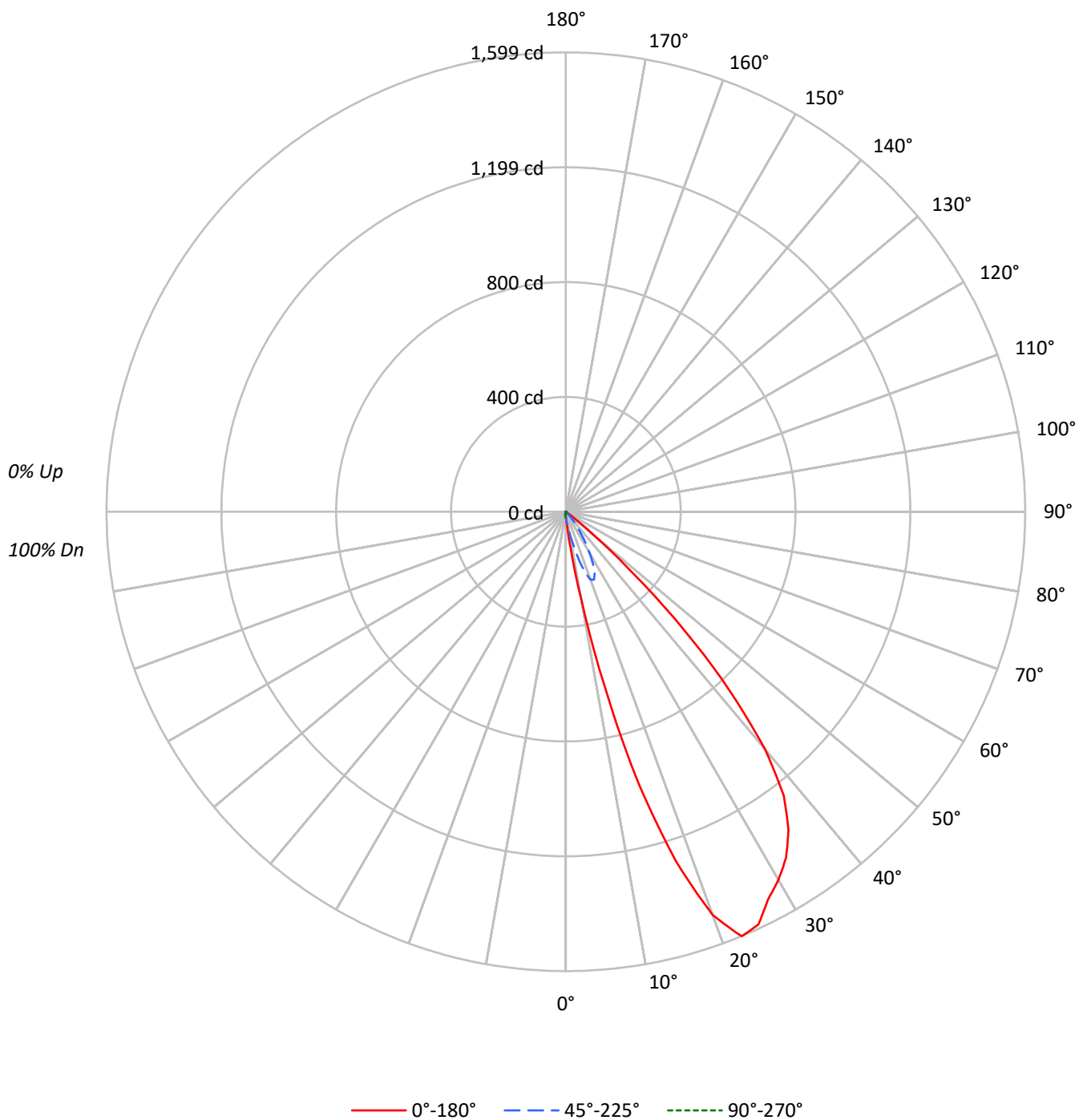
Lumens per Lamp: N/A
Luminaire Lumens: 376.9 lumens
Efficiency: N/A
Efficacy: 52.4 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	93	93	92
2	106	100	95	92	104	98	94	90	95	92	88	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	77	77	75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	69	69	68
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	63	63	61
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	57	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	52	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	47	47	45
9	67	55	48	43	65	55	48	43	53	47	43	52	47	43	52	46	43	43	43	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°	3925	3925	3925	3925	3925
5°	11820	7880	3720	1673	1365
10°	68491	16722	2917	757	534
15°	222816	37934	2043	159	68
20°	348654	58688	1283	0	0
25°	383587	57342	677	0	0
30°	374640	41348	253	0	0
35°	361599	23503	80	0	0
40°	308349	9962	0	0	0
45°	180980	3752	93	0	93
50°	43939	716	102	102	341
55°	3823	0	268	382	535
60°	132	0	307	439	746
65°	156	156	519	519	882
70°	192	192	641	641	898
75°	0	254	847	847	847
80°	0	379	1263	884	884
85°	0	755	2516	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 180980 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.3	0.9
10°-20°	51.8	13.7
20°-30°	131.7	34.9
30°-40°	131.2	34.8
40°-50°	53.2	14.1
50°-60°	3.7	1.0
60°-70°	0.8	0.2
70°-80°	0.8	0.2
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°	186.8	49.6
0°-40°	318.0	84.4
0°-60°	374.8	99.4
0°-90°	376.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	376.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	54	36	17	8	6	12
15°	982	167	9	1	0	286
25°	1585	237	3	0	0	716
35°	1351	88	0	0	0	828
45°	584	12	0	0	0	445
55°	10	0	1	1	1	26
65°	0	0	1	1	2	0
75°	0	0	1	1	1	0
85°	0	0	1	0	0	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°	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9
2.5°	29.6	30.0	30.0	29.3	28.9	28.9	27.9	27.6	26.5	25.5	22.0
5°	53.7	52.7	51.3	51.3	48.2	46.5	44.1	41.3	39.3	35.8	25.5
7.5°	122.0	113.7	111.3	108.2	96.5	87.2	76.5	67.2	58.6	51.3	28.2
10°	307.6	291.4	278.0	250.8	216.7	184.0	153.6	118.5	94.4	75.1	30.3
12.5°	619.7	598.0	572.2	522.6	458.9	377.2	304.9	227.7	159.8	110.6	31.0
15°	981.5	944.6	904.3	841.2	736.9	619.7	489.2	366.2	256.6	167.1	30.3
17.5°	1276.3	1261.9	1202.3	1116.2	988.3	837.5	676.6	508.5	346.2	218.8	28.2
20°	1494.1	1484.1	1412.1	1320.4	1176.4	1003.5	799.2	597.3	408.6	251.5	25.1
22.5°	1599.1	1597.4	1545.4	1451.7	1299.1	1103.1	878.1	648.7	427.9	256.0	21.0
25°	1585.4	1591.6	1561.9	1492.3	1345.9	1144.1	901.5	648.7	413.7	237.0	17.6
27.5°	1522.7	1526.8	1508.2	1454.8	1318.4	1114.4	868.8	607.0	372.7	203.6	14.5
30°	1479.6	1481.3	1458.2	1401.0	1256.4	1046.9	791.6	529.8	310.7	163.3	10.7
32.5°	1427.2	1426.9	1400.0	1334.6	1175.1	952.2	693.8	437.8	238.7	124.0	6.2
35°	1350.8	1342.1	1305.6	1230.2	1053.8	824.7	568.8	333.5	171.9	87.8	3.8
37.5°	1245.7	1223.3	1171.6	1070.7	883.6	646.6	421.7	234.3	117.5	58.2	2.4
40°	1077.2	1053.5	983.2	860.5	668.3	465.4	284.2	152.6	74.1	34.8	1.4
42.5°	844.7	828.5	733.8	611.5	441.3	297.0	170.9	90.3	41.7	20.0	0.3
45°	583.6	562.6	488.1	384.5	264.9	164.7	95.8	47.2	23.8	12.1	0.0
47.5°	322.1	296.3	253.2	199.1	133.3	86.5	48.2	25.5	13.4	5.9	0.0
50°	128.8	127.8	101.6	72.3	51.0	39.3	24.1	13.8	6.9	2.1	0.3
52.5°	45.1	45.1	38.9	31.7	24.8	17.9	12.1	6.5	2.4	0.7	0.3
55°	10.0	11.0	10.3	9.6	9.3	7.9	5.2	2.4	0.7	0.0	0.3
57.5°	1.0	1.0	1.0	1.4	1.7	1.7	1.4	0.7	0.0	0.0	0.3
60°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.7
62.5°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.3	0.3	0.7
65°	0.3	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°	0.0	0.0	0.3	0.3	0.0	0.3	0.3	0.3	0.3	0.3	1.0
77.5°	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.3	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	0.0	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°	17.9	17.9	17.9	17.9	17.9
2.5°	17.9	14.1	11.7	10.3	10.0
5°	16.9	10.7	7.6	6.5	6.2
7.5°	15.2	7.9	5.2	4.1	3.8
10°	13.1	5.9	3.4	2.4	2.4
12.5°	11.0	4.5	2.1	1.0	0.7
15°	9.0	2.8	0.7	0.3	0.3
17.5°	6.9	1.7	0.0	0.0	0.0
20°	5.5	0.7	0.0	0.0	0.0
22.5°	4.1	0.3	0.0	0.0	0.0
25°	2.8	0.0	0.0	0.0	0.0
27.5°	1.7	0.0	0.0	0.0	0.0
30°	1.0	0.0	0.0	0.0	0.0
32.5°	0.3	0.0	0.0	0.0	0.0
35°	0.3	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.3	0.0	0.0	0.3	0.3
47.5°	0.3	0.3	0.3	0.7	0.7
50°	0.3	0.3	0.3	0.7	1.0
52.5°	0.7	0.3	0.7	1.0	1.0
55°	0.7	0.7	1.0	1.4	1.4
57.5°	0.7	0.7	1.0	1.4	1.4
60°	0.7	0.7	1.0	1.4	1.7
62.5°	1.0	1.0	1.0	1.4	1.4
65°	1.0	1.0	1.0	1.4	1.7
67.5°	1.0	1.0	1.0	1.4	1.7
70°	1.0	1.0	1.0	1.4	1.4
72.5°	1.4	1.0	1.0	1.4	1.4
75°	1.0	1.0	1.0	1.0	1.0
77.5°	1.0	1.0	0.7	1.0	1.0
80°	1.0	0.7	0.7	0.7	0.7
82.5°	1.0	0.7	0.7	0.7	0.7
85°	1.0	0.7	0.3	0.3	0.3
87.5°	1.0	0.7	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)