

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: P1338975

Luminaire Tested: P3A05R409740DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1338975
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: P3A05R409740DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

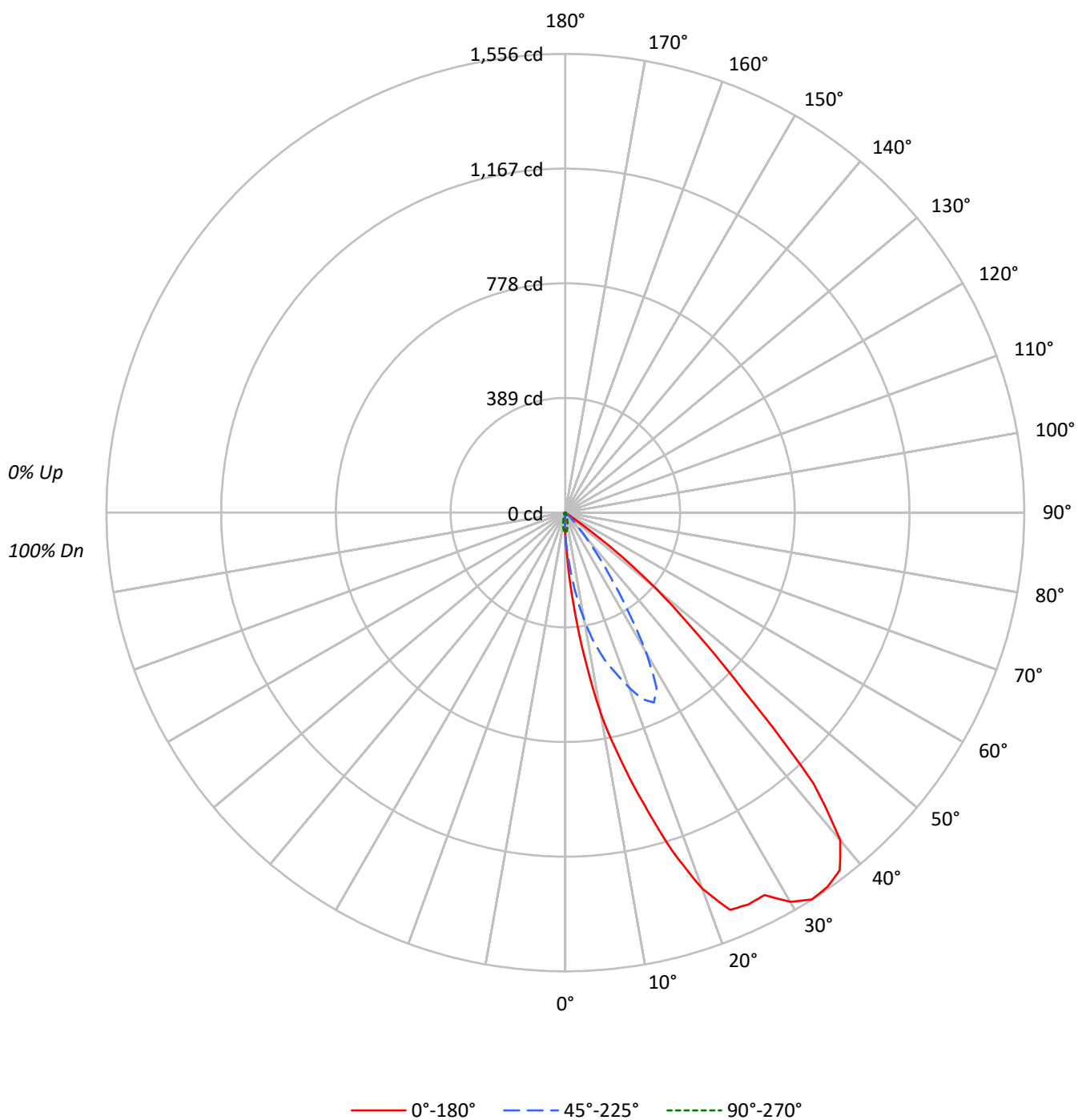
Lumens per Lamp: N/A
Luminaire Lumens: 574.1 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	14889	14889	14889	14889	14889
5°	67158	42813	13339	5129	3742
10°	154039	82742	9396	1826	1403
15°	231170	117413	5834	999	885
20°	316521	147176	3407	560	677
25°	354843	171953	1766	460	581
30°	385958	138806	734	380	608
35°	414789	71046	268	509	776
40°	414949	28339	143	544	973
45°	264927	9489	310	899	1364
50°	137514	1160	512	1160	1672
55°	11851	191	573	1491	2026
60°	439	219	658	1710	2324
65°	519	259	986	1764	2542
70°	321	321	1218	1859	2500
75°	424	424	1271	2033	2881
80°	631	631	1894	1894	2399
85°	0	1258	3774	2516	2516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 264927 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.2	2.3
10°-20°	77.7	13.5
20°-30°	170.1	29.6
30°-40°	193.8	33.8
40°-50°	102.3	17.8
50°-60°	12.1	2.1
60°-70°	2.2	0.4
70°-80°	1.8	0.3
80°-90°	0.8	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°	261.1	45.5
0°-40°	454.9	79.2
0°-60°	569.3	99.2
0°-90°	574.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	574.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	68	68	68	68	68	
5°	305	194	61	23	17	41
15°	1018	517	26	4	4	300
25°	1467	711	7	2	2	676
35°	1550	265	1	2	3	960
45°	854	31	1	3	4	689
55°	31	0	2	4	5	96
65°	1	0	2	3	5	1
75°	0	0	2	2	3	1
85°	0	0	2	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°	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
2.5°	151.4	151.4	150.9	146.5	146.0	145.5	137.8	135.8	126.6	120.3	91.7
5°	305.1	298.4	297.9	290.1	277.0	259.5	248.4	230.4	213.0	194.5	113.0
7.5°	486.1	491.9	475.9	467.7	438.6	417.7	385.7	357.5	318.2	281.4	130.5
10°	691.8	681.6	665.6	649.6	618.1	580.7	533.2	483.2	426.4	371.6	140.2
12.5°	852.4	839.3	829.6	807.7	776.7	728.7	671.9	605.0	529.8	450.7	139.7
15°	1018.3	1005.2	983.4	964.0	917.9	864.0	802.4	714.1	621.9	517.2	129.5
17.5°	1200.7	1183.7	1159.5	1129.9	1085.2	1025.6	947.5	839.8	709.3	571.5	111.1
20°	1356.4	1346.2	1322.0	1287.1	1243.4	1185.2	1094.9	975.6	816.5	630.7	88.3
22.5°	1458.3	1449.1	1432.6	1402.0	1369.0	1307.0	1224.5	1093.5	906.2	684.5	66.9
25°	1466.6	1462.7	1458.3	1448.1	1428.2	1384.1	1303.6	1162.4	962.0	710.7	49.5
27.5°	1462.2	1460.7	1459.8	1454.4	1441.3	1397.7	1315.2	1172.6	954.7	670.0	36.4
30°	1524.3	1519.9	1517.5	1500.0	1465.6	1398.2	1290.5	1117.8	848.5	548.2	26.2
32.5°	1555.8	1554.9	1552.4	1535.5	1486.9	1399.1	1248.7	985.3	672.9	395.9	17.9
35°	1549.5	1544.7	1535.9	1504.4	1437.0	1326.8	1113.9	786.9	485.6	265.4	11.6
37.5°	1528.2	1517.0	1500.0	1443.3	1353.5	1203.1	903.3	579.3	330.4	171.7	6.8
40°	1449.6	1434.5	1407.9	1338.5	1220.6	991.6	668.0	391.5	216.9	99.0	1.9
42.5°	1246.3	1226.9	1207.5	1129.9	995.0	739.3	439.5	242.1	123.7	54.3	0.5
45°	854.3	830.1	803.4	747.1	638.9	447.8	261.5	136.3	64.0	30.6	0.5
47.5°	593.3	582.2	535.6	463.8	355.6	237.2	135.4	66.9	34.0	14.1	0.5
50°	403.1	390.5	336.2	266.8	189.2	113.5	62.1	33.5	15.0	3.4	0.5
52.5°	211.5	196.0	161.5	123.2	76.7	47.5	27.2	14.6	4.4	0.5	0.5
55°	31.0	28.6	23.3	18.9	17.0	13.1	7.8	3.4	0.5	0.5	1.0
57.5°	1.0	1.0	1.0	1.0	1.5	1.5	1.0	0.5	0.5	0.5	1.0
60°	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	1.0
62.5°	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	1.0
65°	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	1.0
67.5°	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	1.0	1.5
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.5
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.5
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.0
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°	67.9	67.9	67.9	67.9	67.9
2.5°	66.9	49.5	38.3	33.0	32.5
5°	60.6	35.4	23.3	17.9	17.0
7.5°	51.4	24.7	13.6	9.7	9.2
10°	42.2	17.0	8.2	6.8	6.3
12.5°	33.5	11.2	5.8	5.3	4.9
15°	25.7	7.3	4.4	3.9	3.9
17.5°	19.4	4.9	3.4	3.4	3.4
20°	14.6	3.4	2.4	2.9	2.9
22.5°	10.2	2.4	1.9	2.4	2.4
25°	7.3	1.9	1.9	2.4	2.4
27.5°	4.9	1.5	1.5	1.9	2.4
30°	2.9	1.0	1.5	1.9	2.4
32.5°	1.5	1.0	1.5	2.4	2.4
35°	1.0	1.5	1.9	2.4	2.9
37.5°	0.5	1.5	1.9	2.9	2.9
40°	0.5	1.5	1.9	2.9	3.4
42.5°	1.0	1.9	2.4	3.4	3.9
45°	1.0	1.9	2.9	3.9	4.4
47.5°	1.0	1.9	3.4	4.4	4.4
50°	1.5	2.4	3.4	4.4	4.9
52.5°	1.5	2.4	3.4	4.9	5.3
55°	1.5	2.4	3.9	4.9	5.3
57.5°	1.5	2.9	3.9	4.9	5.3
60°	1.5	2.4	3.9	4.9	5.3
62.5°	1.9	2.4	3.4	4.9	4.9
65°	1.9	2.4	3.4	4.9	4.9
67.5°	1.9	2.4	3.4	4.4	4.4
70°	1.9	2.4	2.9	3.9	3.9
72.5°	1.9	2.4	2.9	3.4	3.9
75°	1.5	1.9	2.4	2.9	3.4
77.5°	1.5	1.9	1.9	2.9	2.9
80°	1.5	1.5	1.5	1.9	1.9
82.5°	1.5	1.5	1.0	1.5	1.5
85°	1.5	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)