

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: P1339361

Luminaire Tested: P3A05R459030D2WDE010 E3CA451MMS

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339361
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R459030D2WDE010 E3CA451MMS
Description: 3in Adjustable Dim to Warm LED luminaire with, R45 optic, 3000K CCT AND, 90CRI ,
E3CA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

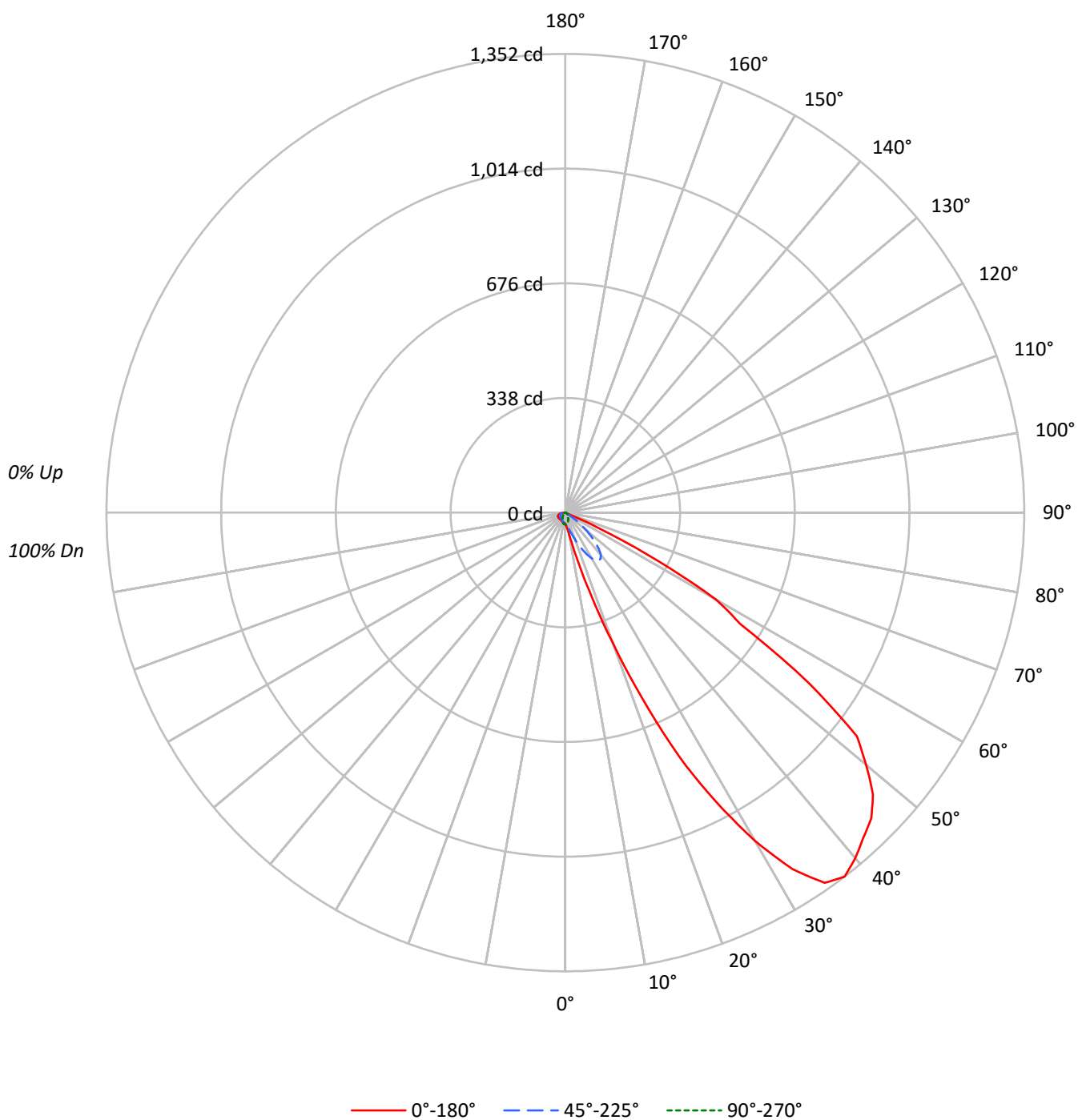
Lumens per Lamp: N/A
Luminaire Lumens: 604.1 lumens
Efficiency: N/A
Efficacy: 54.4 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28
9	53	39	31	25	52	39	30	25	38	30	25	36	29	25	35	29	24
10	49	35	27	22	48	35	27	22	34	27	21	33	26	21	32	26	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7653	7653	7653	7653	7653
5°	9113	8453	7572	7022	7022
10°	14562	9886	7103	6658	6658
15°	36254	13258	6447	6220	6447
20°	95488	19788	5600	5951	6277
25°	191745	29348	4839	5565	6170
30°	282676	39297	3925	5444	6330
35°	356566	46097	3346	5354	6558
40°	380427	46573	3006	5582	7013
45°	395266	38857	2791	6047	7598
50°	394631	27087	2729	6482	8529
55°	335434	12004	2867	7264	9366
60°	225421	2412	2851	8113	10745
65°	59825	1038	2854	8821	12193
70°	1603	1282	2885	9617	13784
75°	1271	1271	2965	10167	15674
80°	1263	1894	3157	10734	17679
85°	1258	2516	5032	11322	17612

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 405461 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.5	0.6
10°-20°	17.0	2.8
20°-30°	70.3	11.6
30°-40°	148.1	24.5
40°-50°	182.7	30.2
50°-60°	137.0	22.7
60°-70°	35.3	5.8
70°-80°	7.3	1.2
80°-90°	3.0	0.5
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°	90.8	15.0
0°-40°	238.9	39.5
0°-60°	558.5	92.5
0°-90°	604.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	604.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	35	35	35	35	35	
5°	41	38	34	32	32	5
15°	160	58	28	27	28	58
25°	792	121	20	23	26	369
35°	1332	172	12	20	24	812
45°	1275	125	9	20	24	975
55°	877	31	8	19	24	758
65°	115	2	6	17	24	166
75°	2	2	4	12	18	2
85°	0	1	2	4	7	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9
2.5°	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.4	35.9	34.9	33.9
5°	41.4	40.9	40.9	40.9	40.4	39.9	39.9	38.4	36.4	34.4	32.9
7.5°	48.9	48.9	48.4	47.4	46.9	45.9	44.9	40.9	36.4	33.4	31.4
10°	65.4	64.4	62.9	61.9	59.4	55.9	53.4	44.4	35.9	31.9	30.4
12.5°	97.8	99.8	94.8	89.8	82.8	76.4	68.4	50.4	35.9	30.4	28.9
15°	159.7	163.2	153.7	143.7	126.8	110.8	95.8	58.4	34.9	28.4	26.9
17.5°	261.0	265.5	249.5	226.1	199.6	167.7	140.2	69.4	33.9	26.5	25.5
20°	409.2	408.7	377.8	348.4	297.4	250.5	199.1	84.8	32.4	24.0	24.0
22.5°	591.4	593.4	555.5	502.6	430.2	354.8	273.0	102.8	30.4	22.0	22.5
25°	792.5	775.6	730.6	666.3	573.9	469.6	361.8	121.3	28.4	20.0	21.0
27.5°	960.2	943.7	892.3	816.0	716.7	592.9	452.2	139.7	26.0	18.0	19.5
30°	1116.4	1095.5	1033.6	947.2	829.0	695.2	537.0	155.2	23.0	15.5	18.0
32.5°	1245.2	1226.2	1155.8	1055.5	926.8	783.0	608.9	167.2	20.0	14.0	17.0
35°	1332.0	1312.6	1247.7	1137.4	997.1	846.9	667.3	172.2	17.5	12.5	16.5
37.5°	1352.0	1341.5	1295.1	1191.8	1045.6	887.8	704.7	170.7	14.5	11.5	15.5
40°	1329.0	1331.5	1309.6	1223.7	1071.5	905.3	720.2	162.7	12.0	10.5	15.0
42.5°	1299.6	1306.1	1304.6	1236.7	1082.5	906.3	713.7	146.7	9.5	9.5	14.5
45°	1274.6	1281.1	1290.1	1231.2	1075.0	893.3	693.2	125.3	7.0	9.0	14.5
47.5°	1229.2	1236.2	1249.2	1187.3	1037.1	859.9	656.3	101.8	5.0	8.5	14.0
50°	1156.8	1160.3	1156.8	1087.5	964.2	806.0	596.4	79.4	3.5	8.0	14.0
52.5°	1082.5	1075.5	1046.6	958.7	848.4	720.7	521.0	56.4	2.5	7.5	13.5
55°	877.4	866.4	844.9	791.0	728.1	615.9	421.2	31.4	2.5	7.5	13.0
57.5°	611.4	617.4	624.8	613.9	584.9	485.1	319.9	14.0	2.5	7.0	13.0
60°	514.0	509.1	509.6	502.6	454.7	353.8	220.1	5.5	2.5	6.5	12.5
62.5°	306.9	310.4	316.9	318.4	271.0	197.6	115.3	2.5	2.5	6.0	12.0
65°	115.3	120.8	105.8	91.8	72.9	53.4	26.9	2.0	3.0	5.5	11.0
67.5°	3.5	4.0	5.0	4.5	4.5	4.0	3.0	2.0	3.0	5.0	10.5
70°	2.5	2.5	2.5	2.5	2.5	2.0	2.0	2.0	2.5	4.5	9.5
72.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.5	4.0	8.5
75°	1.5	2.0	1.5	1.5	1.5	1.5	1.5	1.5	2.5	3.5	7.0
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	3.0	6.0
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	2.0	2.5	5.0
82.5°	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	2.0	2.0	4.0
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.5	2.0	2.5
87.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	1.0	1.5	1.5	1.5
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):

	135°	157.5°	180°
0°	34.9	34.9	34.9
2.5°	32.9	32.9	32.9
5°	31.9	31.9	31.9
7.5°	30.9	30.9	30.9
10°	29.9	29.9	29.9
12.5°	28.9	28.9	29.4
15°	27.4	28.4	28.4
17.5°	26.5	27.4	27.9
20°	25.5	26.5	26.9
22.5°	24.0	25.5	26.5
25°	23.0	25.0	25.5
27.5°	22.0	24.5	25.5
30°	21.5	24.0	25.0
32.5°	20.5	23.5	24.5
35°	20.0	23.5	24.5
37.5°	20.0	23.0	24.5
40°	19.5	23.0	24.5
42.5°	19.5	23.0	24.5
45°	19.5	23.0	24.5
47.5°	19.0	23.0	25.0
50°	19.0	23.5	25.0
52.5°	19.0	23.5	25.0
55°	19.0	23.5	24.5
57.5°	18.5	23.0	24.5
60°	18.5	23.0	24.5
62.5°	17.5	22.5	24.0
65°	17.0	22.0	23.5
67.5°	16.0	21.5	22.5
70°	15.0	20.0	21.5
72.5°	13.5	19.0	20.5
75°	12.0	17.5	18.5
77.5°	10.5	15.5	16.5
80°	8.5	13.0	14.0
82.5°	6.5	10.0	10.5
85°	4.5	6.5	7.0
87.5°	2.0	3.0	3.5
90°	0.0	0.0	0.0

(END OF REPORT)