

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: P1339448

Luminaire Tested: P3A05R459730DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339448
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R459730DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

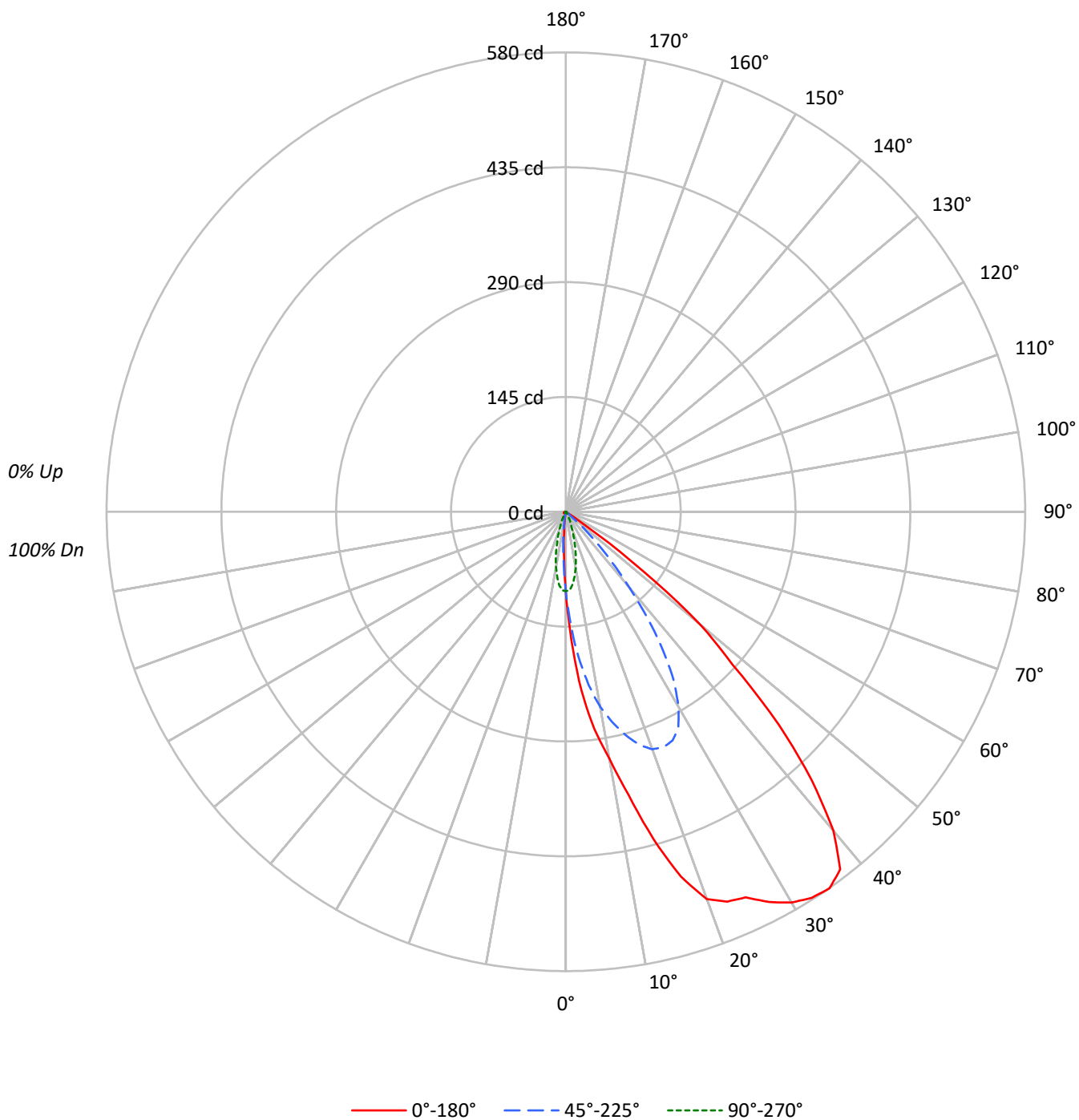
Lumens per Lamp: N/A
Luminaire Lumens: 263.0 lumens
Efficiency: N/A
Efficacy: 36.5 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1339448

CATALOG NUMBER: P3A05R459730DE010 E3A301WMH

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	93	90	95	91	88	91	88	86	89	86	84	82		
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	76	71	90	82	76	71	80	74	70	77	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	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45		
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41		
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	21950	21950	21950	21950	21950
5°	50011	40568	20537	8232	5613
10°	70473	55733	15876	1804	824
15°	97117	66311	10125	590	499
20°	121437	74463	5297	420	420
25°	129951	77109	2444	315	363
30°	144250	72011	1114	329	380
35°	155369	57420	348	348	482
40°	150339	35581	200	429	573
45°	118059	16777	217	558	682
50°	75870	1944	307	682	887
55°	11507	153	344	841	1109
60°	175	175	395	965	1140
65°	208	208	467	1038	1349
70°	256	256	577	1154	1539
75°	169	339	763	1271	1694
80°	253	505	884	1389	1894
85°	0	503	1006	1761	1761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 118059 cd/sqm

TEST NUMBER: P1339448

CATALOG NUMBER: P3A05R459730DE010 E3A301WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.0	4.2
10°-20°	39.6	15.1
20°-30°	69.6	26.5
30°-40°	79.0	30.0
40°-50°	51.2	19.5
50°-60°	10.0	3.8
60°-70°	1.2	0.5
70°-80°	1.0	0.4
80°-90°	0.5	0.2
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°	120.1	45.7
0°-40°	199.1	75.7
0°-60°	260.3	99.0
0°-90°	263.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	263.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	100	100	100	100	100	
5°	227	184	93	37	26	24
15°	428	292	45	3	2	123
25°	537	319	10	1	2	252
35°	580	214	1	1	2	357
45°	381	54	1	2	2	287
55°	30	0	1	2	3	58
65°	0	0	1	2	3	0
75°	0	0	1	2	2	0
85°	0	0	0	1	1	0
90°	0	0	0	0	0	

TEST NUMBER: P1339448

CATALOG NUMBER: P3A05R459730DE010 E3A301WMH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1
2.5°	162.5	162.1	162.8	158.4	158.1	154.8	154.0	150.2	145.2	142.7	137.0
5°	227.2	225.0	225.0	219.7	218.0	214.2	207.9	199.9	193.3	184.3	174.6
7.5°	277.1	276.7	276.7	272.1	267.7	262.4	253.8	244.8	234.2	220.4	206.3
10°	316.5	317.2	315.2	311.0	304.6	298.9	288.8	277.8	264.8	250.3	231.6
12.5°	366.2	361.4	359.8	350.4	342.2	331.2	319.1	306.6	290.6	272.3	251.2
15°	427.8	421.6	415.5	402.9	389.3	372.4	353.5	335.0	314.3	292.1	265.7
17.5°	482.8	482.8	474.6	454.9	437.3	412.2	386.7	362.0	337.6	308.4	275.4
20°	520.4	518.4	512.3	497.7	477.7	449.4	416.1	381.6	352.1	319.1	280.9
22.5°	532.7	532.3	532.5	523.9	507.9	478.4	437.7	397.0	360.1	321.8	278.2
25°	537.1	538.0	540.2	536.9	524.8	495.3	450.9	404.3	362.5	318.7	268.1
27.5°	555.4	553.6	556.0	553.8	540.2	505.0	453.5	402.5	357.2	307.5	250.1
30°	569.7	569.2	573.4	571.4	553.6	511.2	451.1	395.9	344.2	284.4	221.7
32.5°	577.8	578.0	579.1	571.0	544.6	497.7	439.2	382.5	319.8	254.3	184.8
35°	580.4	579.1	573.0	553.0	516.9	466.7	410.0	350.6	286.6	214.5	146.0
37.5°	569.0	562.2	546.4	516.4	474.6	427.8	372.6	310.3	241.1	169.4	108.9
40°	525.2	516.2	496.2	465.6	426.7	381.4	324.9	259.8	187.0	124.3	76.5
42.5°	459.7	455.1	434.2	407.6	374.6	328.8	270.5	204.6	138.3	85.8	48.8
45°	380.7	374.8	361.6	338.1	312.1	264.2	209.8	146.5	94.4	54.1	24.2
47.5°	285.5	285.9	276.9	259.1	233.6	193.6	143.6	98.3	59.2	27.9	5.5
50°	222.4	219.3	206.5	188.3	158.6	128.9	92.8	62.0	31.2	5.7	0.4
52.5°	123.2	125.2	118.3	112.4	97.0	77.0	54.8	31.5	6.6	0.7	0.4
55°	30.1	31.9	30.6	31.2	32.3	28.8	22.2	6.2	0.7	0.4	0.4
57.5°	0.7	0.7	0.7	0.7	1.1	1.5	1.5	0.4	0.4	0.4	0.4
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
62.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
70°	0.4	0.4	0.4	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4
82.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1339448

CATALOG NUMBER: P3A05R459730DE010 E3A301WMH

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1
2.5°	134.2	130.0	122.3	99.4	79.8	64.4	55.2	54.3
5°	166.1	154.8	138.6	93.3	58.9	37.4	27.1	25.5
7.5°	191.4	175.5	150.4	83.1	40.3	19.1	10.6	8.8
10°	212.3	189.8	156.6	71.3	25.3	8.1	4.4	3.7
12.5°	226.5	199.5	157.7	58.1	14.5	4.0	2.9	2.6
15°	235.8	202.6	152.4	44.6	8.1	2.6	2.4	2.2
17.5°	239.5	199.9	142.3	32.3	4.4	2.0	2.0	2.0
20°	237.8	191.4	127.4	22.7	2.9	1.8	1.8	1.8
22.5°	229.4	176.6	108.7	15.2	2.0	1.5	1.5	1.5
25°	212.9	156.6	88.9	10.1	1.3	1.3	1.5	1.5
27.5°	188.3	132.0	68.0	6.8	1.1	1.3	1.5	1.5
30°	157.3	104.5	48.8	4.4	1.1	1.3	1.3	1.5
32.5°	124.9	76.1	32.1	2.6	0.9	1.3	1.5	1.8
35°	90.6	51.9	20.5	1.3	1.1	1.3	1.5	1.8
37.5°	63.6	33.9	11.9	0.9	1.1	1.3	1.8	1.8
40°	41.4	18.9	4.4	0.7	1.1	1.5	1.8	2.0
42.5°	21.6	6.6	0.9	0.7	1.1	1.5	2.0	2.2
45°	5.5	0.9	0.2	0.7	1.3	1.8	2.2	2.2
47.5°	0.7	0.2	0.2	0.9	1.3	2.0	2.2	2.4
50°	0.2	0.4	0.4	0.9	1.3	2.0	2.4	2.6
52.5°	0.4	0.4	0.4	0.9	1.5	2.0	2.6	2.9
55°	0.4	0.4	0.4	0.9	1.5	2.2	2.6	2.9
57.5°	0.4	0.4	0.4	0.9	1.5	2.2	2.6	2.6
60°	0.4	0.4	0.4	0.9	1.5	2.2	2.6	2.6
62.5°	0.4	0.4	0.7	0.9	1.5	2.0	2.6	2.6
65°	0.4	0.7	0.7	0.9	1.5	2.0	2.4	2.6
67.5°	0.4	0.4	0.7	0.9	1.5	2.0	2.4	2.6
70°	0.4	0.4	0.7	0.9	1.3	1.8	2.2	2.4
72.5°	0.4	0.4	0.7	0.9	1.3	1.8	2.0	2.2
75°	0.4	0.4	0.7	0.9	1.1	1.5	2.0	2.0
77.5°	0.4	0.4	0.7	0.7	1.1	1.3	1.8	1.8
80°	0.4	0.4	0.7	0.7	0.9	1.1	1.3	1.5
82.5°	0.4	0.4	0.4	0.7	0.7	0.9	1.1	1.1
85°	0.4	0.4	0.4	0.4	0.4	0.7	0.7	0.7
87.5°	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)