

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: P1346124

Luminaire Tested: P3A13R409840DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1346124
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: P3A13R409840DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

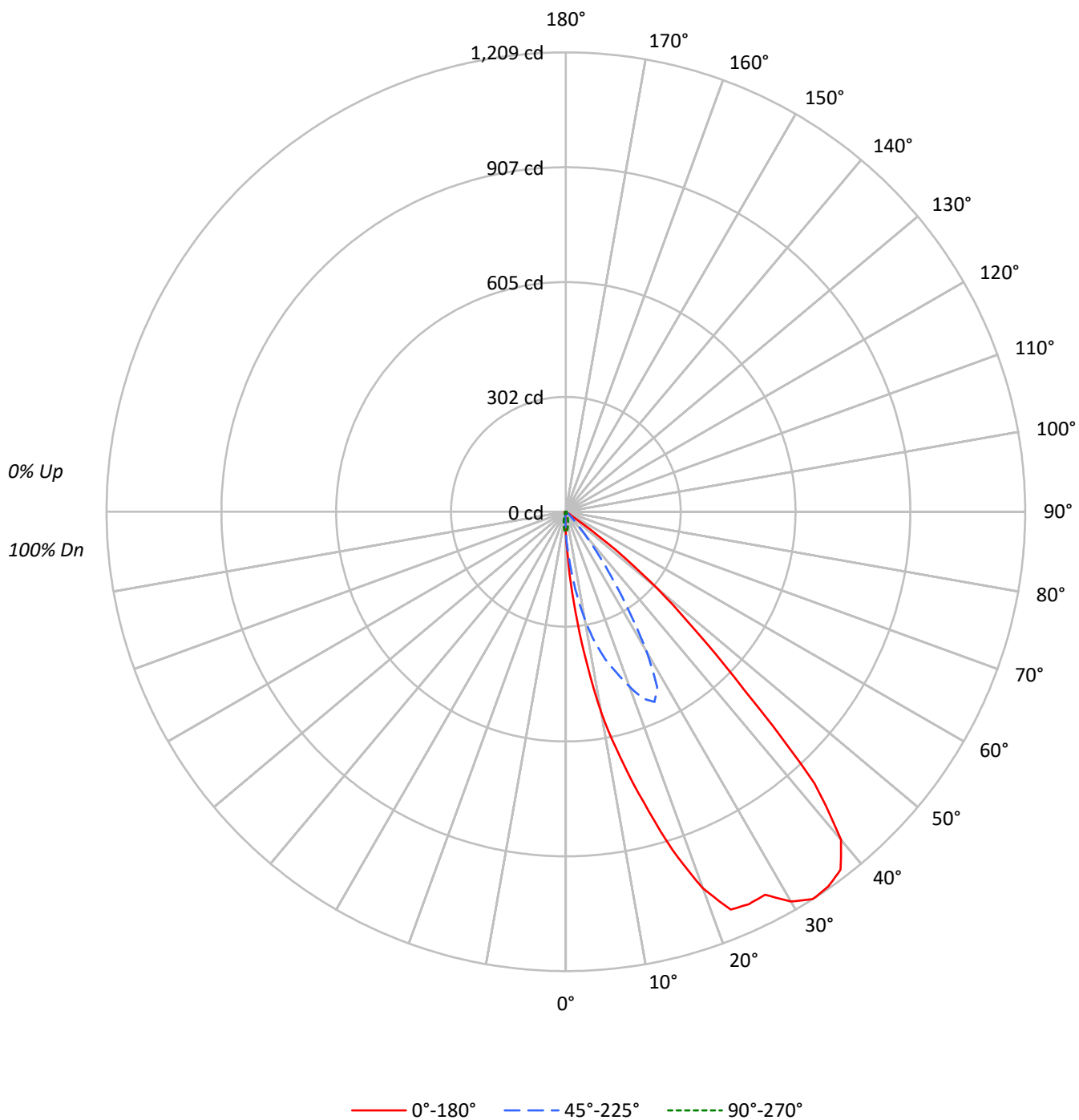
Lumens per Lamp: N/A
Luminaire Lumens: 446.0 lumens
Efficiency: N/A
Efficacy: 30.8 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.41 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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°	11578	11578	11578	11578	11578
5°	52190	33282	10368	3984	2906
10°	119682	64283	7303	1425	1091
15°	179615	91215	4540	772	681
20°	245955	114343	2637	443	537
25°	275701	133604	1379	363	460
30°	299894	107865	582	279	481
35°	322302	55198	214	402	616
40°	322404	22013	115	429	744
45°	205851	7350	248	713	1054
50°	106845	887	375	887	1296
55°	9214	153	421	1147	1567
60°	351	175	482	1316	1798
65°	415	208	778	1349	1972
70°	256	256	962	1475	1923
75°	339	339	932	1610	2203
80°	505	505	1389	1389	1894
85°	0	1006	2768	2013	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 205851 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.3	2.3
10°-20°	60.4	13.5
20°-30°	132.2	29.6
30°-40°	150.6	33.8
40°-50°	79.5	17.8
50°-60°	9.4	2.1
60°-70°	1.7	0.4
70°-80°	1.4	0.3
80°-90°	0.6	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°	202.9	45.5
0°-40°	353.5	79.2
0°-60°	442.3	99.2
0°-90°	446.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	446.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	53	53	53	53	53	
5°	237	151	47	18	13	32
15°	791	402	20	3	3	233
25°	1140	552	6	2	2	525
35°	1204	206	1	2	2	746
45°	664	24	1	2	3	535
55°	24	0	1	3	4	75
65°	1	0	2	3	4	1
75°	0	0	1	2	3	0
85°	0	0	1	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°	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
2.5°	117.6	117.6	117.2	113.8	113.5	113.1	107.1	105.5	98.4	93.5	71.2
5°	237.1	231.8	231.4	225.4	215.2	201.7	193.0	179.1	165.5	151.2	87.8
7.5°	377.7	382.2	369.8	363.4	340.8	324.6	299.7	277.8	247.3	218.6	101.4
10°	537.5	529.6	517.2	504.7	480.2	451.2	414.3	375.4	331.3	288.7	108.9
12.5°	662.3	652.1	644.6	627.6	603.5	566.2	522.1	470.1	411.6	350.2	108.6
15°	791.2	781.0	764.1	749.0	713.2	671.4	623.5	554.9	483.3	401.8	100.6
17.5°	933.0	919.8	900.9	877.9	843.2	796.9	736.2	652.5	551.1	444.0	86.3
20°	1054.0	1046.0	1027.2	1000.1	966.1	920.9	850.8	758.0	634.4	490.0	68.6
22.5°	1133.1	1126.0	1113.1	1089.4	1063.8	1015.5	951.4	849.6	704.1	531.9	52.0
25°	1139.5	1136.5	1133.1	1125.2	1109.7	1075.4	1012.9	903.2	747.5	552.2	38.4
27.5°	1136.1	1135.0	1134.2	1130.1	1119.9	1086.0	1021.9	911.1	741.8	520.6	28.3
30°	1184.4	1181.0	1179.1	1165.5	1138.8	1086.4	1002.7	868.5	659.3	426.0	20.4
32.5°	1208.9	1208.1	1206.2	1193.1	1155.4	1087.1	970.3	765.6	522.8	307.6	13.9
35°	1204.0	1200.2	1193.4	1168.9	1116.5	1031.0	865.5	611.4	377.3	206.2	9.0
37.5°	1187.4	1178.7	1165.5	1121.4	1051.7	934.8	701.9	450.1	256.7	133.4	5.3
40°	1126.3	1114.6	1093.9	1040.0	948.4	770.5	519.1	304.2	168.5	76.9	1.5
42.5°	968.4	953.3	938.2	877.9	773.1	574.5	341.5	188.1	96.1	42.2	0.4
45°	663.8	645.0	624.2	580.5	496.4	347.9	203.2	105.9	49.8	23.7	0.4
47.5°	461.0	452.3	416.2	360.4	276.3	184.3	105.2	52.0	26.4	10.9	0.4
50°	313.2	303.4	261.2	207.3	147.0	88.2	48.2	26.0	11.7	2.6	0.4
52.5°	164.4	152.3	125.5	95.7	59.6	36.9	21.1	11.3	3.4	0.4	0.4
55°	24.1	22.2	18.1	14.7	13.2	10.2	6.0	2.6	0.4	0.4	0.8
57.5°	0.8	0.8	0.8	0.8	1.1	1.1	0.8	0.4	0.4	0.4	0.8
60°	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.8
62.5°	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.8
65°	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.8
67.5°	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.8	1.1
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.1
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.1
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.8
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°	52.8	52.8	52.8	52.8	52.8
2.5°	52.0	38.4	29.8	25.6	25.3
5°	47.1	27.5	18.1	13.9	13.2
7.5°	40.0	19.2	10.6	7.5	7.2
10°	32.8	13.2	6.4	5.3	4.9
12.5°	26.0	8.7	4.5	4.1	3.8
15°	20.0	5.7	3.4	3.0	3.0
17.5°	15.1	3.8	2.6	2.6	2.6
20°	11.3	2.6	1.9	2.3	2.3
22.5°	7.9	1.9	1.5	1.9	1.9
25°	5.7	1.5	1.5	1.9	1.9
27.5°	3.8	1.1	1.1	1.5	1.9
30°	2.3	0.8	1.1	1.5	1.9
32.5°	1.1	0.8	1.1	1.9	1.9
35°	0.8	1.1	1.5	1.9	2.3
37.5°	0.4	1.1	1.5	2.3	2.3
40°	0.4	1.1	1.5	2.3	2.6
42.5°	0.8	1.5	1.9	2.6	3.0
45°	0.8	1.5	2.3	3.0	3.4
47.5°	0.8	1.5	2.6	3.4	3.4
50°	1.1	1.9	2.6	3.4	3.8
52.5°	1.1	1.9	2.6	3.8	4.1
55°	1.1	1.9	3.0	3.8	4.1
57.5°	1.1	2.3	3.0	3.8	4.1
60°	1.1	1.9	3.0	3.8	4.1
62.5°	1.5	1.9	2.6	3.8	3.8
65°	1.5	1.9	2.6	3.8	3.8
67.5°	1.5	1.9	2.6	3.4	3.4
70°	1.5	1.9	2.3	3.0	3.0
72.5°	1.5	1.9	2.3	2.6	3.0
75°	1.1	1.5	1.9	2.3	2.6
77.5°	1.1	1.5	1.5	2.3	2.3
80°	1.1	1.1	1.1	1.5	1.5
82.5°	1.1	1.1	0.8	1.1	1.1
85°	1.1	0.8	0.8	0.8	0.8
87.5°	0.8	0.8	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)