

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: P1346039

Luminaire Tested: P3A13R409735DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1346039
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: P3A13R409735DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 97CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

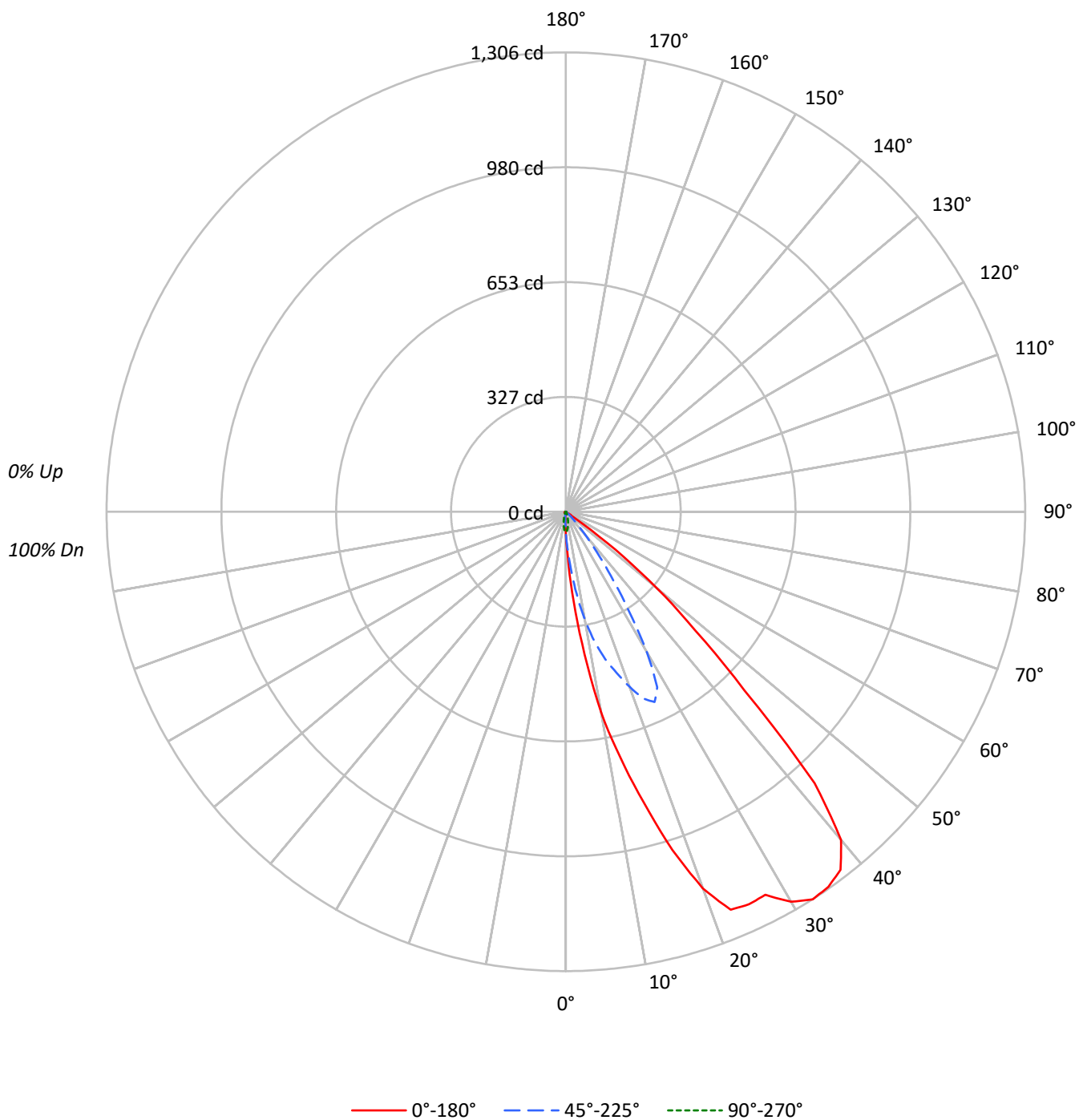
Lumens per Lamp: N/A
Luminaire Lumens: 482.0 lumens
Efficiency: N/A
Efficacy: 33.0 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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			0
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	52	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°	12499	12499	12499	12499	12499
5°	56394	35967	11204	4314	3148
10°	129345	69493	7882	1536	1180
15°	194121	98593	4904	840	749
20°	265790	123584	2847	467	560
25°	297961	144395	1476	387	484
30°	324100	116550	608	304	506
35°	348321	59642	214	428	642
40°	348424	23787	115	458	830
45°	222473	7970	248	744	1147
50°	115476	989	409	989	1399
55°	9978	153	459	1262	1720
60°	351	175	526	1447	1974
65°	415	208	830	1505	2127
70°	256	256	1026	1539	2116
75°	339	339	1017	1694	2457
80°	505	505	1515	1515	2020
85°	0	1006	3019	2013	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 222473 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.1	2.3
10°-20°	65.2	13.5
20°-30°	142.9	29.6
30°-40°	162.8	33.8
40°-50°	85.9	17.8
50°-60°	10.1	2.1
60°-70°	1.8	0.4
70°-80°	1.5	0.3
80°-90°	0.7	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°	219.2	45.5
0°-40°	382.0	79.3
0°-60°	478.0	99.2
0°-90°	482.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	482.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	57	57	57	57	57	
5°	256	163	51	20	14	35
15°	855	434	22	4	3	252
25°	1232	597	6	2	2	567
35°	1301	223	1	2	2	806
45°	717	26	1	2	4	578
55°	26	0	1	3	4	81
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°	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
2.5°	127.1	127.1	126.7	123.0	122.6	122.2	115.7	114.1	106.3	101.0	77.0
5°	256.2	250.5	250.1	243.6	232.6	217.9	208.6	193.5	178.8	163.4	94.9
7.5°	408.2	413.1	399.6	392.7	368.3	350.8	323.9	300.2	267.2	236.3	109.6
10°	580.9	572.4	558.9	545.5	519.0	487.6	447.7	405.7	358.1	312.1	117.7
12.5°	715.8	704.8	696.6	678.3	652.2	611.9	564.2	508.0	444.9	378.5	117.3
15°	855.1	844.1	825.8	809.5	770.8	725.5	673.8	599.7	522.3	434.3	108.8
17.5°	1008.3	994.0	973.6	948.8	911.3	861.2	795.6	705.2	595.6	479.9	93.3
20°	1139.0	1130.5	1110.1	1080.8	1044.1	995.2	919.5	819.2	685.6	529.6	74.1
22.5°	1224.6	1216.8	1203.0	1177.3	1149.6	1097.5	1028.2	918.2	761.0	574.8	56.2
25°	1231.5	1228.2	1224.6	1216.0	1199.3	1162.2	1094.6	976.1	807.8	596.8	41.6
27.5°	1227.8	1226.6	1225.8	1221.3	1210.3	1173.7	1104.4	984.6	801.7	562.6	30.6
30°	1280.0	1276.3	1274.3	1259.6	1230.7	1174.1	1083.6	938.6	712.5	460.3	22.0
32.5°	1306.5	1305.6	1303.6	1289.4	1248.6	1174.9	1048.6	827.4	565.0	332.4	15.1
35°	1301.2	1297.1	1289.8	1263.3	1206.7	1114.2	935.3	660.8	407.8	222.8	9.8
37.5°	1283.2	1273.9	1259.6	1211.9	1136.6	1010.3	758.5	486.4	277.4	144.2	5.7
40°	1217.2	1204.6	1182.2	1124.0	1025.0	832.7	561.0	328.8	182.1	83.1	1.6
42.5°	1046.6	1030.3	1014.0	948.8	835.5	620.8	369.1	203.3	103.9	45.6	0.4
45°	717.4	697.0	674.6	627.4	536.5	376.0	219.6	114.5	53.8	25.7	0.4
47.5°	498.2	488.9	449.7	389.5	298.6	199.2	113.7	56.2	28.5	11.8	0.4
50°	338.5	327.9	282.3	224.1	158.9	95.3	52.1	28.1	12.6	2.9	0.4
52.5°	177.6	164.6	135.7	103.5	64.4	39.9	22.8	12.2	3.7	0.4	0.4
55°	26.1	24.0	19.6	15.9	14.3	11.0	6.5	2.9	0.4	0.4	0.8
57.5°	0.8	0.8	0.8	0.8	1.2	1.2	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	1.2
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.2
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.2
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	1.2
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°	57.0	57.0	57.0	57.0	57.0
2.5°	56.2	41.6	32.2	27.7	27.3
5°	50.9	29.7	19.6	15.1	14.3
7.5°	43.2	20.8	11.4	8.1	7.7
10°	35.4	14.3	6.9	5.7	5.3
12.5°	28.1	9.4	4.9	4.5	4.1
15°	21.6	6.1	3.7	3.3	3.3
17.5°	16.3	4.1	2.9	2.9	2.9
20°	12.2	2.9	2.0	2.4	2.4
22.5°	8.6	2.0	1.6	2.0	2.0
25°	6.1	1.6	1.6	2.0	2.0
27.5°	4.1	1.2	1.2	1.6	2.0
30°	2.4	0.8	1.2	1.6	2.0
32.5°	1.2	0.8	1.2	2.0	2.0
35°	0.8	1.2	1.6	2.0	2.4
37.5°	0.4	1.2	1.6	2.4	2.4
40°	0.4	1.2	1.6	2.4	2.9
42.5°	0.8	1.6	2.0	2.9	3.3
45°	0.8	1.6	2.4	3.3	3.7
47.5°	0.8	1.6	2.9	3.7	3.7
50°	1.2	2.0	2.9	3.7	4.1
52.5°	1.2	2.0	2.9	4.1	4.5
55°	1.2	2.0	3.3	4.1	4.5
57.5°	1.2	2.4	3.3	4.1	4.5
60°	1.2	2.0	3.3	4.1	4.5
62.5°	1.6	2.0	2.9	4.1	4.1
65°	1.6	2.0	2.9	4.1	4.1
67.5°	1.6	2.0	2.9	3.7	3.7
70°	1.6	2.0	2.4	3.3	3.3
72.5°	1.6	2.0	2.4	2.9	3.3
75°	1.2	1.6	2.0	2.4	2.9
77.5°	1.2	1.6	1.6	2.4	2.4
80°	1.2	1.2	1.2	1.6	1.6
82.5°	1.2	1.2	0.8	1.2	1.2
85°	1.2	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)