

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: P1346055

Luminaire Tested: P3A13R409740DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1346055
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: P3A13R409740DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 97CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

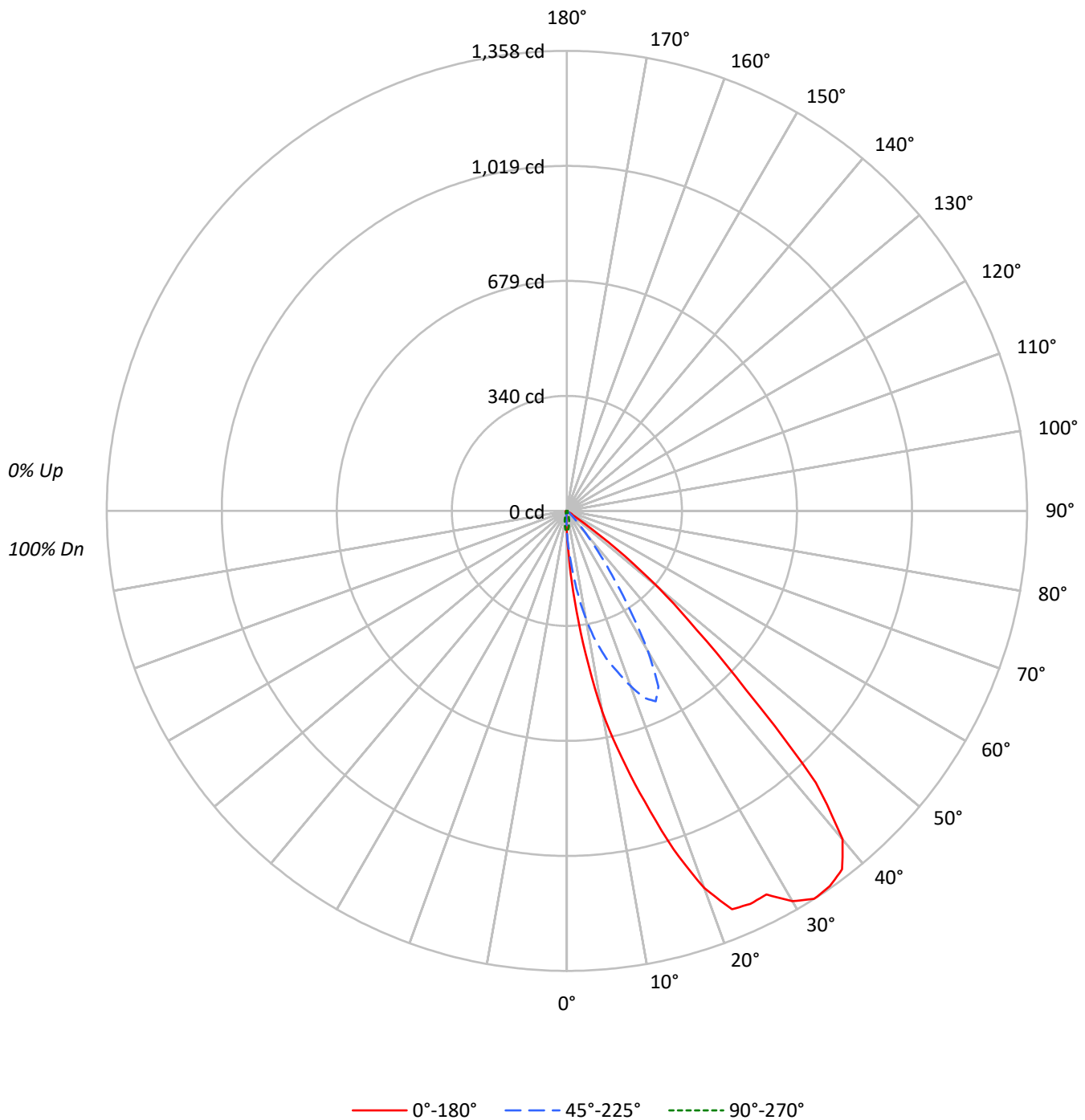
Lumens per Lamp: N/A
Luminaire Lumens: 501.0 lumens
Efficiency: N/A
Efficacy: 34.3 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.41 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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

TEST NUMBER: P1346055

CATALOG NUMBER: P3A13R409740DE010 E3A301GPH

Luminous Intensity Polar Plot



TEST NUMBER: P1346055

CATALOG NUMBER: P3A13R409740DE010 E3A301GPH

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	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°	13003	13003	13003	13003	13003
5°	58618	37376	11644	4468	3258
10°	134444	72232	8194	1603	1225
15°	201772	102475	5085	863	772
20°	276267	128461	2964	490	583
25°	309695	150081	1548	411	508
30°	336862	121158	633	329	532
35°	362054	61998	214	455	669
40°	362164	24732	115	487	859
45°	231249	8280	248	775	1178
50°	120047	1023	443	1023	1433
55°	10360	153	497	1300	1797
60°	351	175	570	1491	2061
65°	415	208	882	1557	2179
70°	256	256	1090	1603	2180
75°	339	339	1101	1779	2542
80°	505	505	1642	1642	2147
85°	0	1006	3271	2013	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 231249 cd/sqm

TEST NUMBER: P1346055

CATALOG NUMBER: P3A13R409740DE010 E3A301GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.5	2.3
10°-20°	67.8	13.5
20°-30°	148.5	29.6
30°-40°	169.2	33.8
40°-50°	89.3	17.8
50°-60°	10.5	2.1
60°-70°	1.9	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°	227.9	45.5
0°-40°	397.1	79.3
0°-60°	496.8	99.2
0°-90°	501.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	501.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	59	59	59	59	59	
5°	266	170	53	20	15	36
15°	889	451	22	4	3	262
25°	1280	620	6	2	2	590
35°	1352	232	1	2	2	838
45°	746	27	1	2	4	601
55°	27	0	1	3	5	84
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	

TEST NUMBER: P1346055

CATALOG NUMBER: P3A13R409740DE010 E3A301GPH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
2.5°	132.1	132.1	131.7	127.9	127.5	127.0	120.3	118.6	110.5	105.0	80.0
5°	266.3	260.4	260.0	253.2	241.8	226.5	216.8	201.1	185.9	169.8	98.7
7.5°	424.3	429.4	415.4	408.2	382.8	364.6	336.6	312.1	277.8	245.6	113.9
10°	603.8	594.9	581.0	567.0	539.5	506.9	465.4	421.7	372.2	324.4	122.4
12.5°	744.0	732.5	724.1	705.0	677.9	636.0	586.5	528.0	462.4	393.4	121.9
15°	888.8	877.4	858.3	841.4	801.1	754.1	700.4	623.3	542.8	451.4	113.1
17.5°	1048.0	1033.2	1012.0	986.2	947.2	895.1	827.0	733.0	619.1	498.8	97.0
20°	1183.9	1175.0	1153.9	1123.4	1085.3	1034.5	955.7	851.5	712.6	550.5	77.1
22.5°	1272.8	1264.8	1250.4	1223.7	1194.9	1140.7	1068.8	954.4	791.0	597.5	58.4
25°	1280.0	1276.7	1272.8	1264.0	1246.6	1208.1	1137.8	1014.6	839.7	620.3	43.2
27.5°	1276.2	1275.0	1274.1	1269.5	1258.0	1219.9	1147.9	1023.4	833.3	584.8	31.8
30°	1330.4	1326.6	1324.5	1309.3	1279.2	1220.3	1126.3	975.6	740.6	478.5	22.9
32.5°	1358.0	1357.1	1355.0	1340.2	1297.8	1221.2	1089.9	860.0	587.3	345.5	15.7
35°	1352.5	1348.2	1340.6	1313.1	1254.2	1158.1	972.2	686.8	423.9	231.6	10.2
37.5°	1333.8	1324.1	1309.3	1259.7	1181.4	1050.1	788.4	505.6	288.4	149.9	5.9
40°	1265.2	1252.1	1228.8	1168.3	1065.4	865.5	583.1	341.7	189.3	86.4	1.7
42.5°	1087.8	1070.9	1053.9	986.2	868.5	645.3	383.6	211.3	108.0	47.4	0.4
45°	745.7	724.5	701.2	652.1	557.7	390.8	228.2	119.0	55.9	26.7	0.4
47.5°	517.9	508.1	467.5	404.8	310.4	207.1	118.1	58.4	29.6	12.3	0.4
50°	351.9	340.9	293.4	232.9	165.1	99.1	54.2	29.2	13.1	3.0	0.4
52.5°	184.6	171.1	141.0	107.6	66.9	41.5	23.7	12.7	3.8	0.4	0.4
55°	27.1	25.0	20.3	16.5	14.8	11.4	6.8	3.0	0.4	0.4	0.8
57.5°	0.8	0.8	0.8	0.8	1.3	1.3	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	1.3
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.3
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.3
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	1.3
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

TEST NUMBER: P1346055

CATALOG NUMBER: P3A13R409740DE010 E3A301GPH

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	59.3	59.3	59.3	59.3	59.3
2.5°	58.4	43.2	33.5	28.8	28.4
5°	52.9	30.9	20.3	15.7	14.8
7.5°	44.9	21.6	11.9	8.5	8.0
10°	36.8	14.8	7.2	5.9	5.5
12.5°	29.2	9.7	5.1	4.7	4.2
15°	22.4	6.4	3.8	3.4	3.4
17.5°	16.9	4.2	3.0	3.0	3.0
20°	12.7	3.0	2.1	2.5	2.5
22.5°	8.9	2.1	1.7	2.1	2.1
25°	6.4	1.7	1.7	2.1	2.1
27.5°	4.2	1.3	1.3	1.7	2.1
30°	2.5	0.8	1.3	1.7	2.1
32.5°	1.3	0.8	1.3	2.1	2.1
35°	0.8	1.3	1.7	2.1	2.5
37.5°	0.4	1.3	1.7	2.5	2.5
40°	0.4	1.3	1.7	2.5	3.0
42.5°	0.8	1.7	2.1	3.0	3.4
45°	0.8	1.7	2.5	3.4	3.8
47.5°	0.8	1.7	3.0	3.8	3.8
50°	1.3	2.1	3.0	3.8	4.2
52.5°	1.3	2.1	3.0	4.2	4.7
55°	1.3	2.1	3.4	4.2	4.7
57.5°	1.3	2.5	3.4	4.2	4.7
60°	1.3	2.1	3.4	4.2	4.7
62.5°	1.7	2.1	3.0	4.2	4.2
65°	1.7	2.1	3.0	4.2	4.2
67.5°	1.7	2.1	3.0	3.8	3.8
70°	1.7	2.1	2.5	3.4	3.4
72.5°	1.7	2.1	2.5	3.0	3.4
75°	1.3	1.7	2.1	2.5	3.0
77.5°	1.3	1.7	1.7	2.5	2.5
80°	1.3	1.3	1.3	1.7	1.7
82.5°	1.3	1.3	0.8	1.3	1.3
85°	1.3	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)