

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: P1344951

Luminaire Tested: P3A13R309040DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-62)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R309040DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R30 optic, 4000K CCT AND, 90CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

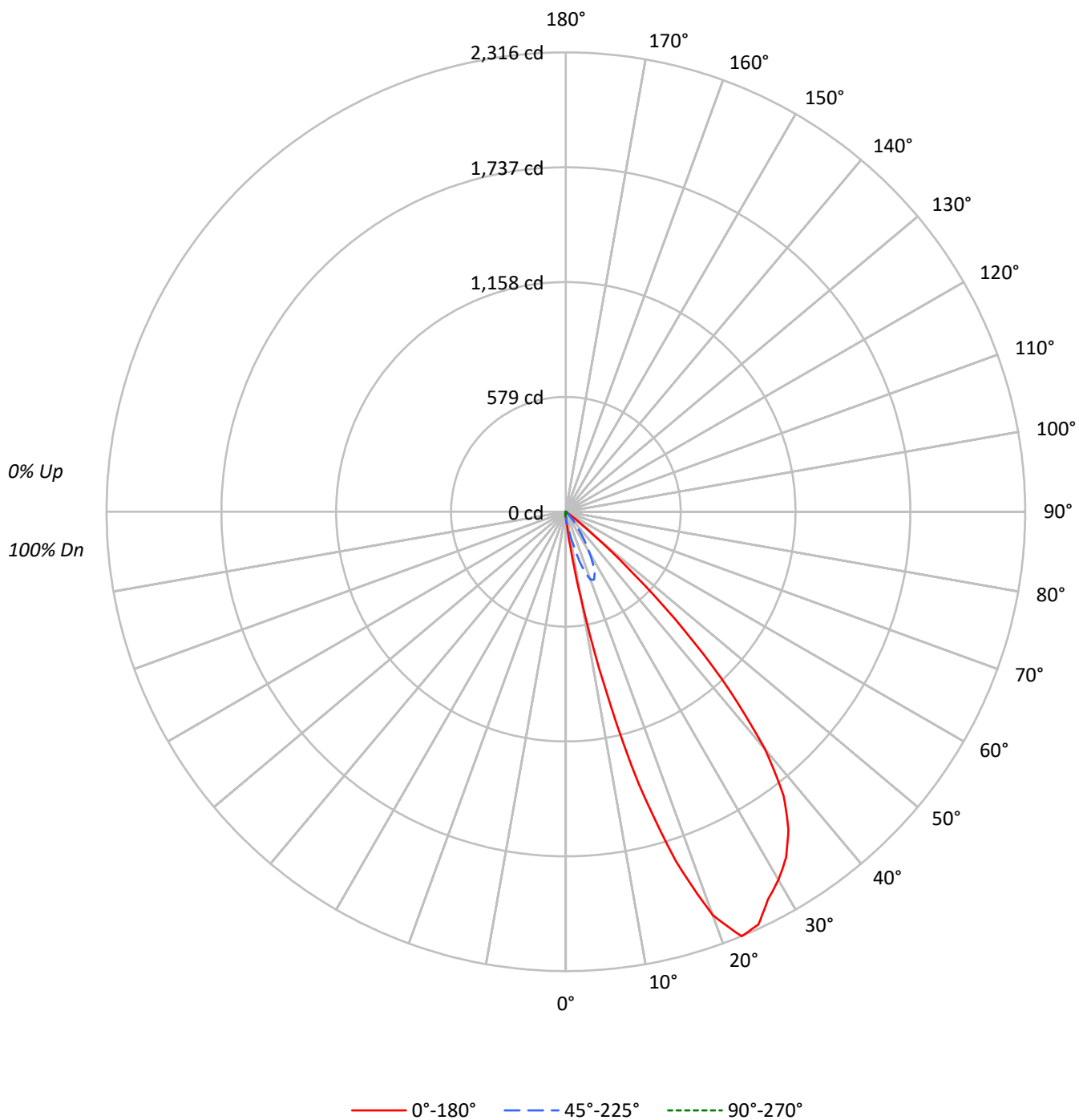
Lumens per Lamp: N/A
Luminaire Lumens: 546.0 lumens
Efficiency: N/A
Efficacy: 37.4 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	75		
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61		
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50		
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45		
9	67	55	48	43	65	55	48	43	53	47	43	52	47	43	52	46	43	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°	5679	5679	5679	5679	5679
5°	17125	11424	5371	2421	1981
10°	99197	24226	4231	1113	779
15°	322681	54938	2951	227	114
20°	504931	84987	1867	0	0
25°	555516	83061	968	0	0
30°	542590	59883	380	0	0
35°	523686	34050	134	0	0
40°	446580	14427	0	0	0
45°	262105	5427	155	0	155
50°	63657	1023	171	171	512
55°	5543	0	382	573	765
60°	219	0	439	658	1096
65°	259	259	778	778	1297
70°	321	321	962	962	1282
75°	0	424	1271	1271	1271
80°	0	631	1894	1263	1263
85°	0	1258	3774	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 262105 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.8	0.9
10°-20°	75.0	13.7
20°-30°	190.7	34.9
30°-40°	190.1	34.8
40°-50°	77.0	14.1
50°-60°	5.3	1.0
60°-70°	1.2	0.2
70°-80°	1.2	0.2
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°	270.5	49.5
0°-40°	460.6	84.4
0°-60°	542.9	99.4
0°-90°	546.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	546.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	26	26	26	26	26	
5°	78	52	24	11	9	18
15°	1421	242	13	1	0	414
25°	2296	343	4	0	0	1037
35°	1956	127	0	0	0	1199
45°	845	18	0	0	0	645
55°	14	0	1	2	2	38
65°	0	0	2	2	2	0
75°	0	0	2	2	2	0
85°	0	0	2	0	0	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°	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
2.5°	42.9	43.4	43.4	42.4	41.9	41.9	40.4	39.9	38.4	36.9	31.9
5°	77.8	76.3	74.3	74.3	69.8	67.4	63.9	59.9	56.9	51.9	36.9
7.5°	176.6	164.6	161.2	156.7	139.7	126.2	110.8	97.3	84.8	74.3	40.9
10°	445.5	422.1	402.6	363.2	313.8	266.4	222.5	171.6	136.7	108.8	43.9
12.5°	897.6	866.1	828.7	756.9	664.6	546.3	441.5	329.8	231.5	160.2	44.9
15°	1421.4	1368.0	1309.7	1218.4	1067.2	897.6	708.5	530.4	371.7	242.0	43.9
17.5°	1848.5	1827.5	1741.2	1616.5	1431.4	1212.9	979.9	736.4	501.4	316.8	40.9
20°	2163.8	2149.3	2045.1	1912.4	1703.8	1453.4	1157.5	865.1	591.7	364.2	36.4
22.5°	2316.0	2313.5	2238.2	2102.4	1881.4	1597.5	1271.7	939.5	619.7	370.7	30.4
25°	2296.0	2305.0	2262.1	2161.3	1949.3	1656.9	1305.7	939.5	599.2	343.3	25.4
27.5°	2205.2	2211.2	2184.3	2106.9	1909.4	1614.0	1258.3	879.1	539.8	294.9	21.0
30°	2142.9	2145.4	2111.9	2029.1	1819.6	1516.2	1146.5	767.3	450.0	236.5	15.5
32.5°	2067.0	2066.5	2027.6	1932.8	1701.8	1379.0	1004.8	634.1	345.8	179.6	9.0
35°	1956.3	1943.8	1890.9	1781.6	1526.2	1194.4	823.7	483.0	249.0	127.2	5.5
37.5°	1804.1	1771.7	1696.8	1550.6	1279.7	936.5	610.7	339.3	170.1	84.3	3.5
40°	1560.1	1525.7	1423.9	1246.3	967.9	674.0	411.6	221.0	107.3	50.4	2.0
42.5°	1223.3	1199.9	1062.7	885.6	639.1	430.1	247.5	130.7	60.4	28.9	0.5
45°	845.2	814.7	707.0	556.8	383.7	238.5	138.7	68.4	34.4	17.5	0.0
47.5°	466.5	429.1	366.7	288.4	193.1	125.2	69.8	36.9	19.5	8.5	0.0
50°	186.6	185.1	147.2	104.8	73.8	56.9	34.9	20.0	10.0	3.0	0.5
52.5°	65.4	65.4	56.4	45.9	35.9	25.9	17.5	9.5	3.5	1.0	0.5
55°	14.5	16.0	15.0	14.0	13.5	11.5	7.5	3.5	1.0	0.0	0.5
57.5°	1.5	1.5	1.5	2.0	2.5	2.5	2.0	1.0	0.0	0.0	0.5
60°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	1.0
62.5°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.5	0.5	1.0
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5
75°	0.0	0.0	0.5	0.5	0.0	0.5	0.5	0.5	0.5	0.5	1.5
77.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	1.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	1.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.0
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°	25.9	25.9	25.9	25.9	25.9
2.5°	25.9	20.5	17.0	15.0	14.5
5°	24.4	15.5	11.0	9.5	9.0
7.5°	22.0	11.5	7.5	6.0	5.5
10°	19.0	8.5	5.0	3.5	3.5
12.5°	16.0	6.5	3.0	1.5	1.0
15°	13.0	4.0	1.0	0.5	0.5
17.5°	10.0	2.5	0.0	0.0	0.0
20°	8.0	1.0	0.0	0.0	0.0
22.5°	6.0	0.5	0.0	0.0	0.0
25°	4.0	0.0	0.0	0.0	0.0
27.5°	2.5	0.0	0.0	0.0	0.0
30°	1.5	0.0	0.0	0.0	0.0
32.5°	0.5	0.0	0.0	0.0	0.0
35°	0.5	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.5	0.0	0.0	0.5	0.5
47.5°	0.5	0.5	0.5	1.0	1.0
50°	0.5	0.5	0.5	1.0	1.5
52.5°	1.0	0.5	1.0	1.5	1.5
55°	1.0	1.0	1.5	2.0	2.0
57.5°	1.0	1.0	1.5	2.0	2.0
60°	1.0	1.0	1.5	2.0	2.5
62.5°	1.5	1.5	1.5	2.0	2.0
65°	1.5	1.5	1.5	2.0	2.5
67.5°	1.5	1.5	1.5	2.0	2.5
70°	1.5	1.5	1.5	2.0	2.0
72.5°	2.0	1.5	1.5	2.0	2.0
75°	1.5	1.5	1.5	1.5	1.5
77.5°	1.5	1.5	1.0	1.5	1.5
80°	1.5	1.0	1.0	1.0	1.0
82.5°	1.5	1.0	1.0	1.0	1.0
85°	1.5	1.0	0.5	0.5	0.5
87.5°	1.5	1.0	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)