

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: P1339977

Luminaire Tested: P3A09R159740DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339977
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A09R159740DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 97CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

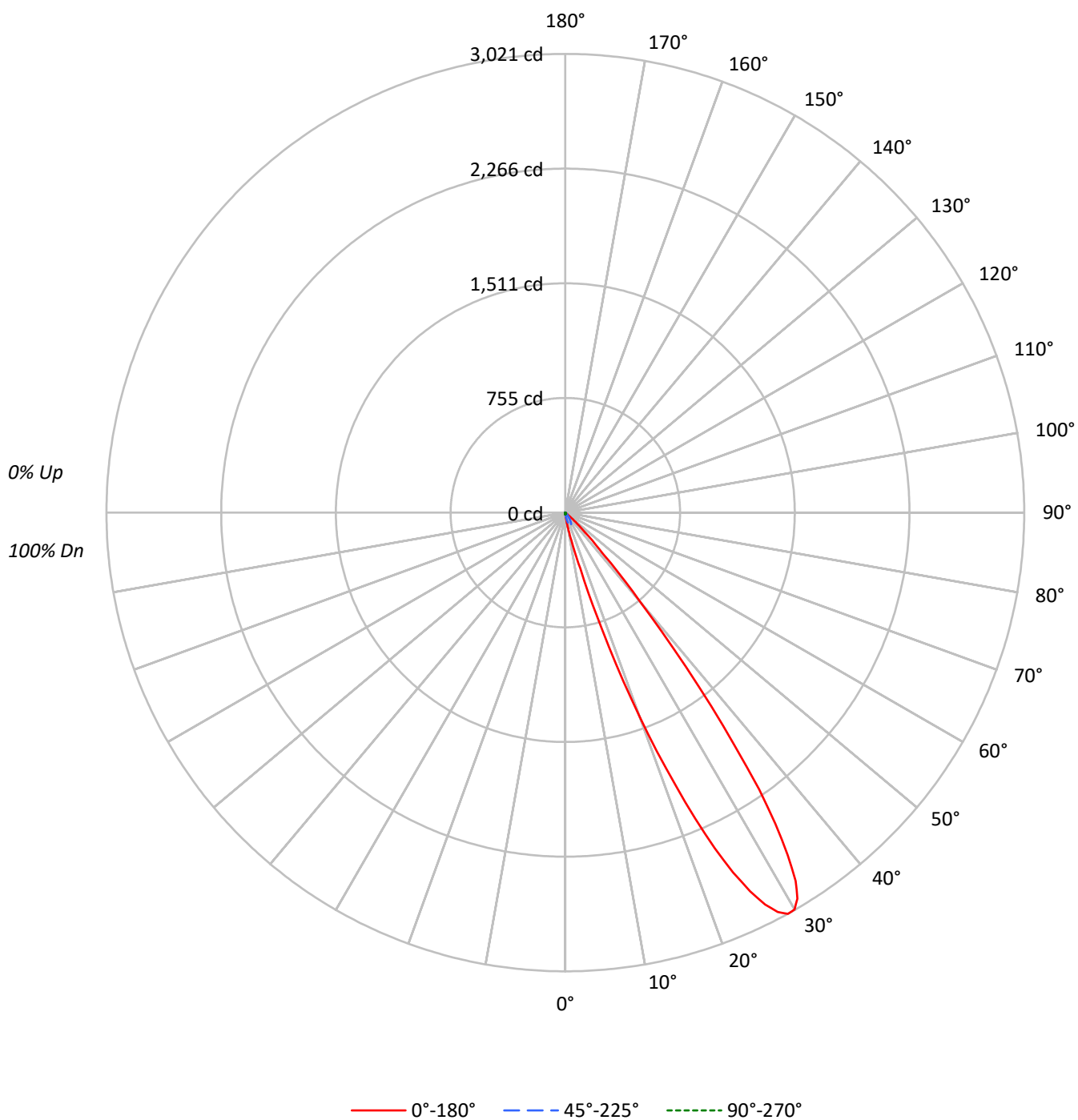
Lumens per Lamp: N/A
Luminaire Lumens: 330.0 lumens
Efficiency: N/A
Efficacy: 29.7 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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
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	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83	
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75	
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68	
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61	
6	81	71	64	59	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	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41	
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2390	2390	2390	2390	2390
5°	5151	3808	2267	1211	991
10°	22868	7214	1781	490	356
15°	86493	16686	1249	227	136
20°	332669	23522	747	70	70
25°	632601	22066	387	0	0
30°	764194	17800	152	0	0
35°	596017	12126	80	0	0
40°	217493	5983	86	0	86
45°	55851	1799	93	0	186
50°	9415	205	102	102	341
55°	1223	0	229	382	612
60°	132	132	439	570	833
65°	156	156	675	830	986
70°	192	192	833	833	1026
75°	254	254	1101	847	1101
80°	0	379	1263	758	1263
85°	0	755	2516	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 55851 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.5	0.5
10°-20°	25.3	7.7
20°-30°	140.2	42.5
30°-40°	135.5	41.1
40°-50°	23.6	7.1
50°-60°	1.7	0.5
60°-70°	1.0	0.3
70°-80°	0.8	0.2
80°-90°	0.4	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°	167.0	50.6
0°-40°	302.5	91.7
0°-60°	327.8	99.3
0°-90°	330.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	330.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11	11	11	11	11	
5°	23	17	10	6	4	5
15°	381	74	6	1	1	170
25°	2615	91	2	0	0	1169
35°	2226	45	0	0	0	1280
45°	180	6	0	0	1	193
55°	3	0	1	1	2	6
65°	0	0	1	2	2	0
75°	0	0	1	1	1	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
2.5°	16.1	15.4	15.7	15.7	15.7	15.7	15.7	15.1	15.1	15.4	13.8
5°	23.4	23.4	23.1	23.4	23.4	23.1	22.5	22.1	22.1	21.5	17.3
7.5°	46.9	46.2	46.2	45.6	42.4	41.4	40.8	39.2	36.3	35.6	22.5
10°	102.7	103.0	100.8	97.9	97.6	92.8	91.2	88.3	82.8	77.4	32.4
12.5°	186.5	182.3	176.9	177.2	167.9	164.7	157.3	149.3	140.9	132.3	53.3
15°	381.0	369.2	376.2	358.9	339.3	317.2	294.7	266.4	242.4	216.7	73.5
17.5°	802.5	814.1	794.5	720.3	674.8	621.1	545.7	472.8	410.6	360.5	89.9
20°	1425.6	1442.6	1376.2	1311.6	1200.9	1080.2	954.4	811.8	675.4	557.3	100.8
21°	1685.9	1675.7	1648.4	1545.0	1417.2	1277.3	1123.2	965.9	800.6	647.2	101.8
22°	1937.6	1942.4	1878.9	1770.7	1637.8	1482.7	1294.6	1100.4	922.3	720.3	100.2
23°	2188.3	2203.7	2119.6	2018.2	1850.9	1676.0	1458.3	1248.7	1028.5	804.1	96.9
24°	2420.4	2409.8	2353.0	2225.2	2046.4	1841.6	1615.6	1361.4	1115.8	875.7	94.4
25°	2614.6	2613.3	2524.1	2399.8	2195.4	1968.4	1719.3	1453.5	1190.6	924.2	91.2
26°	2773.5	2747.5	2677.2	2525.7	2323.8	2084.3	1804.4	1520.6	1232.7	948.6	88.0
27°	2896.1	2877.5	2783.1	2625.5	2414.6	2149.8	1859.0	1554.0	1251.9	956.6	83.8
28°	2978.6	2958.4	2857.9	2695.5	2464.7	2190.9	1887.8	1568.1	1251.9	948.9	79.9
29°	3021.3	2993.7	2893.6	2719.6	2476.2	2195.7	1880.8	1554.3	1232.3	925.1	75.4
30°	3018.1	2983.8	2878.8	2697.7	2441.9	2156.2	1841.3	1504.6	1188.0	889.8	70.3
31°	2966.1	2927.6	2810.4	2623.9	2371.0	2081.7	1766.8	1437.8	1127.4	843.9	65.2
32°	2860.5	2811.7	2697.4	2511.6	2261.8	1970.3	1658.6	1334.7	1036.5	776.8	59.7
33°	2688.4	2639.3	2516.7	2342.4	2114.2	1829.1	1515.2	1224.0	933.2	696.9	55.2
34°	2473.0	2428.1	2322.5	2146.9	1928.0	1650.3	1350.2	1070.9	826.0	617.6	50.4
35°	2226.5	2154.9	2059.3	1920.3	1706.8	1427.5	1172.0	928.4	715.5	534.5	45.3
36°	1893.0	1905.8	1804.4	1634.2	1457.4	1238.4	993.2	773.9	598.4	455.5	40.8
37°	1597.3	1577.1	1512.6	1381.0	1226.9	1009.6	832.4	656.1	503.3	385.2	36.0
38°	1288.5	1293.0	1229.8	1128.7	975.9	830.1	669.9	539.0	421.2	327.7	31.5
39°	1008.6	1005.1	988.1	894.3	756.0	660.3	542.8	446.8	350.9	276.4	26.6
40°	759.8	765.6	725.8	669.3	588.7	510.1	432.4	356.3	290.2	233.1	20.9
42.5°	369.5	378.5	352.1	337.7	302.1	271.3	228.9	186.8	158.9	137.4	9.3
45°	180.1	174.9	172.7	165.6	157.3	140.6	124.6	106.9	93.4	80.6	5.8
47.5°	92.1	89.6	89.6	86.7	83.8	78.3	70.3	64.5	58.1	50.1	2.2
50°	27.6	27.3	27.0	27.3	26.3	27.3	27.9	28.2	25.7	25.4	0.6
52.5°	10.9	11.2	10.9	11.9	11.9	11.6	11.9	11.6	11.2	10.0	0.0
55°	3.2	3.2	3.2	3.2	3.2	3.2	3.5	3.9	3.5	3.9	0.0
57.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0
60°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.3
62.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
65°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	10.9	10.9	10.9	10.9	10.9	10.9
2.5°	12.8	11.2	9.3	7.7	7.1	6.7
5°	13.8	10.3	7.1	5.5	4.8	4.5
7.5°	14.8	9.3	5.5	3.9	2.9	2.6
10°	15.4	8.0	4.2	2.2	1.6	1.6
12.5°	15.4	6.4	2.9	1.3	1.0	1.0
15°	15.1	5.5	1.9	1.0	0.6	0.6
17.5°	14.8	4.2	1.3	0.6	0.3	0.6
20°	13.8	3.2	0.6	0.3	0.3	0.3
21°	13.5	2.9	0.6	0.3	0.3	0.3
22°	12.8	2.6	0.3	0.0	0.3	0.3
23°	12.2	1.9	0.3	0.0	0.0	0.0
24°	11.2	1.6	0.3	0.0	0.0	0.0
25°	10.6	1.6	0.3	0.0	0.0	0.0
26°	10.0	1.0	0.0	0.0	0.0	0.0
27°	9.0	0.6	0.0	0.0	0.0	0.0
28°	8.3	0.6	0.0	0.0	0.0	0.0
29°	7.4	0.6	0.0	0.0	0.0	0.0
30°	6.4	0.6	0.0	0.0	0.0	0.0
31°	5.1	0.3	0.0	0.0	0.0	0.0
32°	4.2	0.3	0.0	0.0	0.0	0.0
33°	2.9	0.3	0.0	0.0	0.0	0.0
34°	1.9	0.3	0.0	0.0	0.0	0.0
35°	1.6	0.3	0.0	0.0	0.0	0.0
36°	1.0	0.3	0.0	0.0	0.0	0.3
37°	1.0	0.3	0.0	0.0	0.0	0.3
38°	0.6	0.3	0.0	0.0	0.0	0.3
39°	0.3	0.3	0.0	0.0	0.0	0.3
40°	0.3	0.3	0.0	0.0	0.0	0.3
42.5°	0.0	0.3	0.0	0.0	0.3	0.6
45°	0.0	0.3	0.0	0.0	0.3	0.6
47.5°	0.0	0.3	0.0	0.0	0.6	0.6
50°	0.0	0.3	0.3	0.3	0.6	1.0
52.5°	0.0	0.6	0.3	0.6	1.0	1.3
55°	0.3	0.6	0.6	1.0	1.3	1.6
57.5°	0.3	1.0	1.0	1.3	1.6	1.6
60°	0.6	1.0	1.3	1.3	1.9	1.9
62.5°	0.6	1.3	1.3	1.3	1.9	1.9
65°	0.6	1.3	1.3	1.6	1.9	1.9
67.5°	0.6	1.3	1.3	1.3	1.6	1.9
70°	0.6	1.3	1.0	1.3	1.6	1.6
72.5°	0.6	1.3	1.0	1.0	1.3	1.6
75°	0.6	1.3	1.0	1.0	1.3	1.3
77.5°	0.6	1.0	1.0	0.6	1.0	1.0
80°	0.6	1.0	0.6	0.6	1.0	1.0



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.6	1.0	0.6	0.3	0.6	0.6
85°	0.6	1.0	0.6	0.3	0.3	0.3
87.5°	0.6	1.0	0.3	0.0	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)