

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: P1344055

Luminaire Tested: P3A13R209830DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344055
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R209830DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

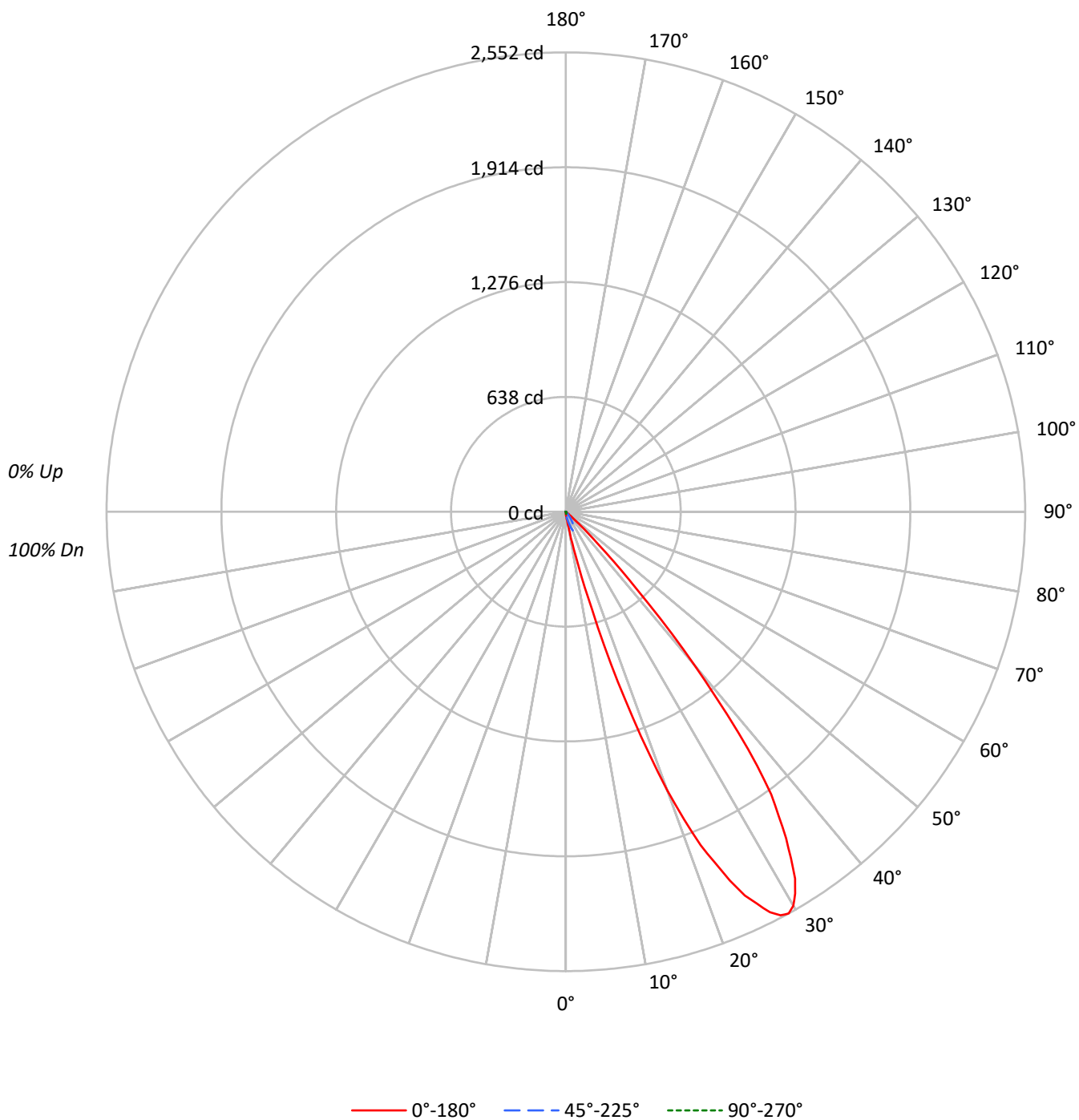
Lumens per Lamp: N/A
Luminaire Lumens: 357.9 lumens
Efficiency: N/A
Efficacy: 24.7 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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	76	71		79	74	71		77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64		72	68	64		71	67	63	61
6	81	71	64	59	80	70	63	58	68	62	58		67	62	58		65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52		62	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	43	41
10	62	51	44	39	61	50	44	39	49	43	39		48	43	39		48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2697	2697	2697	2697	2697
5°	6229	4644	2575	1563	1365
10°	19594	8105	2093	868	646
15°	126970	14960	1544	295	68
20°	383190	25622	1050	0	0
25°	569089	25864	629	0	0
30°	639972	19649	253	0	0
35°	552169	11725	161	0	0
40°	317967	4008	0	0	0
45°	77558	1613	93	0	93
50°	9313	443	102	102	341
55°	1223	0	229	229	497
60°	132	0	439	439	702
65°	156	156	675	675	986
70°	192	192	833	833	1026
75°	0	254	1101	847	1101
80°	0	379	1263	758	1263
85°	0	755	2516	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 78055 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.7	0.5
10°-20°	33.2	9.3
20°-30°	144.6	40.4
30°-40°	145.6	40.7
40°-50°	29.2	8.2
50°-60°	1.5	0.4
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°	179.4	50.1
0°-40°	325.1	90.8
0°-60°	355.7	99.4
0°-90°	357.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	357.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	28	21	12	7	6	4
15°	559	66	7	1	0	219
25°	2352	107	3	0	0	1061
35°	2063	44	1	0	0	1227
45°	250	5	0	0	0	272
55°	3	0	1	1	1	6
65°	0	0	1	1	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°	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
2.5°	18.5	18.5	18.2	18.2	17.9	18.2	17.5	17.9	17.9	17.5	15.9
5°	28.3	28.9	28.6	28.6	28.3	28.6	27.9	27.3	26.6	26.6	21.1
7.5°	46.4	46.1	45.5	45.8	44.8	44.2	43.5	43.2	41.2	40.3	27.6
10°	88.0	90.0	88.3	88.0	82.2	81.8	77.9	72.4	67.6	65.0	36.4
12.5°	242.3	252.7	236.4	228.7	224.1	206.6	199.1	179.9	161.4	147.5	46.1
15°	559.3	584.9	552.1	554.4	527.1	477.1	433.3	395.6	351.1	306.3	65.9
17.5°	1095.8	1075.1	1057.2	1027.0	971.4	898.0	803.5	707.7	624.9	538.2	91.9
20°	1642.1	1623.6	1583.0	1517.1	1446.3	1337.5	1225.1	1081.2	941.9	811.3	109.8
21°	1830.2	1824.0	1757.4	1716.8	1607.7	1503.8	1374.2	1220.2	1063.4	908.8	112.7
22°	1998.1	1961.1	1925.4	1865.3	1756.8	1643.8	1499.6	1337.5	1167.3	995.5	113.0
23°	2114.4	2097.5	2063.7	1995.8	1888.0	1755.2	1603.2	1433.6	1254.3	1056.9	112.1
24°	2243.0	2221.6	2172.2	2093.0	1984.1	1852.9	1679.5	1511.3	1316.4	1108.5	109.5
25°	2352.1	2318.7	2260.2	2174.8	2055.9	1920.5	1746.1	1561.3	1359.6	1143.3	106.9
26°	2422.9	2404.8	2329.7	2236.8	2109.5	1969.9	1791.9	1599.6	1387.5	1159.2	102.6
27°	2496.7	2463.2	2389.5	2282.6	2144.6	2002.0	1817.9	1618.1	1397.3	1159.8	97.4
28°	2538.9	2502.5	2419.0	2306.7	2167.3	2019.9	1832.8	1624.0	1395.3	1149.8	91.3
29°	2552.2	2506.4	2424.9	2310.6	2172.9	2021.2	1830.5	1615.5	1378.1	1125.1	84.1
30°	2527.5	2480.8	2403.5	2292.0	2155.3	2004.9	1809.4	1587.6	1347.6	1089.7	77.6
31°	2473.6	2434.0	2359.3	2247.6	2116.3	1966.9	1761.7	1541.8	1295.6	1042.3	70.2
32°	2402.5	2363.5	2290.1	2189.1	2055.6	1904.9	1696.4	1470.3	1234.5	971.4	62.7
33°	2295.6	2273.2	2207.3	2110.8	1977.3	1816.2	1608.7	1384.9	1147.5	892.9	56.2
34°	2187.5	2159.2	2113.1	2007.5	1864.0	1703.2	1494.4	1267.0	1041.3	804.8	50.0
35°	2062.7	2045.9	1973.4	1889.0	1744.8	1580.4	1372.9	1152.4	917.5	706.7	43.8
36°	1941.9	1915.9	1833.4	1744.1	1604.1	1426.5	1221.5	1014.3	810.7	614.8	37.4
37°	1766.5	1726.9	1668.1	1573.9	1410.2	1258.9	1071.8	879.5	679.1	515.4	30.2
38°	1560.3	1541.8	1460.3	1365.4	1230.0	1086.4	901.3	738.2	560.3	430.3	23.1
39°	1317.0	1316.7	1238.8	1170.2	1037.7	908.4	741.5	599.2	462.5	346.6	17.9
40°	1110.8	1072.5	1024.4	938.3	836.7	726.9	580.7	469.0	358.9	279.3	14.0
42.5°	582.3	579.1	550.8	486.2	429.4	364.7	290.0	241.6	189.0	154.0	8.8
45°	250.1	251.7	232.2	222.5	200.4	173.4	146.5	122.1	104.6	84.8	5.2
47.5°	63.3	60.7	60.1	62.4	62.4	60.4	54.2	51.0	47.1	43.2	2.9
50°	27.3	26.6	26.0	26.0	24.4	23.4	21.8	19.8	18.2	16.2	1.3
52.5°	10.1	10.4	10.7	10.4	10.4	10.1	10.1	9.7	8.8	7.8	0.6
55°	3.2	3.2	3.2	3.6	3.6	3.9	3.9	3.9	3.9	3.6	0.0
57.5°	0.6	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.3	0.0
60°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
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	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.0	0.3	0.0	0.3	0.3	0.0	0.3	0.3	0.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	12.3	12.3	12.3	12.3	12.3	12.3
2.5°	14.3	12.7	10.7	9.1	8.8	8.4
5°	15.9	11.7	8.8	7.1	6.5	6.2
7.5°	17.2	10.7	7.1	5.2	4.5	4.2
10°	17.9	9.4	5.8	3.9	2.9	2.9
12.5°	18.2	8.1	4.2	2.6	1.6	1.6
15°	17.9	6.8	3.2	1.3	0.3	0.3
17.5°	16.2	5.5	1.9	0.3	0.0	0.0
20°	14.0	4.5	1.3	0.0	0.0	0.0
21°	13.3	3.9	1.0	0.0	0.0	0.0
22°	12.3	3.6	0.6	0.0	0.0	0.0
23°	11.4	3.2	0.6	0.0	0.0	0.0
24°	10.4	2.9	0.3	0.0	0.0	0.0
25°	9.7	2.6	0.3	0.0	0.0	0.0
26°	9.1	2.3	0.3	0.0	0.0	0.0
27°	8.1	1.9	0.0	0.0	0.0	0.0
28°	7.5	1.6	0.0	0.0	0.0	0.0
29°	6.5	1.3	0.0	0.0	0.0	0.0
30°	5.5	1.0	0.0	0.0	0.0	0.0
31°	4.5	1.0	0.0	0.0	0.0	0.0
32°	3.9	0.6	0.0	0.0	0.0	0.0
33°	3.2	0.6	0.0	0.0	0.0	0.0
34°	2.9	0.6	0.0	0.0	0.0	0.0
35°	2.6	0.6	0.0	0.0	0.0	0.0
36°	1.9	0.3	0.0	0.0	0.0	0.0
37°	1.6	0.3	0.0	0.0	0.0	0.0
38°	1.3	0.3	0.0	0.0	0.0	0.0
39°	1.0	0.0	0.0	0.0	0.0	0.0
40°	1.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.3	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.3	0.0	0.0	0.3	0.3
47.5°	0.0	0.3	0.0	0.0	0.3	0.6
50°	0.0	0.3	0.3	0.3	0.6	1.0
52.5°	0.0	0.6	0.3	0.3	1.0	1.0
55°	0.3	0.6	0.3	0.6	1.3	1.3
57.5°	0.3	0.6	0.6	1.0	1.3	1.6
60°	0.6	1.0	1.0	1.0	1.6	1.6
62.5°	0.6	1.0	1.3	1.3	1.6	1.9
65°	0.6	1.3	1.3	1.3	1.6	1.9
67.5°	1.0	1.3	1.3	1.3	1.6	1.9
70°	1.0	1.3	1.3	1.3	1.6	1.6
72.5°	1.0	1.3	1.0	1.3	1.3	1.6
75°	1.0	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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	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	0.6	0.3	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)