

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: P1344199

Luminaire Tested: P3A13R20W2N902750DE010 E3A301GPH_2700K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344199
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: P3A13R20W2N902750DE010 E3A301GPH_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 2700K CCT AND, 90CRI ,
E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

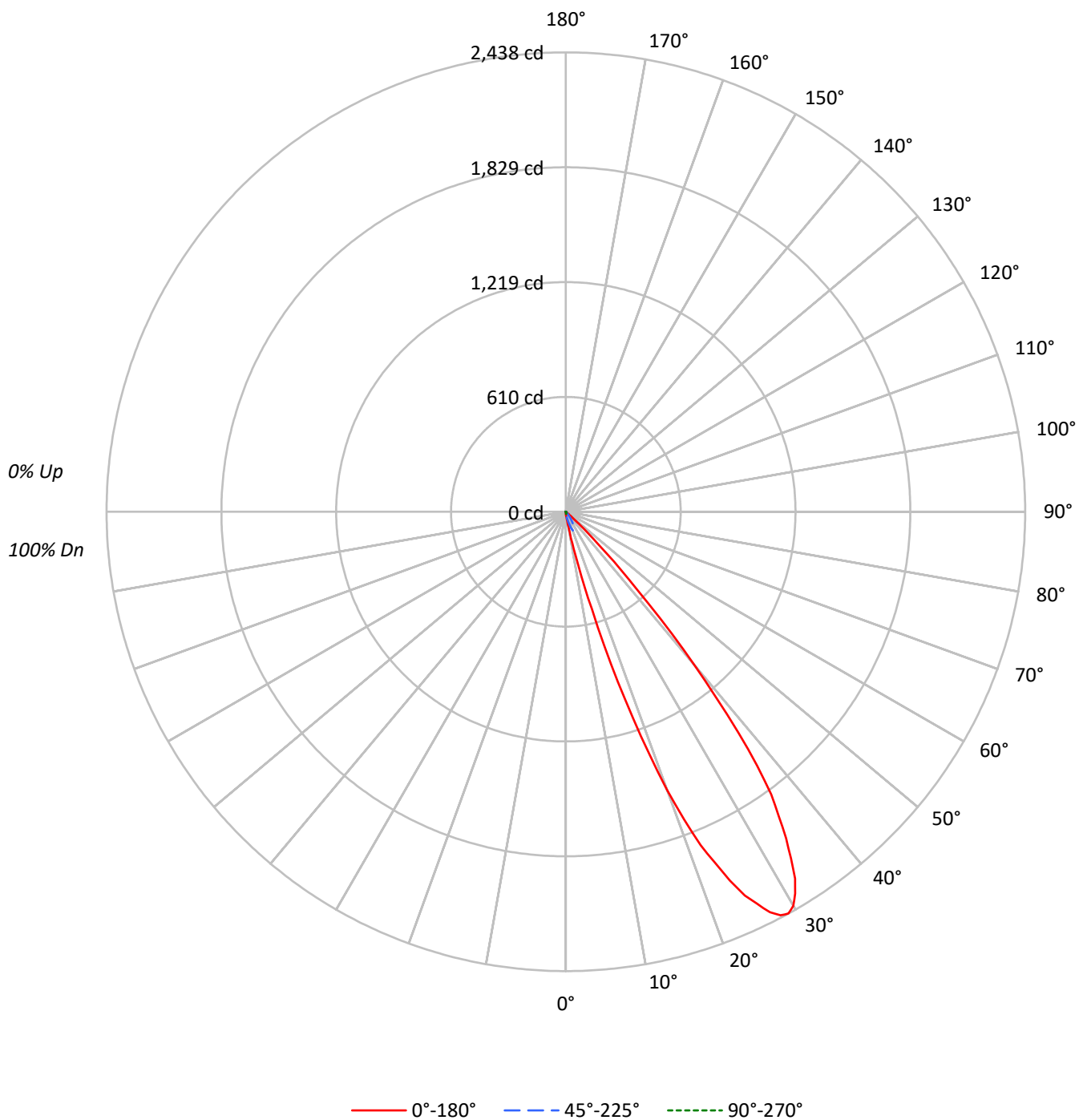
Lumens per Lamp: N/A
Luminaire Lumens: 341.9 lumens
Efficiency: N/A
Efficacy: 27.8 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 12.3
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	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°	2588	2588	2588	2588	2588
5°	5943	4446	2465	1497	1299
10°	18726	7749	2004	824	623
15°	121295	14302	1476	272	68
20°	366085	24479	1003	0	0
25°	543660	24703	605	0	0
30°	611385	18788	228	0	0
35°	527514	11216	161	0	0
40°	303741	3807	0	0	0
45°	74085	1551	93	0	93
50°	8904	409	102	102	307
55°	1185	0	229	229	459
60°	132	0	395	395	702
65°	156	156	623	623	986
70°	192	192	769	769	1026
75°	0	254	1017	763	1017
80°	0	379	1137	758	1137
85°	0	755	2264	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 74581 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.6	0.5
10°-20°	31.7	9.3
20°-30°	138.1	40.4
30°-40°	139.1	40.7
40°-50°	27.9	8.2
50°-60°	1.4	0.4
60°-70°	0.9	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°	171.4	50.1
0°-40°	310.5	90.8
0°-60°	339.8	99.4
0°-90°	341.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	341.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	27	20	11	7	6	4
15°	534	63	6	1	0	209
25°	2247	102	2	0	0	1013
35°	1971	42	1	0	0	1172
45°	239	5	0	0	0	260
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°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
2.5°	17.7	17.7	17.4	17.4	17.1	17.4	16.8	17.1	17.1	16.8	15.2
5°	27.0	27.6	27.3	27.3	27.0	27.3	26.7	26.1	25.4	25.4	20.2
7.5°	44.4	44.1	43.4	43.7	42.8	42.2	41.6	41.3	39.4	38.5	26.4
10°	84.1	85.9	84.4	84.1	78.5	78.2	74.5	69.2	64.5	62.1	34.8
12.5°	231.5	241.4	225.9	218.4	214.1	197.3	190.2	171.9	154.2	140.9	44.1
15°	534.3	558.8	527.5	529.6	503.6	455.8	413.9	377.9	335.4	292.6	63.0
17.5°	1046.9	1027.0	1009.9	981.1	928.0	857.9	767.6	676.1	597.0	514.1	87.8
20°	1568.8	1551.1	1512.3	1449.3	1381.7	1277.7	1170.4	1032.9	899.8	775.1	104.9
21°	1748.4	1742.5	1678.9	1640.1	1535.9	1436.6	1312.8	1165.7	1015.8	868.1	107.7
22°	1908.8	1873.4	1839.3	1781.9	1678.3	1570.3	1432.5	1277.7	1115.1	951.0	108.0
23°	2019.9	2003.8	1971.5	1906.6	1803.6	1676.7	1531.5	1369.6	1198.3	1009.6	107.0
24°	2142.8	2122.3	2075.1	1999.4	1895.5	1770.1	1604.4	1443.7	1257.5	1059.0	104.6
25°	2247.0	2215.1	2159.2	2077.6	1964.0	1834.7	1668.0	1491.5	1298.8	1092.2	102.1
26°	2314.7	2297.3	2225.6	2136.9	2015.2	1881.8	1711.8	1528.1	1325.5	1107.4	98.0
27°	2385.1	2353.1	2282.7	2180.6	2048.7	1912.5	1736.6	1545.8	1334.8	1108.0	93.1
28°	2425.4	2390.7	2310.9	2203.6	2070.5	1929.6	1750.9	1551.4	1332.9	1098.4	87.2
29°	2438.1	2394.4	2316.5	2207.3	2075.7	1930.8	1748.7	1543.3	1316.5	1074.8	80.4
30°	2414.6	2369.9	2296.0	2189.6	2059.0	1915.3	1728.5	1516.6	1287.3	1041.0	74.2
31°	2363.1	2325.2	2253.8	2147.1	2021.8	1879.0	1682.9	1472.9	1237.7	995.7	67.0
32°	2295.1	2257.9	2187.7	2091.3	1963.7	1819.8	1620.6	1404.6	1179.4	928.0	59.9
33°	2193.0	2171.6	2108.6	2016.5	1889.0	1735.1	1536.8	1323.0	1096.2	852.9	53.7
34°	2089.7	2062.7	2018.6	1917.8	1780.7	1627.1	1427.6	1210.4	994.7	768.9	47.8
35°	1970.6	1954.4	1885.2	1804.6	1666.8	1509.8	1311.5	1100.9	876.5	675.2	41.9
36°	1855.1	1830.3	1751.5	1666.2	1532.4	1362.7	1166.9	969.0	774.4	587.4	35.7
37°	1687.6	1649.7	1593.6	1503.6	1347.2	1202.6	1023.9	840.2	648.8	492.4	28.9
38°	1490.6	1472.9	1395.0	1304.4	1175.0	1037.9	861.0	705.3	535.2	411.1	22.0
39°	1258.2	1257.9	1183.4	1117.9	991.3	867.8	708.4	572.5	441.8	331.1	17.1
40°	1061.1	1024.5	978.6	896.4	799.3	694.4	554.8	448.0	342.9	266.8	13.3
42.5°	556.3	553.2	526.2	464.5	410.2	348.4	277.1	230.8	180.6	147.1	8.4
45°	238.9	240.5	221.8	212.5	191.4	165.7	139.9	116.7	99.9	81.0	5.0
47.5°	60.5	58.0	57.4	59.6	59.6	57.7	51.8	48.7	45.0	41.3	2.8
50°	26.1	25.4	24.8	24.8	23.3	22.3	20.8	18.9	17.4	15.5	1.2
52.5°	9.6	9.9	10.2	9.9	9.9	9.6	9.6	9.3	8.4	7.4	0.6
55°	3.1	3.1	3.1	3.4	3.4	3.7	3.7	3.7	3.7	3.4	0.0
57.5°	0.6	0.6	0.9	0.9	0.9	0.9	0.9	0.9	1.2	1.2	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°	11.8	11.8	11.8	11.8	11.8	11.8
2.5°	13.7	12.1	10.2	8.7	8.4	8.1
5°	15.2	11.2	8.4	6.8	6.2	5.9
7.5°	16.4	10.2	6.8	5.0	4.3	4.0
10°	17.1	9.0	5.6	3.7	2.8	2.8
12.5°	17.4	7.8	4.0	2.5	1.6	1.6
15°	17.1	6.5	3.1	1.2	0.3	0.3
17.5°	15.5	5.3	1.9	0.3	0.0	0.0
20°	13.3	4.3	1.2	0.0	0.0	0.0
21°	12.7	3.7	0.9	0.0	0.0	0.0
22°	11.8	3.4	0.6	0.0	0.0	0.0
23°	10.9	3.1	0.6	0.0	0.0	0.0
24°	9.9	2.8	0.3	0.0	0.0	0.0
25°	9.3	2.5	0.3	0.0	0.0	0.0
26°	8.7	2.2	0.3	0.0	0.0	0.0
27°	7.8	1.9	0.0	0.0	0.0	0.0
28°	7.1	1.6	0.0	0.0	0.0	0.0
29°	6.2	1.2	0.0	0.0	0.0	0.0
30°	5.3	0.9	0.0	0.0	0.0	0.0
31°	4.3	0.9	0.0	0.0	0.0	0.0
32°	3.7	0.6	0.0	0.0	0.0	0.0
33°	3.1	0.6	0.0	0.0	0.0	0.0
34°	2.8	0.6	0.0	0.0	0.0	0.0
35°	2.5	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°	1.2	0.3	0.0	0.0	0.0	0.0
39°	0.9	0.0	0.0	0.0	0.0	0.0
40°	0.9	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	0.9
52.5°	0.0	0.6	0.3	0.3	0.9	0.9
55°	0.3	0.6	0.3	0.6	1.2	1.2
57.5°	0.3	0.6	0.6	0.9	1.2	1.6
60°	0.6	0.9	0.9	0.9	1.6	1.6
62.5°	0.6	0.9	1.2	1.2	1.6	1.9
65°	0.6	1.2	1.2	1.2	1.6	1.9
67.5°	0.9	1.2	1.2	1.2	1.6	1.9
70°	0.9	1.2	1.2	1.2	1.6	1.6
72.5°	0.9	1.2	0.9	1.2	1.2	1.6
75°	0.9	1.2	0.9	0.9	1.2	1.2
77.5°	0.6	0.9	0.9	0.6	0.9	0.9
80°	0.6	0.9	0.6	0.6	0.9	0.9



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.6	0.9	0.6	0.3	0.6	0.6
85°	0.6	0.9	0.6	0.3	0.3	0.3
87.5°	0.6	0.9	0.6	0.3	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)