

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: P1340509

Luminaire Tested: P3A09R209830DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1340509
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: P3A09R209830DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

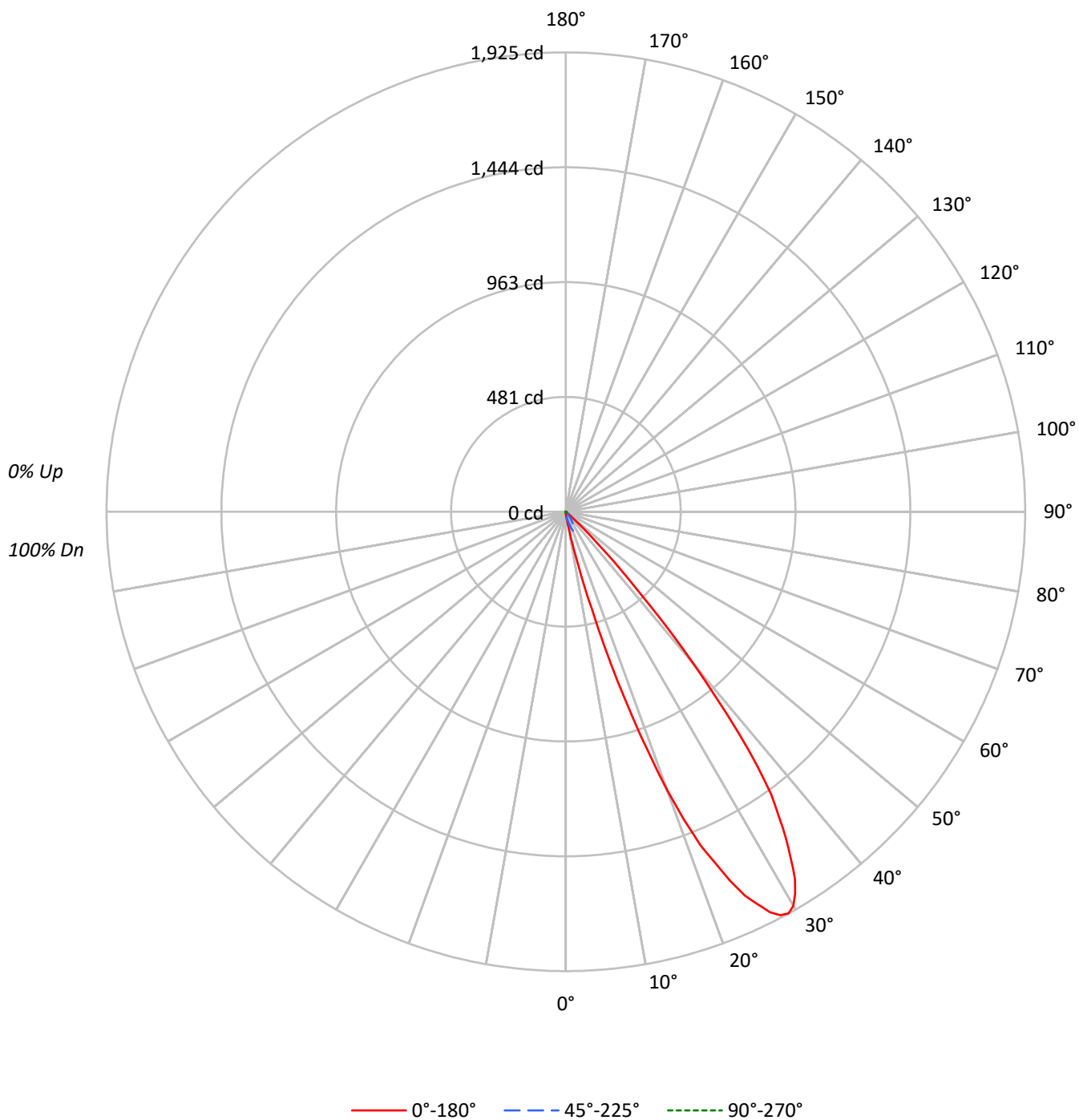
Lumens per Lamp: N/A
Luminaire Lumens: 269.9 lumens
Efficiency: N/A
Efficacy: 24.5 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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	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°	2039	2039	2039	2039	2039
5°	4689	3500	1937	1189	1035
10°	14785	6101	1581	646	490
15°	95755	11283	1158	227	45
20°	289008	19322	793	0	0
25°	429218	19501	484	0	0
30°	482657	14812	177	0	0
35°	416449	8861	134	0	0
40°	239792	3006	0	0	0
45°	58487	1209	62	0	62
50°	7027	341	68	68	239
55°	918	0	191	191	382
60°	88	0	307	307	526
65°	104	104	519	519	778
70°	128	128	641	641	769
75°	0	169	847	593	847
80°	0	253	884	631	884
85°	0	503	1761	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 58859 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.2	0.5
10°-20°	25.0	9.3
20°-30°	109.1	40.4
30°-40°	109.8	40.7
40°-50°	22.0	8.2
50°-60°	1.1	0.4
60°-70°	0.7	0.3
70°-80°	0.6	0.2
80°-90°	0.3	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°	135.3	50.1
0°-40°	245.2	90.8
0°-60°	268.3	99.4
0°-90°	269.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	269.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9	9	9	9	9	
5°	21	16	9	5	5	3
15°	422	50	5	1	0	165
25°	1774	81	2	0	0	800
35°	1556	33	0	0	0	926
45°	189	4	0	0	0	205
55°	2	0	0	0	1	5
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°	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
2.5°	14.0	14.0	13.7	13.7	13.5	13.7	13.2	13.5	13.5	13.2	12.0
5°	21.3	21.8	21.6	21.6	21.3	21.6	21.1	20.6	20.1	20.1	15.9
7.5°	35.0	34.8	34.3	34.5	33.8	33.3	32.8	32.6	31.1	30.4	20.8
10°	66.4	67.9	66.6	66.4	62.0	61.7	58.8	54.6	51.0	49.0	27.4
12.5°	182.7	190.6	178.3	172.4	169.0	155.8	150.2	135.7	121.7	111.2	34.8
15°	421.8	441.2	416.4	418.1	397.6	359.8	326.8	298.4	264.8	231.0	49.7
17.5°	826.5	810.8	797.3	774.5	732.7	677.3	606.0	533.8	471.3	405.9	69.3
20°	1238.5	1224.5	1193.9	1144.2	1090.8	1008.7	924.0	815.5	710.4	611.9	82.8
21°	1380.3	1375.7	1325.4	1294.8	1212.5	1134.1	1036.4	920.3	802.0	685.4	85.0
22°	1507.0	1479.0	1452.1	1406.8	1325.0	1239.7	1131.0	1008.7	880.4	750.8	85.2
23°	1594.7	1581.9	1556.4	1505.2	1423.9	1323.7	1209.1	1081.2	946.0	797.1	84.5
24°	1691.7	1675.5	1638.3	1578.5	1496.4	1397.5	1266.7	1139.8	992.8	836.0	82.5
25°	1774.0	1748.7	1704.6	1640.2	1550.6	1448.4	1316.9	1177.5	1025.4	862.2	80.6
26°	1827.4	1813.6	1757.1	1687.0	1591.0	1485.6	1351.4	1206.4	1046.4	874.2	77.4
27°	1883.0	1857.7	1802.1	1721.5	1617.4	1509.9	1371.0	1220.4	1053.8	874.7	73.5
28°	1914.8	1887.4	1824.4	1739.7	1634.6	1523.4	1382.3	1224.8	1052.3	867.1	68.8
29°	1924.8	1890.3	1828.8	1742.6	1638.7	1524.3	1380.6	1218.4	1039.3	848.5	63.4
30°	1906.2	1871.0	1812.7	1728.6	1625.5	1512.1	1364.6	1197.3	1016.3	821.8	58.5
31°	1865.6	1835.7	1779.3	1695.1	1596.1	1483.4	1328.6	1162.8	977.1	786.1	52.9
32°	1811.9	1782.5	1727.2	1651.0	1550.3	1436.7	1279.4	1108.9	931.1	732.7	47.3
33°	1731.3	1714.4	1664.7	1592.0	1491.3	1369.8	1213.3	1044.5	865.4	673.4	42.4
34°	1649.8	1628.5	1593.7	1514.1	1405.8	1284.5	1127.0	955.6	785.3	607.0	37.7
35°	1555.7	1543.0	1488.3	1424.7	1315.9	1191.9	1035.4	869.1	692.0	533.0	33.1
36°	1464.6	1445.0	1382.8	1315.4	1209.8	1075.8	921.3	765.0	611.4	463.7	28.2
37°	1332.3	1302.4	1258.1	1187.0	1063.6	949.4	808.3	663.3	512.2	388.7	22.8
38°	1176.8	1162.8	1101.3	1029.8	927.6	819.4	679.7	556.8	422.5	324.6	17.4
39°	993.3	993.0	934.3	882.6	782.6	685.1	559.2	451.9	348.8	261.4	13.5
40°	837.7	808.8	772.6	707.7	631.0	548.2	438.0	353.7	270.7	210.7	10.5
42.5°	439.2	436.8	415.4	366.7	323.8	275.1	218.7	182.2	142.6	116.1	6.6
45°	188.6	189.8	175.1	167.8	151.1	130.8	110.5	92.1	78.9	63.9	3.9
47.5°	47.8	45.8	45.3	47.0	47.0	45.6	40.9	38.5	35.5	32.6	2.2
50°	20.6	20.1	19.6	19.6	18.4	17.6	16.4	14.9	13.7	12.2	1.0
52.5°	7.6	7.8	8.1	7.8	7.8	7.6	7.6	7.3	6.6	5.9	0.5
55°	2.4	2.4	2.4	2.7	2.7	2.9	2.9	2.9	2.9	2.7	0.0
57.5°	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.0	0.0
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
62.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.0	0.2	0.0	0.2	0.2	0.0	0.2	0.2	0.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2



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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	0.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
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°	9.3	9.3	9.3	9.3	9.3	9.3
2.5°	10.8	9.6	8.1	6.9	6.6	6.4
5°	12.0	8.8	6.6	5.4	4.9	4.7
7.5°	13.0	8.1	5.4	3.9	3.4	3.2
10°	13.5	7.1	4.4	2.9	2.2	2.2
12.5°	13.7	6.1	3.2	2.0	1.2	1.2
15°	13.5	5.1	2.4	1.0	0.2	0.2
17.5°	12.2	4.2	1.5	0.2	0.0	0.0
20°	10.5	3.4	1.0	0.0	0.0	0.0
21°	10.0	2.9	0.7	0.0	0.0	0.0
22°	9.3	2.7	0.5	0.0	0.0	0.0
23°	8.6	2.4	0.5	0.0	0.0	0.0
24°	7.8	2.2	0.2	0.0	0.0	0.0
25°	7.3	2.0	0.2	0.0	0.0	0.0
26°	6.9	1.7	0.2	0.0	0.0	0.0
27°	6.1	1.5	0.0	0.0	0.0	0.0
28°	5.6	1.2	0.0	0.0	0.0	0.0
29°	4.9	1.0	0.0	0.0	0.0	0.0
30°	4.2	0.7	0.0	0.0	0.0	0.0
31°	3.4	0.7	0.0	0.0	0.0	0.0
32°	2.9	0.5	0.0	0.0	0.0	0.0
33°	2.4	0.5	0.0	0.0	0.0	0.0
34°	2.2	0.5	0.0	0.0	0.0	0.0
35°	2.0	0.5	0.0	0.0	0.0	0.0
36°	1.5	0.2	0.0	0.0	0.0	0.0
37°	1.2	0.2	0.0	0.0	0.0	0.0
38°	1.0	0.2	0.0	0.0	0.0	0.0
39°	0.7	0.0	0.0	0.0	0.0	0.0
40°	0.7	0.0	0.0	0.0	0.0	0.0
42.5°	0.2	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.2	0.0	0.0	0.2	0.2
47.5°	0.0	0.2	0.0	0.0	0.2	0.5
50°	0.0	0.2	0.2	0.2	0.5	0.7
52.5°	0.0	0.5	0.2	0.2	0.7	0.7
55°	0.2	0.5	0.2	0.5	1.0	1.0
57.5°	0.2	0.5	0.5	0.7	1.0	1.2
60°	0.5	0.7	0.7	0.7	1.2	1.2
62.5°	0.5	0.7	1.0	1.0	1.2	1.5
65°	0.5	1.0	1.0	1.0	1.2	1.5
67.5°	0.7	1.0	1.0	1.0	1.2	1.5
70°	0.7	1.0	1.0	1.0	1.2	1.2
72.5°	0.7	1.0	0.7	1.0	1.0	1.2
75°	0.7	1.0	0.7	0.7	1.0	1.0
77.5°	0.5	0.7	0.7	0.5	0.7	0.7
80°	0.5	0.7	0.5	0.5	0.7	0.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.5	0.7	0.5	0.2	0.5	0.5
85°	0.5	0.7	0.5	0.2	0.2	0.2
87.5°	0.5	0.7	0.5	0.2	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)