

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: P1345095

Luminaire Tested: P3A13R309840DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345095
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: P3A13R309840DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R30 optic, 4000K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

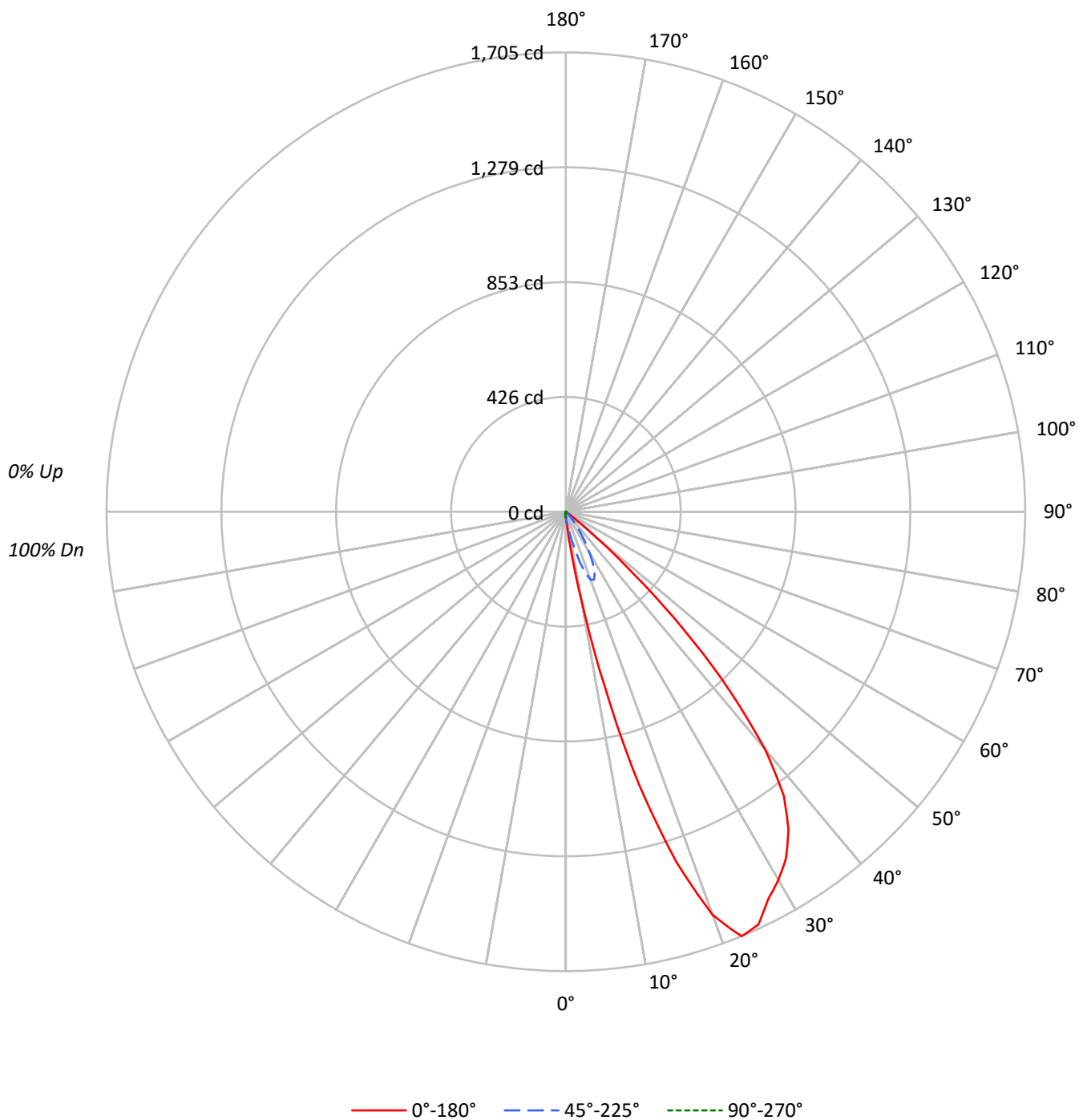
Lumens per Lamp: N/A
Luminaire Lumens: 402.0 lumens
Efficiency: N/A
Efficacy: 27.7 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96
2	106	100	95	92	103	98	94	90	95	92	88		92	89	87		89
3	99	92	86	81	97	90	85	81	87	83	79		85	81	78		83
4	93	84	77	72	91	83	77	72	80	75	71		78	74	70		76
5	87	77	70	65	85	76	69	65	74	68	64		72	67	63		71
6	81	71	64	58	80	70	63	58	68	62	58		67	61	57		65
7	76	65	58	53	74	64	57	53	63	57	52		61	56	52		60
8	71	60	53	48	70	59	52	48	58	52	47		57	51	47		56
9	67	55	48	43	65	55	48	43	53	47	43		52	47	43		52
10	62	51	44	39	61	50	44	39	49	43	39		49	43	39		48

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4188	4188	4188	4188	4188
5°	12613	8409	3962	1783	1453
10°	73034	17835	3117	824	579
15°	237572	40454	2179	159	91
20°	371756	62585	1377	0	0
25°	409016	61141	702	0	0
30°	399479	44083	279	0	0
35°	385557	25083	107	0	0
40°	328816	10620	0	0	0
45°	192981	4000	124	0	124
50°	46873	751	136	136	375
55°	4091	0	268	421	573
60°	175	0	307	482	789
65°	208	208	571	571	934
70°	256	256	705	705	962
75°	0	339	932	932	932
80°	0	505	1389	884	884
85°	0	1006	2768	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 192981 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.5	0.9
10°-20°	55.3	13.7
20°-30°	140.4	34.9
30°-40°	139.9	34.8
40°-50°	56.7	14.1
50°-60°	3.9	1.0
60°-70°	0.9	0.2
70°-80°	0.9	0.2
80°-90°	0.5	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°	199.2	49.5
0°-40°	339.1	84.4
0°-60°	399.7	99.4
0°-90°	402.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	402.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	19	19	19	19	19	
5°	57	38	18	8	7	13
15°	1046	178	10	1	0	305
25°	1690	253	3	0	0	763
35°	1440	94	0	0	0	883
45°	622	13	0	0	0	475
55°	11	0	1	1	2	28
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°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1
2.5°	31.6	32.0	32.0	31.2	30.9	30.9	29.8	29.4	28.3	27.2	23.5
5°	57.3	56.2	54.7	54.7	51.4	49.6	47.0	44.1	41.9	38.2	27.2
7.5°	130.0	121.2	118.6	115.3	102.9	92.9	81.5	71.6	62.4	54.7	30.1
10°	328.0	310.8	296.4	267.4	231.1	196.2	163.8	126.4	100.7	80.1	32.3
12.5°	660.8	637.7	610.1	557.2	489.3	402.2	325.1	242.8	170.4	117.9	33.1
15°	1046.5	1007.2	964.3	897.0	785.7	660.8	521.6	390.5	273.7	178.2	32.3
17.5°	1361.0	1345.6	1282.0	1190.2	1053.9	893.0	721.4	542.2	369.2	233.3	30.1
20°	1593.1	1582.5	1505.7	1408.0	1254.5	1070.0	852.2	637.0	435.7	268.2	26.8
22.5°	1705.2	1703.3	1647.9	1548.0	1385.2	1176.2	936.3	691.7	456.2	272.9	22.4
25°	1690.5	1697.1	1665.5	1591.3	1435.2	1219.9	961.3	691.7	441.2	252.7	18.7
27.5°	1623.6	1628.0	1608.2	1551.3	1405.8	1188.3	926.4	647.2	397.5	217.1	15.4
30°	1577.7	1579.5	1554.9	1494.0	1339.7	1116.3	844.1	565.0	331.3	174.1	11.4
32.5°	1521.9	1521.5	1492.9	1423.1	1253.0	1015.3	739.8	466.9	254.6	132.2	6.6
35°	1440.3	1431.1	1392.2	1311.8	1123.7	879.4	606.5	355.6	183.3	93.7	4.0
37.5°	1328.3	1304.4	1249.3	1141.7	942.2	689.5	449.6	249.8	125.3	62.1	2.6
40°	1148.7	1123.3	1048.4	917.6	712.6	496.3	303.1	162.7	79.0	37.1	1.5
42.5°	900.7	883.4	782.4	652.0	470.6	316.6	182.2	96.2	44.4	21.3	0.4
45°	622.3	599.9	520.5	409.9	282.5	175.6	102.1	50.3	25.3	12.9	0.0
47.5°	343.5	315.9	270.0	212.3	142.2	92.2	51.4	27.2	14.3	6.2	0.0
50°	137.4	136.3	108.4	77.1	54.4	41.9	25.7	14.7	7.3	2.2	0.4
52.5°	48.1	48.1	41.5	33.8	26.4	19.1	12.9	7.0	2.6	0.7	0.4
55°	10.7	11.8	11.0	10.3	9.9	8.4	5.5	2.6	0.7	0.0	0.4
57.5°	1.1	1.1	1.1	1.5	1.8	1.8	1.5	0.7	0.0	0.0	0.4
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.7
62.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.4	0.4	0.7
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1
75°	0.0	0.0	0.4	0.4	0.0	0.4	0.4	0.4	0.4	0.4	1.1
77.5°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.7
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°	19.1	19.1	19.1	19.1	19.1
2.5°	19.1	15.1	12.5	11.0	10.7
5°	18.0	11.4	8.1	7.0	6.6
7.5°	16.2	8.4	5.5	4.4	4.0
10°	14.0	6.2	3.7	2.6	2.6
12.5°	11.8	4.8	2.2	1.1	0.7
15°	9.6	2.9	0.7	0.4	0.4
17.5°	7.3	1.8	0.0	0.0	0.0
20°	5.9	0.7	0.0	0.0	0.0
22.5°	4.4	0.4	0.0	0.0	0.0
25°	2.9	0.0	0.0	0.0	0.0
27.5°	1.8	0.0	0.0	0.0	0.0
30°	1.1	0.0	0.0	0.0	0.0
32.5°	0.4	0.0	0.0	0.0	0.0
35°	0.4	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°	0.4	0.0	0.0	0.4	0.4
47.5°	0.4	0.4	0.4	0.7	0.7
50°	0.4	0.4	0.4	0.7	1.1
52.5°	0.7	0.4	0.7	1.1	1.1
55°	0.7	0.7	1.1	1.5	1.5
57.5°	0.7	0.7	1.1	1.5	1.5
60°	0.7	0.7	1.1	1.5	1.8
62.5°	1.1	1.1	1.1	1.5	1.5
65°	1.1	1.1	1.1	1.5	1.8
67.5°	1.1	1.1	1.1	1.5	1.8
70°	1.1	1.1	1.1	1.5	1.5
72.5°	1.5	1.1	1.1	1.5	1.5
75°	1.1	1.1	1.1	1.1	1.1
77.5°	1.1	1.1	0.7	1.1	1.1
80°	1.1	0.7	0.7	0.7	0.7
82.5°	1.1	0.7	0.7	0.7	0.7
85°	1.1	0.7	0.4	0.4	0.4
87.5°	1.1	0.7	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)