

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: P1337983

Luminaire Tested: P3A05R309830DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337983
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: P3A05R309830DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R30 optic, 3000K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

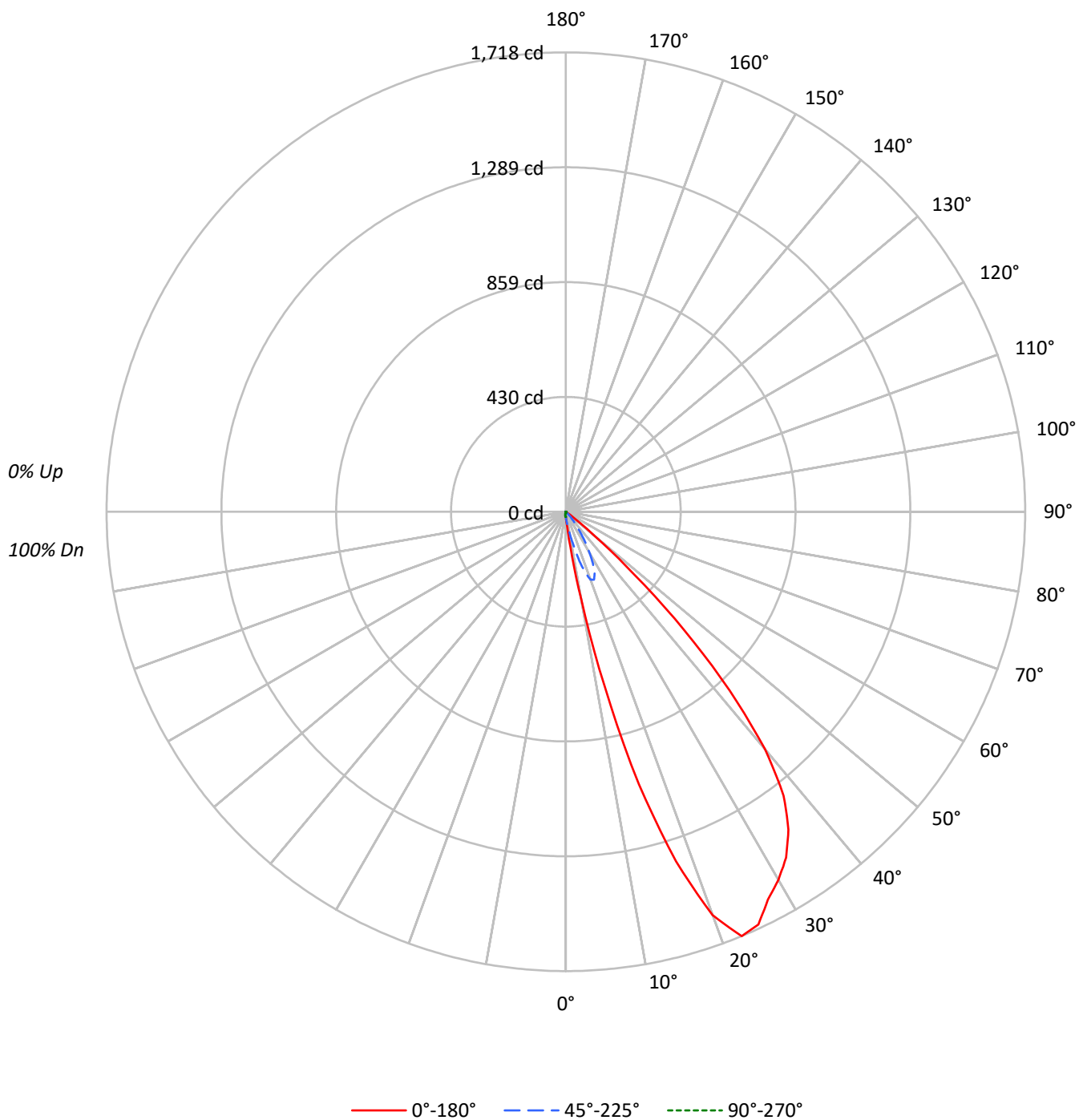
Lumens per Lamp: N/A
Luminaire Lumens: 405.0 lumens
Efficiency: N/A
Efficacy: 56.3 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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

TEST NUMBER: P1337983

CATALOG NUMBER: P3A05R309830DE010 E3CA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1337983

CATALOG NUMBER: P3A05R309830DE010 E3CA301MW

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93
2	106	100	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47
9	67	55	48	43	65	55	48	43	53	47	43	52	47	43	52	46	43
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4210	4210	4210	4210	4210
5°	12701	8475	3984	1783	1475
10°	73590	17969	3140	824	579
15°	239366	40749	2179	159	91
20°	374533	63052	1377	0	0
25°	412064	61600	726	0	0
30°	402467	44412	279	0	0
35°	388448	25270	107	0	0
40°	331249	10706	0	0	0
45°	194408	4031	124	0	124
50°	47214	751	136	136	375
55°	4091	0	268	421	573
60°	175	0	307	482	833
65°	208	208	571	571	986
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: 194408 cd/sqm

TEST NUMBER: P1337983

CATALOG NUMBER: P3A05R309830DE010 E3CA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.5	0.9
10°-20°	55.7	13.7
20°-30°	141.5	34.9
30°-40°	141.0	34.8
40°-50°	57.1	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°	200.7	49.5
0°-40°	341.6	84.4
0°-60°	402.7	99.4
0°-90°	405.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	405.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	19	19	19	19	19	
5°	58	38	18	8	7	13
15°	1054	180	10	1	0	307
25°	1703	255	3	0	0	769
35°	1451	94	0	0	0	889
45°	627	13	0	0	0	478
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	

TEST NUMBER: P1337983

CATALOG NUMBER: P3A05R309830DE010 E3CA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2
2.5°	31.8	32.2	32.2	31.5	31.1	31.1	30.0	29.6	28.5	27.4	23.7
5°	57.7	56.6	55.1	55.1	51.8	50.0	47.4	44.4	42.2	38.5	27.4
7.5°	131.0	122.1	119.5	116.2	103.6	93.6	82.2	72.2	62.9	55.1	30.3
10°	330.5	313.1	298.7	269.4	232.8	197.6	165.1	127.3	101.4	80.7	32.6
12.5°	665.8	642.5	614.7	561.4	492.9	405.2	327.5	244.6	171.7	118.8	33.3
15°	1054.4	1014.8	971.5	903.7	791.6	665.8	525.5	393.4	275.7	179.5	32.6
17.5°	1371.1	1355.6	1291.6	1199.1	1061.8	899.7	726.8	546.2	371.9	235.0	30.3
20°	1605.0	1594.3	1516.9	1418.5	1263.8	1078.0	858.6	641.7	438.9	270.2	27.0
22.5°	1717.9	1716.0	1660.2	1559.5	1395.6	1185.0	943.3	696.9	459.6	275.0	22.6
25°	1703.1	1709.8	1677.9	1603.2	1445.9	1229.0	968.5	696.9	444.5	254.6	18.9
27.5°	1635.7	1640.2	1620.2	1562.8	1416.3	1197.2	933.3	652.1	400.4	218.7	15.5
30°	1589.5	1591.3	1566.5	1505.1	1349.7	1124.7	850.4	569.2	333.8	175.4	11.5
32.5°	1533.2	1532.9	1504.0	1433.7	1262.3	1022.9	745.3	470.4	256.5	133.2	6.7
35°	1451.1	1441.8	1402.6	1321.5	1132.1	886.0	611.0	358.2	184.7	94.4	4.1
37.5°	1338.2	1314.1	1258.6	1150.2	949.2	694.6	453.0	251.7	126.2	62.5	2.6
40°	1157.2	1131.7	1056.2	924.5	717.9	500.0	305.3	163.9	79.6	37.4	1.5
42.5°	907.4	890.0	788.3	656.9	474.1	319.0	183.6	97.0	44.8	21.5	0.4
45°	626.9	604.3	524.4	413.0	284.6	176.9	102.9	50.7	25.5	13.0	0.0
47.5°	346.0	318.3	272.0	213.9	143.2	92.9	51.8	27.4	14.4	6.3	0.0
50°	138.4	137.3	109.2	77.7	54.8	42.2	25.9	14.8	7.4	2.2	0.4
52.5°	48.5	48.5	41.8	34.0	26.6	19.2	13.0	7.0	2.6	0.7	0.4
55°	10.7	11.8	11.1	10.4	10.0	8.5	5.6	2.6	0.7	0.0	0.4
57.5°	1.1	1.1	1.1	1.5	1.9	1.9	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

TEST NUMBER: P1337983

CATALOG NUMBER: P3A05R309830DE010 E3CA301MW

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	19.2	19.2	19.2	19.2	19.2
2.5°	19.2	15.2	12.6	11.1	10.7
5°	18.1	11.5	8.1	7.0	6.7
7.5°	16.3	8.5	5.6	4.4	4.1
10°	14.1	6.3	3.7	2.6	2.6
12.5°	11.8	4.8	2.2	1.1	0.7
15°	9.6	3.0	0.7	0.4	0.4
17.5°	7.4	1.9	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°	3.0	0.0	0.0	0.0	0.0
27.5°	1.9	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	1.9
62.5°	1.1	1.1	1.1	1.5	1.5
65°	1.1	1.1	1.1	1.5	1.9
67.5°	1.1	1.1	1.1	1.5	1.9
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)