

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: P1337887

Luminaire Tested: P3A05R309050DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337887
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: P3A05R309050DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R30 optic, 5000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

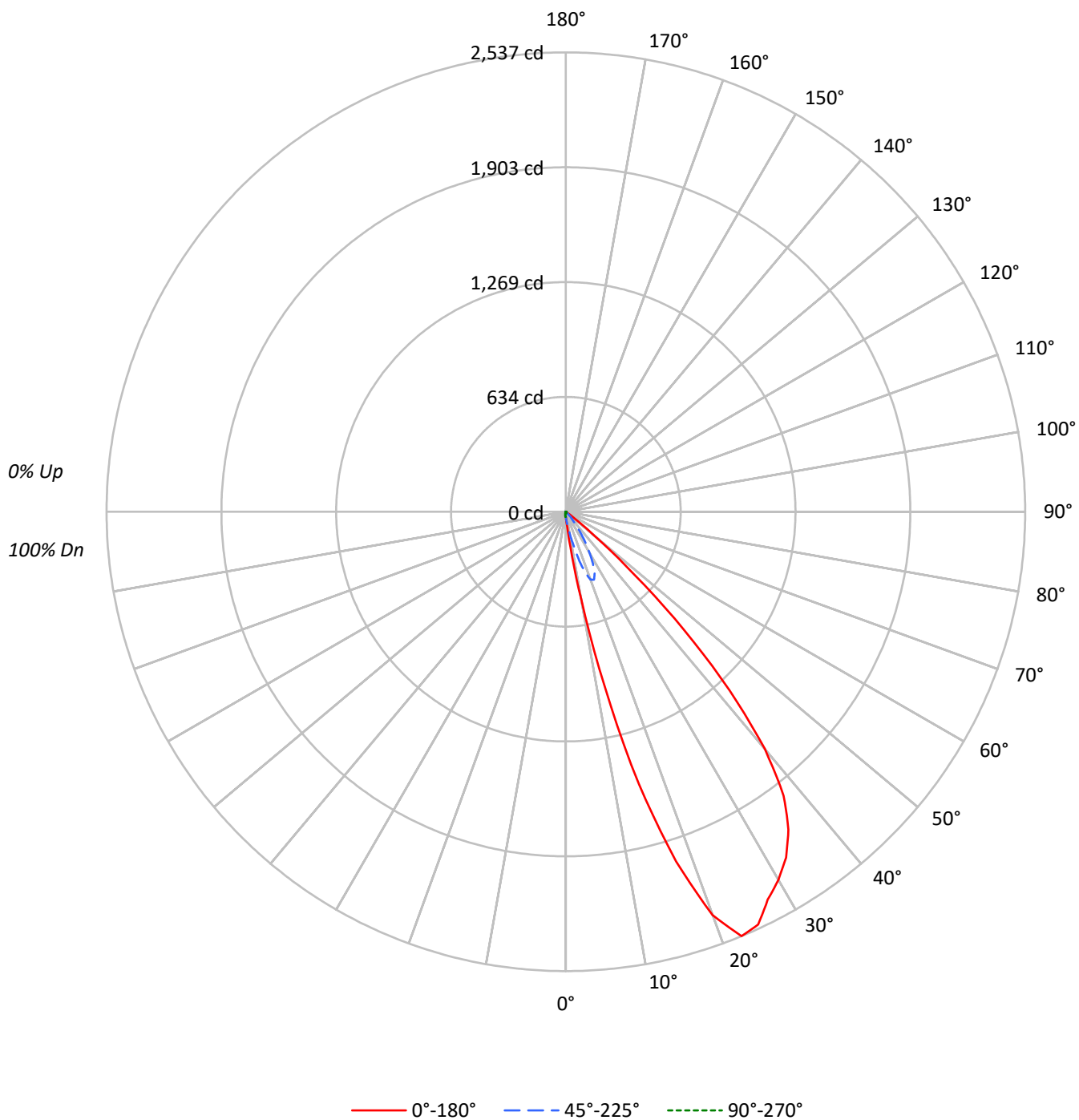
Lumens per Lamp: N/A
Luminaire Lumens: 597.9 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1337887

CATALOG NUMBER: P3A05R309050DE010 E3CA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1337887

CATALOG NUMBER: P3A05R309050DE010 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	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	95	92	104	98	94	90	95	92	88	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	75		
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61		
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	61	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	67	55	48	43	65	55	48	43	53	47	43	52	47	43	52	46	43	41		
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6228	6228	6228	6228	6228
5°	18754	12503	5899	2641	2157
10°	108660	26519	4631	1225	846
15°	353419	60159	3224	250	114
20°	553025	93085	2030	0	0
25°	608430	90949	1065	0	0
30°	594243	65580	405	0	0
35°	573557	37290	134	0	0
40°	489116	15801	0	0	0
45°	287069	5923	155	0	155
50°	69729	1126	171	171	546
55°	6040	0	421	612	841
60°	219	0	482	702	1184
65°	259	259	830	830	1401
70°	321	321	1026	1026	1410
75°	0	424	1356	1356	1356
80°	0	631	2020	1389	1389
85°	0	1258	4026	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 287069 cd/sqm

TEST NUMBER: P1337887

CATALOG NUMBER: P3A05R309050DE010 E3CA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.2	0.9
10°-20°	82.2	13.7
20°-30°	208.9	34.9
30°-40°	208.2	34.8
40°-50°	84.3	14.1
50°-60°	5.8	1.0
60°-70°	1.3	0.2
70°-80°	1.3	0.2
80°-90°	0.7	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°	296.3	49.6
0°-40°	504.4	84.4
0°-60°	594.6	99.4
0°-90°	597.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	597.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	28	28	28	28	28	
5°	85	57	27	12	10	20
15°	1557	265	14	1	0	453
25°	2515	376	4	0	0	1135
35°	2143	139	0	0	0	1313
45°	926	19	0	0	0	706
55°	16	0	1	2	2	41
65°	0	0	2	2	3	0
75°	0	0	2	2	2	0
85°	0	0	2	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1337887

CATALOG NUMBER: P3A05R309050DE010 E3CA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4
2.5°	47.0	47.5	47.5	46.4	45.9	45.9	44.3	43.7	42.1	40.4	35.0
5°	85.2	83.6	81.4	81.4	76.5	73.8	69.9	65.6	62.3	56.8	40.4
7.5°	193.4	180.3	176.5	171.6	153.0	138.2	121.3	106.6	92.9	81.4	44.8
10°	488.0	462.3	441.0	397.8	343.7	291.8	243.7	188.0	149.7	119.1	48.1
12.5°	983.0	948.6	907.6	828.9	727.9	598.3	483.6	361.2	253.5	175.4	49.2
15°	1556.8	1498.3	1434.4	1334.4	1168.8	983.0	775.9	580.9	407.1	265.0	48.1
17.5°	2024.5	2001.6	1907.1	1770.4	1567.7	1328.4	1073.2	806.5	549.2	347.0	44.8
20°	2369.9	2354.0	2239.8	2094.5	1866.1	1591.8	1267.7	947.5	648.1	398.9	39.9
22.5°	2536.6	2533.8	2451.3	2302.7	2060.6	1749.7	1392.9	1028.9	678.7	406.0	33.3
25°	2514.7	2524.5	2477.5	2367.2	2134.9	1814.7	1430.0	1028.9	656.3	375.9	27.9
27.5°	2415.2	2421.8	2392.3	2307.6	2091.2	1767.7	1378.1	962.8	591.2	322.9	23.0
30°	2346.9	2349.7	2313.1	2222.4	1992.8	1660.6	1255.7	840.4	492.9	259.0	16.9
32.5°	2263.9	2263.3	2220.7	2116.9	1863.9	1510.3	1100.5	694.5	378.7	196.7	9.8
35°	2142.6	2128.9	2071.0	1951.3	1671.5	1308.2	902.2	528.9	272.7	139.3	6.0
37.5°	1975.9	1940.4	1858.4	1698.3	1401.6	1025.7	668.8	371.6	186.3	92.3	3.8
40°	1708.7	1671.0	1559.5	1365.0	1060.1	738.2	450.8	242.1	117.5	55.2	2.2
42.5°	1339.9	1314.2	1163.9	969.9	700.0	471.0	271.0	143.2	66.1	31.7	0.5
45°	925.7	892.3	774.3	609.8	420.2	261.2	151.9	74.9	37.7	19.1	0.0
47.5°	510.9	469.9	401.6	315.8	211.5	137.2	76.5	40.4	21.3	9.3	0.0
50°	204.4	202.7	161.2	114.8	80.9	62.3	38.3	21.9	10.9	3.3	0.5
52.5°	71.6	71.6	61.7	50.3	39.3	28.4	19.1	10.4	3.8	1.1	0.5
55°	15.8	17.5	16.4	15.3	14.8	12.6	8.2	3.8	1.1	0.0	0.5
57.5°	1.6	1.6	1.6	2.2	2.7	2.7	2.2	1.1	0.0	0.0	0.5
60°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	1.1
62.5°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.5	0.5	1.1
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.6
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.6
75°	0.0	0.0	0.5	0.5	0.0	0.5	0.5	0.5	0.5	0.5	1.6
77.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	1.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	1.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.1
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: P1337887

CATALOG NUMBER: P3A05R309050DE010 E3CA301MW

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	28.4	28.4	28.4	28.4	28.4
2.5°	28.4	22.4	18.6	16.4	15.8
5°	26.8	16.9	12.0	10.4	9.8
7.5°	24.0	12.6	8.2	6.6	6.0
10°	20.8	9.3	5.5	3.8	3.8
12.5°	17.5	7.1	3.3	1.6	1.1
15°	14.2	4.4	1.1	0.5	0.5
17.5°	10.9	2.7	0.0	0.0	0.0
20°	8.7	1.1	0.0	0.0	0.0
22.5°	6.6	0.5	0.0	0.0	0.0
25°	4.4	0.0	0.0	0.0	0.0
27.5°	2.7	0.0	0.0	0.0	0.0
30°	1.6	0.0	0.0	0.0	0.0
32.5°	0.5	0.0	0.0	0.0	0.0
35°	0.5	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°	0.5	0.0	0.0	0.5	0.5
47.5°	0.5	0.5	0.5	1.1	1.1
50°	0.5	0.5	0.5	1.1	1.6
52.5°	1.1	0.5	1.1	1.6	1.6
55°	1.1	1.1	1.6	2.2	2.2
57.5°	1.1	1.1	1.6	2.2	2.2
60°	1.1	1.1	1.6	2.2	2.7
62.5°	1.6	1.6	1.6	2.2	2.2
65°	1.6	1.6	1.6	2.2	2.7
67.5°	1.6	1.6	1.6	2.2	2.7
70°	1.6	1.6	1.6	2.2	2.2
72.5°	2.2	1.6	1.6	2.2	2.2
75°	1.6	1.6	1.6	1.6	1.6
77.5°	1.6	1.6	1.1	1.6	1.6
80°	1.6	1.1	1.1	1.1	1.1
82.5°	1.6	1.1	1.1	1.1	1.1
85°	1.6	1.1	0.5	0.5	0.5
87.5°	1.6	1.1	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)