

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: P1339490

Luminaire Tested: P3A05R459740DE010 E3CA451MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339490
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R459740DE010 E3CA451MW
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 97CRI , E3CA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

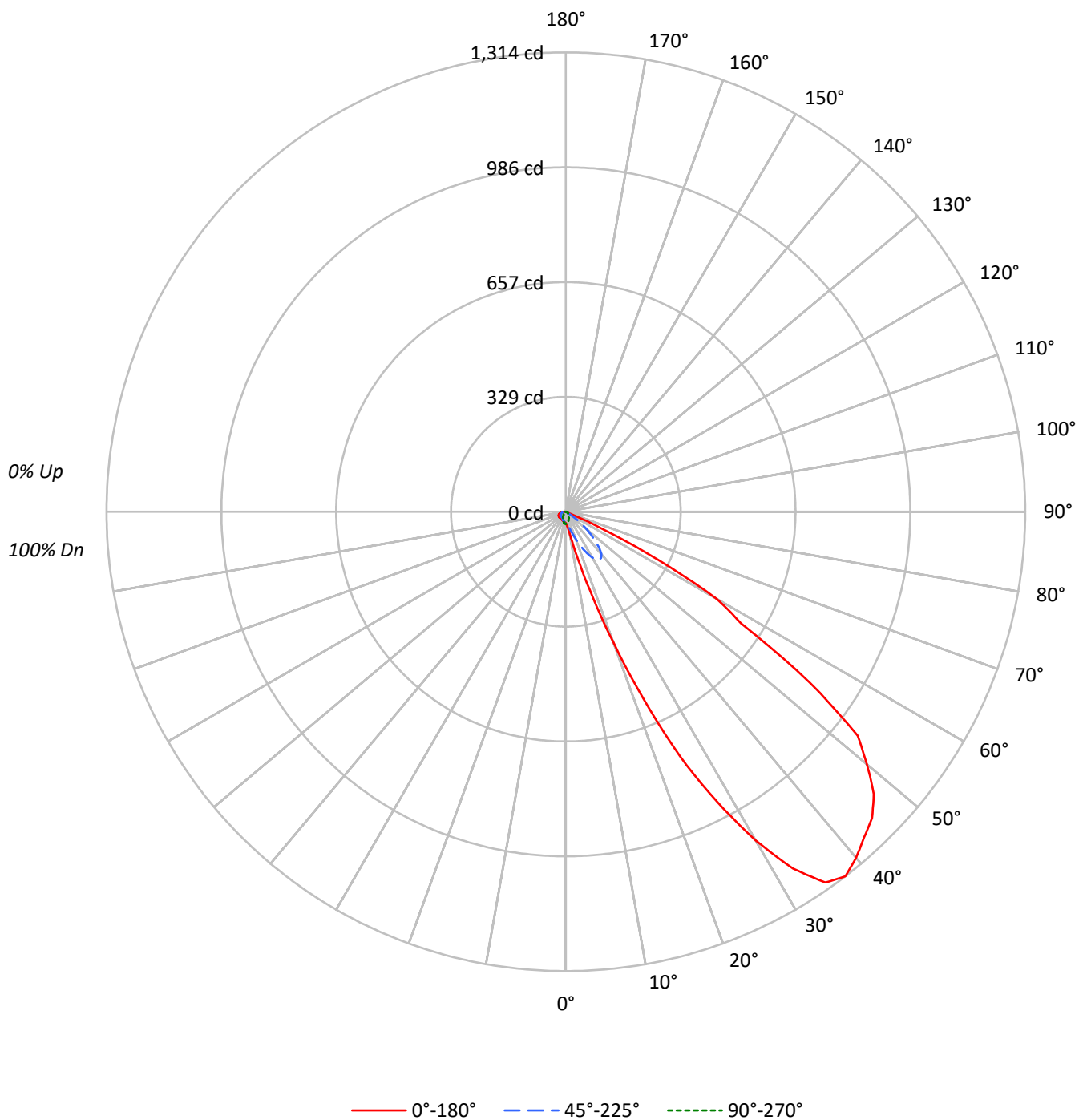
Lumens per Lamp: N/A
Luminaire Lumens: 587.0 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1339490

CATALOG NUMBER: P3A05R459740DE010 E3CA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1339490

CATALOG NUMBER: P3A05R459740DE010 E3CA451MW

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	110	106	102	99		107	104	100	97		99	97	94		96	93	91		92	90	88
2	100	93	86	81		98	91	85	80		87	83	78		84	80	77		81	78	75
3	91	81	73	67		89	80	72	66		77	70	65		74	69	64		71	67	63
4	83	71	62	56		81	70	62	55		67	60	55		65	59	54		63	58	53
5	76	63	53	47		73	61	53	46		59	52	46		57	51	45		55	50	45
6	69	55	46	39		67	54	46	39		52	45	39		51	44	39		49	43	38
7	63	49	40	34		61	48	40	33		47	39	33		45	38	33		44	37	33
8	58	44	35	29		56	43	35	29		42	34	29		40	33	28		39	33	28
9	53	39	31	25		52	39	30	25		38	30	25		36	29	25		35	29	24
10	49	36	27	22		48	35	27	22		34	27	21		33	26	21		32	26	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7456	7456	7456	7456	7456
5°	8871	8210	7374	6824	6824
10°	14139	9619	6903	6480	6480
15°	35233	12872	6266	6061	6266
20°	92805	19252	5437	5764	6114
25°	186349	28526	4694	5395	5976
30°	274726	38183	3798	5292	6153
35°	346528	44785	3239	5193	6371
40°	369721	45256	2920	5410	6813
45°	384164	37740	2698	5861	7381
50°	383544	26302	2661	6277	8290
55°	325991	11699	2791	7034	9099
60°	219105	2324	2763	7850	10438
65°	58113	986	2750	8561	11830
70°	1539	1218	2821	9361	13400
75°	1271	1271	2881	9828	15166
80°	1263	1894	3031	10355	17174
85°	1258	2516	4780	11070	17109

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 394036 cd/sqm

TEST NUMBER: P1339490

CATALOG NUMBER: P3A05R459740DE010 E3CA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.4	0.6
10°-20°	16.6	2.8
20°-30°	68.3	11.6
30°-40°	143.9	24.5
40°-50°	177.6	30.2
50°-60°	133.1	22.7
60°-70°	34.2	5.8
70°-80°	7.1	1.2
80°-90°	2.9	0.5
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°	88.2	15.0
0°-40°	232.1	39.5
0°-60°	542.8	92.5
0°-90°	587.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	587.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	34	34	34	34	34	
5°	40	37	34	31	31	5
15°	155	57	28	27	28	57
25°	770	118	19	22	25	359
35°	1294	167	12	19	24	789
45°	1239	122	9	19	24	948
55°	853	31	7	18	24	736
65°	112	2	5	16	23	162
75°	2	2	3	12	18	2
85°	0	1	2	4	7	1
90°	0	0	0	0	0	

TEST NUMBER: P1339490

CATALOG NUMBER: P3A05R459740DE010 E3CA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0
2.5°	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.4	34.9	34.0	33.0
5°	40.3	39.8	39.8	39.8	39.3	38.8	38.8	37.3	35.4	33.5	32.0
7.5°	47.5	47.5	47.0	46.1	45.6	44.6	43.7	39.8	35.4	32.5	30.6
10°	63.5	62.6	61.1	60.1	57.7	54.3	51.9	43.2	34.9	31.0	29.6
12.5°	95.1	97.0	92.2	87.3	80.5	74.2	66.4	49.0	34.9	29.6	28.1
15°	155.2	158.6	149.4	139.7	123.2	107.7	93.1	56.7	34.0	27.6	26.2
17.5°	253.7	258.0	242.5	219.7	194.0	163.0	136.3	67.4	33.0	25.7	24.7
20°	397.7	397.2	367.2	338.5	289.1	243.5	193.5	82.5	31.5	23.3	23.3
22.5°	574.8	576.7	539.8	488.4	418.1	344.9	265.3	99.9	29.6	21.3	21.8
25°	770.2	753.7	710.1	647.5	557.8	456.4	351.6	117.9	27.6	19.4	20.4
27.5°	933.2	917.2	867.2	793.0	696.5	576.2	439.4	135.8	25.2	17.5	18.9
30°	1085.0	1064.6	1004.5	920.6	805.6	675.6	521.9	150.8	22.3	15.0	17.5
32.5°	1210.1	1191.7	1123.3	1025.8	900.7	761.0	591.7	162.5	19.4	13.6	16.5
35°	1294.5	1275.6	1212.6	1105.4	969.1	823.1	648.5	167.3	17.0	12.1	16.0
37.5°	1313.9	1303.7	1258.6	1158.2	1016.1	862.9	684.9	165.9	14.1	11.2	15.0
40°	1291.6	1294.0	1272.7	1189.3	1041.3	879.8	699.9	158.1	11.6	10.2	14.6
42.5°	1263.0	1269.3	1267.9	1201.9	1052.0	880.8	693.6	142.6	9.2	9.2	14.1
45°	1238.8	1245.1	1253.8	1196.6	1044.7	868.2	673.7	121.7	6.8	8.7	14.1
47.5°	1194.6	1201.4	1214.0	1153.9	1007.9	835.7	637.8	98.9	4.9	8.2	13.6
50°	1124.3	1127.7	1124.3	1056.9	937.1	783.3	579.6	77.1	3.4	7.8	13.6
52.5°	1052.0	1045.2	1017.1	931.7	824.5	700.4	506.4	54.8	2.4	7.3	13.1
55°	852.7	842.0	821.1	768.8	707.6	598.5	409.4	30.6	2.4	7.3	12.6
57.5°	594.2	600.0	607.2	596.6	568.4	471.4	310.9	13.6	2.4	6.8	12.6
60°	499.6	494.7	495.2	488.4	441.9	343.9	213.9	5.3	2.4	6.3	12.1
62.5°	298.3	301.7	308.0	309.4	263.4	192.1	112.0	2.4	2.4	5.8	11.6
65°	112.0	117.4	102.8	89.2	70.8	51.9	26.2	1.9	2.9	5.3	10.7
67.5°	3.4	3.9	4.9	4.4	4.4	3.9	2.9	1.9	2.9	4.9	10.2
70°	2.4	2.4	2.4	2.4	2.4	1.9	1.9	1.9	2.4	4.4	9.2
72.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.4	3.9	8.2
75°	1.5	1.9	1.5	1.5	1.5	1.5	1.5	1.5	2.4	3.4	6.8
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.9	2.9	5.8
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.9	2.4	4.9
82.5°	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.9	1.9	3.9
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.5	1.9	2.4
87.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	1.0	1.5	1.5	1.5
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: P1339490

CATALOG NUMBER: P3A05R459740DE010 E3CA451MW

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	34.0	34.0	34.0
2.5°	32.0	32.0	32.0
5°	31.0	31.0	31.0
7.5°	30.1	30.1	30.1
10°	29.1	29.1	29.1
12.5°	28.1	28.1	28.6
15°	26.7	27.6	27.6
17.5°	25.7	26.7	27.2
20°	24.7	25.7	26.2
22.5°	23.3	24.7	25.7
25°	22.3	24.3	24.7
27.5°	21.3	23.8	24.7
30°	20.9	23.3	24.3
32.5°	19.9	22.8	23.8
35°	19.4	22.8	23.8
37.5°	19.4	22.3	23.8
40°	18.9	22.3	23.8
42.5°	18.9	22.3	23.8
45°	18.9	22.3	23.8
47.5°	18.4	22.3	24.3
50°	18.4	22.8	24.3
52.5°	18.4	22.8	24.3
55°	18.4	22.8	23.8
57.5°	17.9	22.3	23.8
60°	17.9	22.3	23.8
62.5°	17.0	21.8	23.3
65°	16.5	21.3	22.8
67.5°	15.5	20.9	21.8
70°	14.6	19.4	20.9
72.5°	13.1	18.4	19.9
75°	11.6	17.0	17.9
77.5°	10.2	15.0	16.0
80°	8.2	12.6	13.6
82.5°	6.3	9.7	10.2
85°	4.4	6.3	6.8
87.5°	1.9	2.9	3.4
90°	0.0	0.0	0.0

(END OF REPORT)