

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: P1307723

Luminaire Tested: P3SQAS05R459030DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307723
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R459030DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

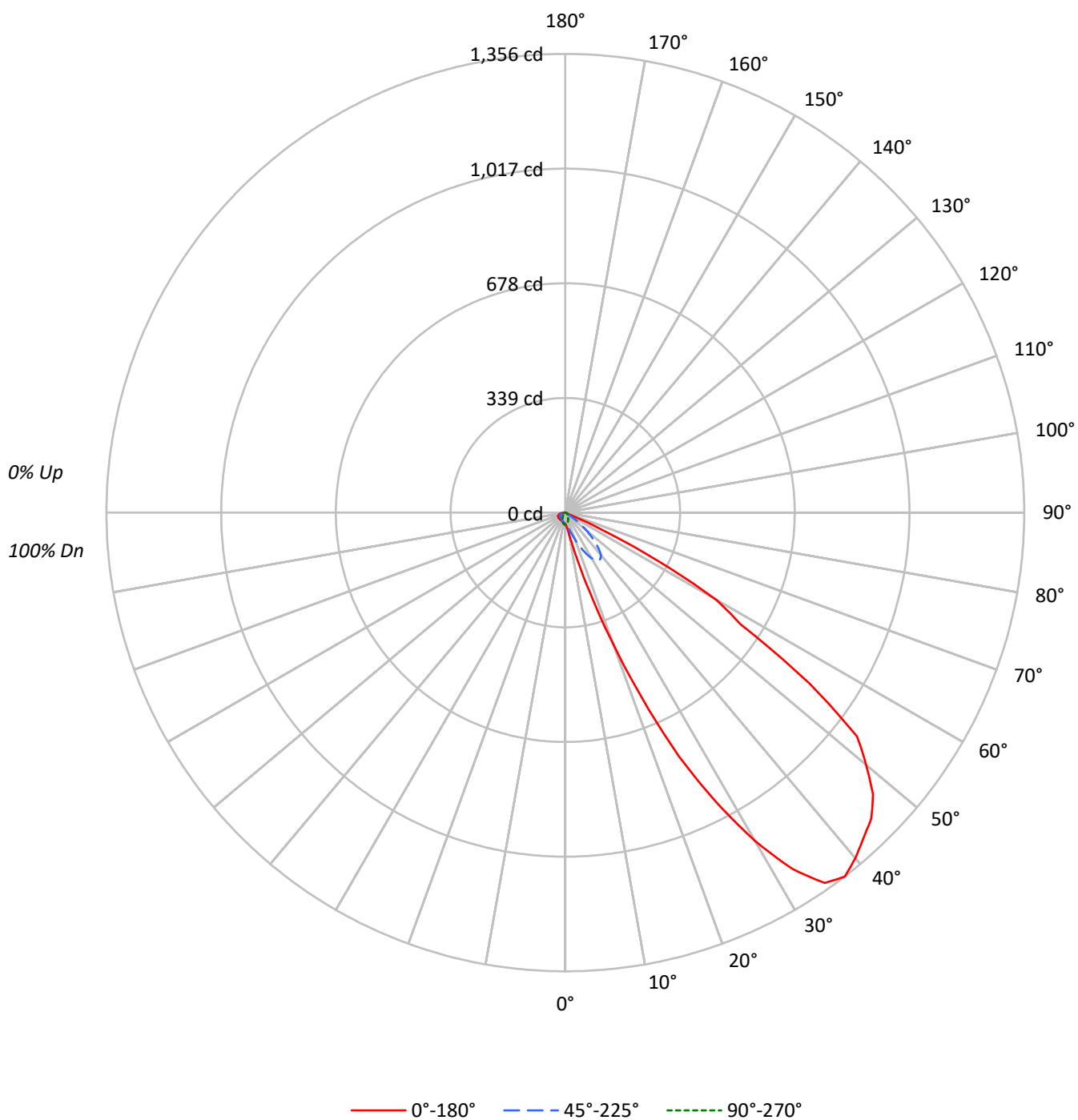
Lumens per Lamp: N/A
Luminaire Lumens: 605.9 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

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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
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°	6045	6045	6045	6045	6045
5°	7192	6673	5964	5532	5532
10°	11472	7800	5596	5246	5246
15°	28563	10448	5081	4903	5081
20°	75253	15597	4399	4674	4948
25°	151090	23126	3801	4371	4846
30°	222749	30963	3082	4276	4972
35°	280971	36309	2628	4205	5151
40°	299776	36691	2361	4384	5508
45°	311464	30615	2192	4749	5967
50°	310987	21327	2143	5091	6698
55°	264320	9458	2252	5705	7356
60°	177630	1894	2239	6372	8439
65°	47149	815	2241	6928	9577
70°	1259	1007	2266	7553	10826
75°	998	998	2329	7985	12310
80°	992	1488	2479	8430	13885
85°	988	1976	3952	8892	13832

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 319493 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.5	0.6
10°-20°	17.1	2.8
20°-30°	70.5	11.6
30°-40°	148.6	24.5
40°-50°	183.3	30.3
50°-60°	137.4	22.7
60°-70°	35.3	5.8
70°-80°	7.3	1.2
80°-90°	3.0	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°	91.1	15.0
0°-40°	239.6	39.5
0°-60°	560.3	92.5
0°-90°	605.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	605.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	35	35	35	35	35	
5°	42	39	34	32	32	5
15°	160	59	28	28	28	59
25°	795	122	20	23	26	370
35°	1336	173	12	20	24	814
45°	1279	126	9	20	24	979
55°	880	32	8	19	24	760
65°	116	2	6	17	24	167
75°	2	2	4	12	18	2
85°	0	1	2	4	7	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1
2.5°	37.1	37.1	37.1	37.1	37.1	37.1	37.1	36.6	36.1	35.1	34.0
5°	41.6	41.1	41.1	41.1	40.6	40.1	40.1	38.6	36.6	34.5	33.0
7.5°	49.1	49.1	48.6	47.6	47.1	46.1	45.1	41.1	36.6	33.5	31.5
10°	65.6	64.6	63.1	62.1	59.6	56.1	53.6	44.6	36.1	32.0	30.5
12.5°	98.1	100.1	95.1	90.1	83.1	76.6	68.6	50.6	36.1	30.5	29.0
15°	160.2	163.7	154.2	144.2	127.2	111.2	96.1	58.6	35.1	28.5	27.0
17.5°	261.9	266.4	250.4	226.8	200.3	168.2	140.7	69.6	34.0	26.5	25.5
20°	410.6	410.1	379.0	349.5	298.4	251.4	199.8	85.1	32.5	24.0	24.0
22.5°	593.4	595.4	557.3	504.2	431.6	356.0	273.9	103.1	30.5	22.0	22.5
25°	795.1	778.1	733.1	668.5	575.8	471.2	363.0	121.7	28.5	20.0	21.0
27.5°	963.4	946.9	895.3	818.7	719.0	594.9	453.7	140.2	26.0	18.0	19.5
30°	1120.1	1099.1	1037.0	950.4	831.7	697.5	538.8	155.7	23.0	15.5	18.0
32.5°	1249.3	1230.3	1159.7	1059.0	929.8	785.6	610.9	167.7	20.0	14.0	17.0
35°	1336.4	1316.9	1251.8	1141.1	1000.4	849.7	669.5	172.7	17.5	12.5	16.5
37.5°	1356.5	1345.9	1299.4	1195.7	1049.0	890.8	707.0	171.2	14.5	11.5	15.5
40°	1333.4	1335.9	1313.9	1227.8	1075.1	908.3	722.5	163.2	12.0	10.5	15.0
42.5°	1303.9	1310.4	1308.9	1240.8	1086.1	909.3	716.0	147.2	9.5	9.5	14.5
45°	1278.8	1285.4	1294.4	1235.3	1078.6	896.3	695.5	125.7	7.0	9.0	14.5
47.5°	1233.3	1240.3	1253.3	1191.2	1040.5	862.7	658.5	102.1	5.0	8.5	14.0
50°	1160.7	1164.2	1160.7	1091.1	967.4	808.7	598.4	79.6	3.5	8.0	14.0
52.5°	1086.1	1079.1	1050.0	961.9	851.2	723.0	522.8	56.6	2.5	7.5	13.5
55°	880.3	869.3	847.7	793.6	730.6	617.9	422.6	31.5	2.5	7.5	13.0
57.5°	613.4	619.4	626.9	615.9	586.8	486.7	321.0	14.0	2.5	7.0	13.0
60°	515.7	510.7	511.2	504.2	456.2	355.0	220.8	5.5	2.5	6.5	12.5
62.5°	307.9	311.4	318.0	319.5	271.9	198.3	115.7	2.5	2.5	6.0	12.0
65°	115.7	121.2	106.2	92.1	73.1	53.6	27.0	2.0	3.0	5.5	11.0
67.5°	3.5	4.0	5.0	4.5	4.5	4.0	3.0	2.0	3.0	5.0	10.5
70°	2.5	2.5	2.5	2.5	2.5	2.0	2.0	2.0	2.5	4.5	9.5
72.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.5	4.0	8.5
75°	1.5	2.0	1.5	1.5	1.5	1.5	1.5	1.5	2.5	3.5	7.0
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	3.0	6.0
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	2.0	2.5	5.0
82.5°	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	2.0	2.0	4.0
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.5	2.0	2.5
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

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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	35.1	35.1	35.1
2.5°	33.0	33.0	33.0
5°	32.0	32.0	32.0
7.5°	31.0	31.0	31.0
10°	30.0	30.0	30.0
12.5°	29.0	29.0	29.5
15°	27.5	28.5	28.5
17.5°	26.5	27.5	28.0
20°	25.5	26.5	27.0
22.5°	24.0	25.5	26.5
25°	23.0	25.0	25.5
27.5°	22.0	24.5	25.5
30°	21.5	24.0	25.0
32.5°	20.5	23.5	24.5
35°	20.0	23.5	24.5
37.5°	20.0	23.0	24.5
40°	19.5	23.0	24.5
42.5°	19.5	23.0	24.5
45°	19.5	23.0	24.5
47.5°	19.0	23.0	25.0
50°	19.0	23.5	25.0
52.5°	19.0	23.5	25.0
55°	19.0	23.5	24.5
57.5°	18.5	23.0	24.5
60°	18.5	23.0	24.5
62.5°	17.5	22.5	24.0
65°	17.0	22.0	23.5
67.5°	16.0	21.5	22.5
70°	15.0	20.0	21.5
72.5°	13.5	19.0	20.5
75°	12.0	17.5	18.5
77.5°	10.5	15.5	16.5
80°	8.5	13.0	14.0
82.5°	6.5	10.0	10.5
85°	4.5	6.5	7.0
87.5°	2.0	3.0	3.5
90°	0.0	0.0	0.0

(END OF REPORT)