

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: P1313462

Luminaire Tested: P3SQAS13R509730DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313462
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R509730DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 97CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

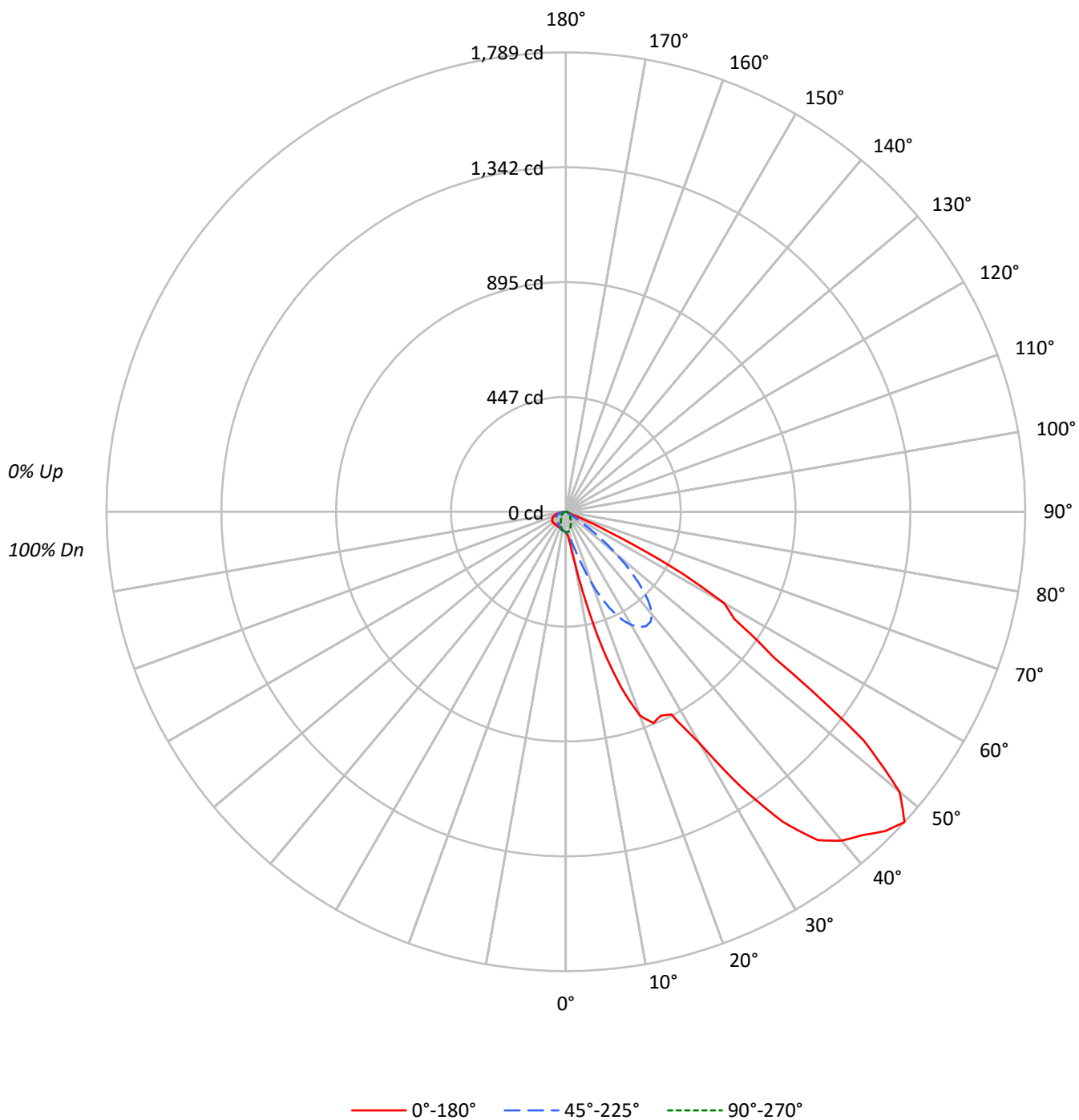
Lumens per Lamp: N/A
Luminaire Lumens: 1009.0 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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			0
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61		
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51		
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43		
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37		
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31		
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27		
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	23		
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	13812	13812	13812	13812	13812
5°	16424	15369	13709	13104	12966
10°	35361	19044	13116	12644	12801
15°	97903	31238	11803	12124	12588
20°	154776	54781	10227	11656	12298
25°	166444	80495	8779	11269	12428
30°	206582	101044	7617	11097	12827
35°	310027	114331	6602	11185	13561
40°	375990	117559	5868	11556	14299
45°	428348	100834	5724	12300	15710
50°	454625	69582	5841	13316	17523
55°	297018	28014	5765	14383	19367
60°	244969	4788	5718	15603	21321
65°	73882	2486	5338	16708	23432
70°	3072	2618	5287	17121	25429
75°	2928	2928	5190	17367	27814
80°	2579	2579	5157	17257	28564
85°	1778	3359	6916	17191	27467

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 456106 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.4	0.8
10°-20°	47.8	4.7
20°-30°	122.8	12.2
30°-40°	220.6	21.9
40°-50°	294.7	29.2
50°-60°	224.5	22.2
60°-70°	68.1	6.8
70°-80°	16.3	1.6
80°-90°	5.9	0.6
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°	179.0	17.7
0°-40°	399.6	39.6
0°-60°	918.7	91.1
0°-90°	1009.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1009.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	80	80	80	80	80	
5°	95	89	79	76	75	12
15°	549	175	66	68	71	162
25°	876	424	46	59	65	418
35°	1475	544	31	53	64	905
45°	1759	414	24	50	64	1345
55°	989	93	19	48	64	984
65°	181	6	13	41	58	251
75°	4	4	8	26	42	5
85°	1	2	4	9	14	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
2.5°	85.4	85.4	85.4	85.4	85.4	85.4	84.5	84.5	84.5	82.8	81.1
5°	95.0	95.9	95.0	95.0	93.3	93.3	91.5	91.5	88.9	83.7	79.3
7.5°	124.6	123.8	122.9	119.4	116.8	110.7	108.1	103.7	95.9	83.7	77.6
10°	202.2	197.0	193.5	185.6	169.1	158.6	144.7	130.7	108.9	83.7	75.0
12.5°	351.2	350.3	339.9	313.7	290.2	258.0	224.0	190.0	134.2	81.9	71.5
15°	549.1	541.2	526.4	495.9	454.1	403.5	342.5	282.4	175.2	79.3	66.2
17.5°	718.1	708.5	697.2	666.7	618.8	555.2	481.9	399.2	231.0	75.8	61.0
20°	844.5	838.4	828.8	804.4	759.1	701.6	619.6	519.4	298.9	71.5	55.8
22.5°	890.7	889.8	891.6	882.8	860.2	814.9	736.4	631.8	366.0	66.2	50.5
25°	875.9	875.0	886.3	897.7	902.9	884.6	824.5	722.5	423.6	61.9	46.2
27.5°	889.8	887.2	882.0	883.7	898.5	909.0	881.1	792.2	473.2	55.8	41.8
30°	1038.8	1024.0	1000.5	960.4	930.8	928.2	916.0	847.1	508.1	49.7	38.3
32.5°	1271.5	1253.2	1210.5	1136.5	1065.9	1011.8	973.5	893.3	532.5	43.6	34.0
35°	1474.6	1461.5	1411.9	1338.6	1237.5	1136.5	1066.7	961.3	543.8	38.3	31.4
37.5°	1612.3	1607.1	1558.3	1479.8	1377.0	1257.6	1165.2	1031.0	541.2	32.2	28.8
40°	1672.4	1656.7	1615.8	1549.5	1445.8	1338.6	1241.0	1075.4	522.9	26.1	26.1
42.5°	1708.2	1690.7	1646.3	1583.5	1481.6	1367.4	1249.7	1056.3	479.3	20.9	25.3
45°	1758.7	1740.4	1682.0	1614.9	1512.1	1379.6	1215.8	988.3	414.0	15.7	23.5
47.5°	1789.2	1777.0	1733.4	1666.3	1541.7	1362.2	1137.3	924.7	341.6	12.2	22.7
50°	1696.8	1684.6	1652.4	1606.2	1522.5	1303.8	1068.5	821.8	259.7	9.6	21.8
52.5°	1460.7	1471.1	1477.2	1490.3	1429.3	1173.1	965.6	739.9	175.2	7.8	20.0
55°	989.2	1004.9	1022.3	1074.6	1146.0	1044.1	857.6	639.7	93.3	7.8	19.2
57.5°	777.4	772.2	766.9	763.4	819.2	861.1	753.9	511.6	40.1	7.8	17.4
60°	711.2	695.5	685.0	687.6	715.5	699.0	597.0	333.8	13.9	7.8	16.6
62.5°	466.3	478.5	502.0	542.1	522.9	448.8	346.9	132.5	7.0	7.8	14.8
65°	181.3	175.2	181.3	192.6	166.5	123.8	77.6	23.5	6.1	7.0	13.1
67.5°	24.4	21.8	16.6	10.5	9.6	8.7	7.0	6.1	6.1	7.0	12.2
70°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	5.2	5.2	6.1	10.5
72.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	6.1	8.7
75°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	5.2	7.8
77.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.4	6.1
80°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.5	5.2
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.6	2.6	3.5	4.4
85°	0.9	1.7	0.9	1.7	1.7	1.7	1.7	1.7	1.7	2.6	3.5
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	2.6	2.6
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):

	112.5°	135°	157.5°	180°
0°	80.2	80.2	80.2	80.2
2.5°	79.3	77.6	77.6	77.6
5°	77.6	75.8	75.8	75.0
7.5°	75.0	74.1	74.1	74.1
10°	73.2	72.3	73.2	73.2
12.5°	69.7	70.6	71.5	71.5
15°	66.2	68.0	69.7	70.6
17.5°	62.7	66.2	68.0	68.8
20°	59.3	63.6	66.2	67.1
22.5°	56.6	61.0	64.5	66.2
25°	53.2	59.3	63.6	65.4
27.5°	49.7	56.6	61.9	64.5
30°	47.1	55.8	61.9	64.5
32.5°	44.4	54.0	61.0	63.6
35°	42.7	53.2	61.0	64.5
37.5°	41.0	52.3	61.0	63.6
40°	40.1	51.4	61.0	63.6
42.5°	39.2	51.4	61.0	64.5
45°	37.5	50.5	61.0	64.5
47.5°	36.6	50.5	61.0	64.5
50°	35.7	49.7	61.0	65.4
52.5°	34.9	48.8	61.0	65.4
55°	33.1	47.9	60.1	64.5
57.5°	32.2	47.1	59.3	62.7
60°	30.5	45.3	57.5	61.9
62.5°	28.8	43.6	55.8	59.3
65°	26.1	41.0	53.2	57.5
67.5°	23.5	37.5	50.5	54.9
70°	20.9	34.0	47.1	50.5
72.5°	18.3	30.5	43.6	46.2
75°	15.7	26.1	38.3	41.8
77.5°	13.1	22.7	32.2	34.9
80°	9.6	17.4	26.1	28.8
82.5°	7.8	13.1	19.2	20.9
85°	5.2	8.7	12.2	13.9
87.5°	2.6	4.4	6.1	7.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)