

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: P1313459

Luminaire Tested: P3SQAS13R509730DE010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R509730DE010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 97CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

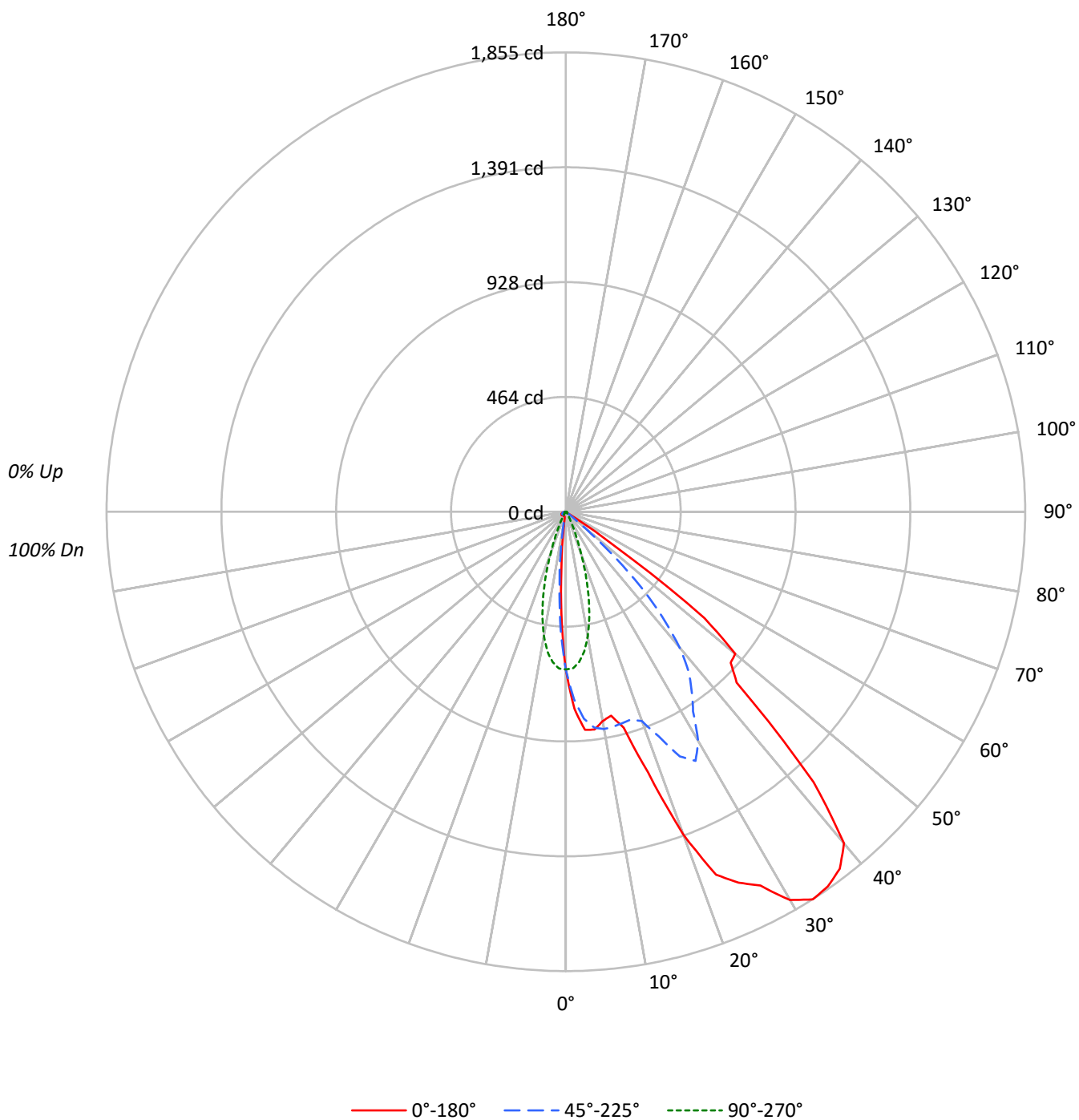
Lumens per Lamp: N/A
Luminaire Lumens: 990.0 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	112	109	106	103	110	107	104	101	102	100	98		99	97	95		95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87		91	88	85		88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77		83	79	76		81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68		76	71	68		74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61		70	65	61		68	64	60	58
6	79	68	61	56	78	68	61	55	66	60	55		64	59	55		63	58	54	53
7	74	63	55	50	73	62	55	50	61	54	50		59	54	49		58	53	49	47
8	69	58	51	45	68	57	50	45	56	50	45		55	49	45		54	49	45	43
9	65	53	46	41	64	53	46	41	52	46	41		51	45	41		50	45	41	39
10	61	50	43	38	60	49	42	38	48	42	38		47	42	37		46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	109620	109620	109620	109620	109620
5°	152844	145012	105371	50654	32865
10°	150029	155835	89049	10668	4582
15°	160896	157473	62957	3726	3584
20°	254075	164911	33246	3189	3354
25°	313962	207110	13264	2983	3306
30°	359967	212408	5369	2943	3460
35°	388070	186424	2376	3112	3847
40°	392829	160544	1754	3530	4317
45°	237422	104049	1705	3824	4896
50°	239209	17978	1876	4448	5600
55°	70681	1051	2102	4984	6275
60°	1206	1206	2101	5408	6923
65°	1060	1060	2119	5705	7457
70°	1309	1309	2216	6143	8359
75°	1131	1131	2329	6388	8717
80°	893	1686	2579	6050	9521
85°	1778	3359	3359	6916	8695

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 271179 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.5	5.2
10°-20°	127.8	12.9
20°-30°	239.4	24.2
30°-40°	286.2	28.9
40°-50°	205.1	20.7
50°-60°	63.2	6.4
60°-70°	8.3	0.8
70°-80°	6.0	0.6
80°-90°	2.4	0.2
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°	418.7	42.3
0°-40°	704.9	71.2
0°-60°	973.3	98.3
0°-90°	990.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	990.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	636	636	636	636	636	
5°	884	839	610	293	190	82
15°	902	883	353	21	20	289
25°	1652	1090	70	16	17	761
35°	1846	887	11	15	18	1145
45°	975	427	7	16	20	895
55°	235	4	7	17	21	303
65°	3	3	5	14	18	3
75°	2	2	4	10	13	2
85°	1	2	2	4	4	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5
2.5°	796.0	797.8	800.4	793.4	789.1	785.6	779.5	777.7	762.9	756.8	750.7
5°	884.1	882.4	884.1	881.5	879.7	874.5	869.3	860.6	851.0	838.8	824.8
7.5°	886.7	885.0	888.5	888.5	892.0	892.0	892.0	892.8	887.6	878.9	866.7
10°	857.9	857.9	861.4	859.7	865.8	868.4	874.5	885.0	890.2	891.1	887.6
12.5°	843.1	843.1	844.0	840.5	842.3	844.9	851.8	864.1	876.3	888.5	895.4
15°	902.4	904.2	892.0	874.5	861.4	847.5	843.1	851.0	864.1	883.2	898.9
17.5°	1103.8	1106.4	1093.4	1051.5	1011.4	953.9	902.4	877.1	863.2	878.9	899.8
20°	1386.3	1376.7	1354.1	1309.6	1251.2	1162.2	1082.0	1000.9	923.3	899.8	906.8
22.5°	1586.0	1582.5	1564.2	1514.5	1463.9	1381.1	1279.1	1165.7	1053.3	981.8	944.3
25°	1652.2	1649.6	1633.1	1603.4	1575.5	1512.7	1421.2	1307.0	1189.3	1089.9	995.7
27.5°	1701.9	1698.5	1672.3	1639.2	1610.4	1546.7	1463.0	1376.7	1268.6	1134.3	989.6
30°	1810.1	1800.5	1763.9	1704.6	1649.6	1561.6	1469.1	1361.9	1215.4	1068.1	926.8
32.5°	1855.4	1850.2	1818.8	1770.8	1710.7	1595.6	1455.2	1275.6	1082.9	955.6	852.7
35°	1845.8	1838.0	1805.7	1750.8	1677.5	1566.8	1379.3	1132.6	975.7	886.7	770.8
37.5°	1817.0	1805.7	1767.3	1702.8	1613.9	1469.1	1224.1	1016.6	915.5	815.2	659.2
40°	1747.3	1729.0	1684.5	1617.4	1528.4	1338.4	1082.9	946.9	852.7	714.1	534.5
42.5°	1480.5	1470.9	1492.7	1481.4	1402.9	1178.8	982.6	883.2	753.3	577.2	387.1
45°	974.8	991.3	1030.6	1097.7	1113.4	1014.0	900.7	778.6	619.9	427.2	223.2
47.5°	902.4	898.9	908.5	921.6	924.2	882.4	779.5	643.5	460.4	244.1	61.9
50°	892.8	887.6	879.7	864.1	830.9	749.8	633.0	469.1	265.9	67.1	4.4
52.5°	705.4	700.1	700.1	677.5	634.7	556.3	436.8	258.1	74.1	4.4	3.5
55°	235.4	251.1	248.5	247.6	266.8	245.9	188.3	66.3	6.1	3.5	3.5
57.5°	4.4	4.4	4.4	7.8	12.2	17.4	10.5	5.2	3.5	3.5	3.5
60°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
62.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
65°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.5
67.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
70°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
72.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.6	2.6	2.6
75°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.6
77.5°	0.9	0.9	0.9	0.9	1.7	1.7	1.7	1.7	1.7	1.7	1.7
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7	1.7	1.7
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7	1.7
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5
2.5°	736.8	724.5	701.0	633.9	559.8	475.2	417.6	410.7
5°	803.0	784.7	746.3	609.5	440.3	293.0	218.0	190.1
7.5°	846.6	822.2	775.1	569.3	320.9	154.3	82.8	66.3
10°	872.8	850.1	789.9	509.2	204.0	61.0	27.9	26.2
12.5°	886.7	864.9	795.2	436.8	115.1	27.9	21.8	21.8
15°	896.3	872.8	787.3	353.1	57.5	20.9	20.1	20.1
17.5°	900.7	871.9	764.7	265.9	30.5	19.2	19.2	19.2
20°	903.3	862.3	722.8	181.4	20.9	17.4	18.3	18.3
22.5°	905.9	838.8	667.9	115.1	16.6	16.6	17.4	17.4
25°	900.7	797.8	590.3	69.8	14.8	15.7	16.6	17.4
27.5°	863.2	735.9	496.1	42.7	13.1	14.8	16.6	17.4
30°	798.7	645.2	387.1	27.0	12.2	14.8	16.6	17.4
32.5°	715.0	541.4	276.4	16.6	12.2	14.8	16.6	17.4
35°	602.5	414.2	179.6	11.3	12.2	14.8	17.4	18.3
37.5°	476.1	289.5	96.8	8.7	12.2	14.8	17.4	18.3
40°	342.7	173.5	34.9	7.8	11.3	15.7	18.3	19.2
42.5°	200.5	64.5	6.1	7.0	11.3	15.7	18.3	19.2
45°	57.5	7.0	3.5	7.0	11.3	15.7	19.2	20.1
47.5°	4.4	2.6	3.5	7.0	11.3	15.7	19.2	20.9
50°	2.6	2.6	2.6	7.0	11.3	16.6	20.1	20.9
52.5°	3.5	3.5	3.5	7.0	11.3	16.6	20.1	20.9
55°	3.5	3.5	3.5	7.0	11.3	16.6	20.1	20.9
57.5°	3.5	3.5	3.5	7.0	11.3	15.7	20.1	20.9
60°	3.5	3.5	3.5	6.1	10.5	15.7	19.2	20.1
62.5°	3.5	3.5	3.5	6.1	10.5	14.8	19.2	19.2
65°	3.5	3.5	3.5	5.2	9.6	14.0	17.4	18.3
67.5°	3.5	3.5	3.5	5.2	8.7	13.1	16.6	17.4
70°	2.6	3.5	3.5	4.4	7.8	12.2	15.7	16.6
72.5°	2.6	2.6	3.5	4.4	7.0	10.5	14.0	14.8
75°	2.6	2.6	2.6	3.5	6.1	9.6	12.2	13.1
77.5°	2.6	2.6	2.6	3.5	5.2	7.8	11.3	11.3
80°	1.7	2.6	2.6	2.6	4.4	6.1	8.7	9.6
82.5°	1.7	1.7	1.7	2.6	3.5	5.2	7.0	7.0
85°	1.7	1.7	1.7	1.7	2.6	3.5	4.4	4.4
87.5°	0.9	1.7	1.7	1.7	1.7	1.7	1.7	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)