

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: P1311397

Luminaire Tested: P3SQAS13R659050DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311397
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R659050DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R65 optic, 5000K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

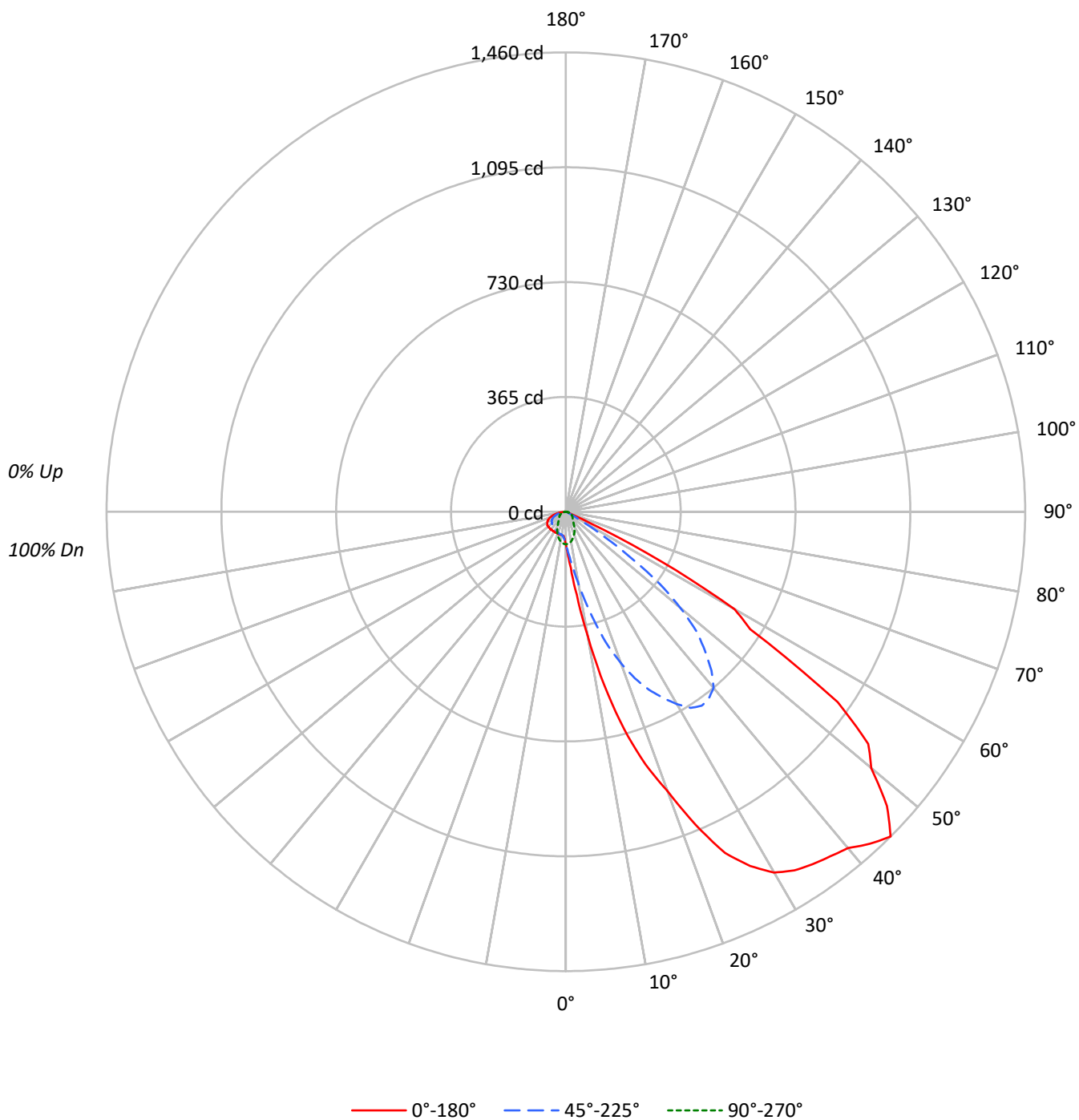
Lumens per Lamp: N/A
Luminaire Lumens: 1059.0 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1311397

CATALOG NUMBER: P3SQAS13R659050DE010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1311397

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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	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	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87		
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39		
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26		
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	17739	17739	17739	17739	17739
5°	31015	25327	17444	14142	13588
10°	70197	40852	16718	12994	13186
15°	127608	65703	15530	13069	13444
20°	173012	93800	14021	13031	13617
25°	227405	118444	12314	12713	13929
30°	263318	140419	10560	12668	14577
35°	287531	158272	8935	12951	15411
40°	313670	164232	7869	13602	16479
45°	355597	152322	7502	14492	17853
50°	339683	127160	7395	15352	19639
55°	316595	71402	7657	16574	21679
60°	213212	15362	7681	17567	23422
65°	32886	3912	7376	18175	25510
70°	3726	3726	6949	18732	27292
75°	3527	3527	6388	18366	27548
80°	3174	4166	6347	16860	27373
85°	2174	4150	6323	16796	25096

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 355597 cd/sqm

TEST NUMBER: P1311397

CATALOG NUMBER: P3SQAS13R659050DE010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.5	1.2
10°-20°	67.3	6.4
20°-30°	158.2	14.9
30°-40°	239.0	22.6
40°-50°	274.8	25.9
50°-60°	218.1	20.6
60°-70°	65.3	6.2
70°-80°	17.8	1.7
80°-90°	6.0	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°	238.0	22.5
0°-40°	477.1	45.0
0°-60°	969.9	91.6
0°-90°	1059.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1059.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	103	103	103	103	103	
5°	179	146	101	82	79	24
15°	716	368	87	73	75	206
25°	1197	623	65	67	73	546
35°	1368	753	42	62	73	858
45°	1460	625	31	60	73	1084
55°	1054	238	26	55	72	869
65°	81	10	18	45	63	181
75°	5	5	10	28	41	6
85°	1	2	3	8	13	2
90°	0	0	0	0	0	

TEST NUMBER: P1311397

CATALOG NUMBER: P3SQAS13R659050DE010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0
2.5°	130.6	131.7	130.6	130.6	129.5	128.5	121.0	112.6	103.0	95.6	90.3
5°	179.4	180.5	177.3	177.3	175.2	172.0	146.5	122.1	100.9	89.2	81.8
7.5°	265.5	269.7	264.4	258.0	246.3	244.2	182.6	131.7	98.7	82.8	76.5
10°	401.4	398.2	392.9	380.1	360.0	350.4	233.6	141.2	95.6	78.6	74.3
12.5°	566.0	557.5	551.1	527.7	500.1	484.2	297.3	149.7	91.3	74.3	73.3
15°	715.7	709.3	694.4	672.1	638.2	625.4	368.5	155.0	87.1	71.1	73.3
17.5°	842.0	835.7	827.2	804.9	769.8	750.7	448.1	158.2	81.8	69.0	72.2
20°	944.0	939.7	928.0	910.0	874.9	856.9	511.8	158.2	76.5	66.9	71.1
22.5°	1075.6	1066.1	1051.2	1024.7	981.1	953.5	572.3	155.0	71.1	64.8	69.0
25°	1196.7	1190.3	1171.2	1139.3	1092.6	1065.0	623.3	148.7	64.8	61.6	66.9
27.5°	1268.9	1264.6	1246.6	1213.7	1161.6	1140.4	665.8	139.1	58.4	58.4	65.8
30°	1324.1	1315.6	1297.5	1265.7	1212.6	1187.1	706.1	127.4	53.1	55.2	63.7
32.5°	1351.7	1348.5	1332.6	1305.0	1253.0	1224.3	739.0	112.6	46.7	53.1	62.6
35°	1367.6	1364.4	1351.7	1325.2	1276.3	1248.7	752.8	98.7	42.5	51.0	61.6
37.5°	1380.4	1377.2	1361.3	1334.7	1285.9	1257.2	746.5	83.9	38.2	48.8	60.5
40°	1395.2	1383.6	1359.1	1332.6	1288.0	1260.4	730.5	70.1	35.0	47.8	60.5
42.5°	1431.3	1391.0	1352.8	1328.3	1285.9	1254.0	684.9	55.2	31.9	45.7	59.5
45°	1460.0	1388.9	1340.0	1320.9	1277.4	1241.3	625.4	40.3	30.8	44.6	59.5
47.5°	1384.6	1341.1	1318.8	1308.2	1261.4	1222.2	563.8	27.6	29.7	43.5	58.4
50°	1267.8	1262.5	1254.0	1255.1	1212.6	1180.7	474.6	19.1	27.6	42.5	57.3
52.5°	1211.5	1205.2	1190.3	1179.7	1137.2	1109.6	375.9	14.9	26.5	41.4	56.3
55°	1054.4	1058.6	1042.7	1049.1	1036.3	1022.5	237.8	13.8	25.5	39.3	55.2
57.5°	694.4	715.7	752.8	797.4	837.8	865.4	128.5	13.8	23.4	38.2	53.1
60°	619.0	613.7	612.7	621.2	639.2	654.1	44.6	12.7	22.3	35.0	51.0
62.5°	338.7	336.6	368.5	422.6	454.5	457.6	12.7	12.7	20.2	32.9	47.8
65°	80.7	83.9	93.4	116.8	138.0	151.8	9.6	11.7	18.1	30.8	44.6
67.5°	12.7	13.8	13.8	17.0	19.1	19.1	8.5	10.6	15.9	27.6	41.4
70°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	9.6	13.8	24.4	37.2
72.5°	6.4	6.4	6.4	6.4	6.4	6.4	7.4	8.5	11.7	21.2	31.9
75°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	7.4	9.6	17.0	27.6
77.5°	4.2	4.2	4.2	4.2	4.2	4.2	5.3	6.4	8.5	13.8	22.3
80°	3.2	3.2	3.2	3.2	3.2	3.2	4.2	5.3	6.4	10.6	17.0
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	3.2	4.2	5.3	8.5	12.7
85°	1.1	1.1	1.1	1.1	2.1	2.1	2.1	3.2	3.2	5.3	8.5
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	2.1	2.1	2.1	3.2	4.2
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: P1311397

CATALOG NUMBER: P3SQAS13R659050DE010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	103.0	103.0
2.5°	87.1	86.0
5°	78.6	78.6
7.5°	75.4	75.4
10°	74.3	75.4
12.5°	74.3	75.4
15°	74.3	75.4
17.5°	74.3	75.4
20°	73.3	74.3
22.5°	72.2	73.3
25°	71.1	73.3
27.5°	70.1	73.3
30°	70.1	73.3
32.5°	70.1	73.3
35°	69.0	73.3
37.5°	69.0	73.3
40°	69.0	73.3
42.5°	69.0	73.3
45°	69.0	73.3
47.5°	69.0	73.3
50°	69.0	73.3
52.5°	68.0	73.3
55°	68.0	72.2
57.5°	65.8	70.1
60°	63.7	68.0
62.5°	61.6	65.8
65°	58.4	62.6
67.5°	55.2	58.4
70°	49.9	54.2
72.5°	44.6	47.8
75°	38.2	41.4
77.5°	31.9	35.0
80°	25.5	27.6
82.5°	18.1	20.2
85°	11.7	12.7
87.5°	5.3	5.3
90°	0.0	0.0

(END OF REPORT)