

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: P1314451

Luminaire Tested: P3SQAS13R609735DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314451
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R609735DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 3500K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

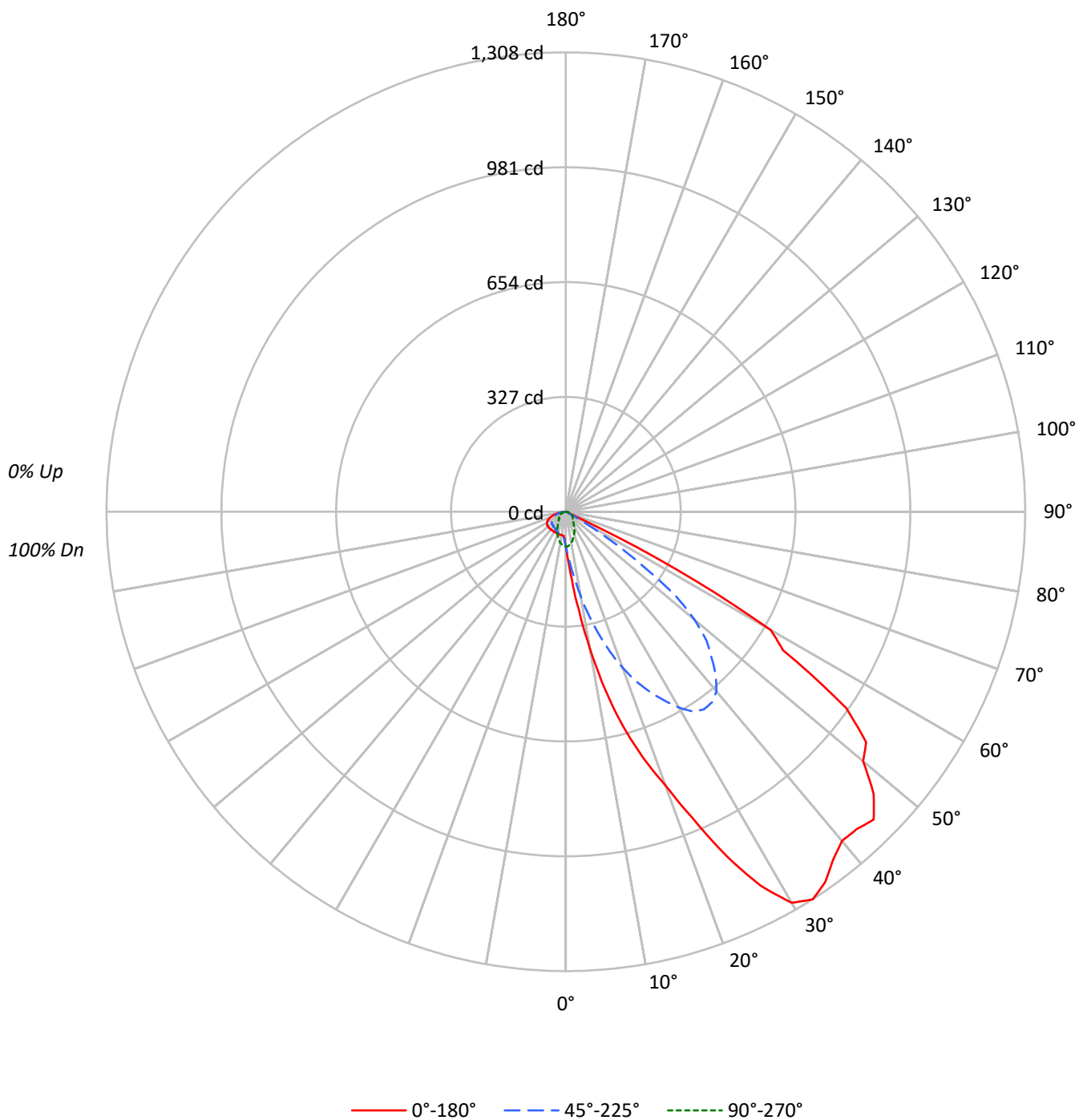
Lumens per Lamp: N/A
Luminaire Lumens: 996.0 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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	108	104	100	97	100	97	94	96	93	91	92	90	89
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	16998	16998	16998	16998	16998
5°	33504	26140	16752	12672	12050
10°	69182	42583	15669	11560	11717
15°	113166	63920	14050	11625	11946
20°	151825	86616	12609	11620	12115
25°	205419	107536	11003	11535	12561
30°	255662	128010	9188	11514	13145
35°	270669	144291	7800	11795	13708
40°	275001	150023	7127	12208	14861
45°	301892	142896	6844	13006	16099
50°	295956	128071	6805	13825	17710
55°	292514	78578	6786	14953	19577
60°	232018	18703	7164	15913	21218
65°	14752	3301	7009	16219	22862
70°	3172	3626	6848	16869	24170
75°	2994	3593	6055	16236	24687
80°	2678	3570	6248	16166	23307
85°	1778	3557	7114	14227	23317

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 318638 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.3	1.2
10°-20°	62.1	6.2
20°-30°	144.0	14.5
30°-40°	223.9	22.5
40°-50°	255.1	25.6
50°-60°	214.9	21.6
60°-70°	62.3	6.3
70°-80°	16.0	1.6
80°-90°	5.4	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°	218.4	21.9
0°-40°	442.3	44.4
0°-60°	912.3	91.6
0°-90°	996.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	996.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	99	99	99	99	99	
5°	194	151	97	73	70	25
15°	635	358	79	65	67	184
25°	1081	566	58	61	66	502
35°	1287	686	37	56	65	800
45°	1240	587	28	53	66	932
55°	974	262	23	50	65	820
65°	36	8	17	40	56	179
75°	4	5	9	24	37	5
85°	1	2	4	7	12	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°	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
2.5°	133.1	132.2	132.2	131.3	130.4	129.5	126.8	125.8	120.4	109.6	98.7
5°	193.8	192.8	190.1	189.2	184.7	178.4	172.0	165.7	151.2	120.4	96.9
7.5°	280.7	282.5	280.7	270.7	264.4	254.4	235.4	221.8	192.8	131.3	93.3
10°	395.6	395.6	392.9	377.5	364.0	344.9	320.5	297.0	243.5	141.2	89.6
12.5°	520.6	523.3	509.7	497.1	472.6	449.1	415.6	380.3	301.5	149.4	85.1
15°	634.7	632.9	619.3	603.0	577.6	545.0	509.7	464.5	358.5	154.8	78.8
17.5°	736.1	732.5	720.7	702.6	671.8	635.6	590.3	541.4	417.4	159.3	74.2
20°	828.4	815.7	802.2	783.2	753.3	715.2	668.2	612.9	472.6	159.3	68.8
22.5°	945.2	932.5	913.5	884.6	844.7	797.6	742.4	679.9	521.5	155.7	63.4
25°	1081.0	1071.1	1038.5	1001.3	949.7	893.6	829.3	745.1	565.9	150.3	57.9
27.5°	1199.6	1188.8	1156.2	1101.8	1039.4	972.4	904.5	818.5	604.8	140.3	51.6
30°	1285.6	1272.1	1246.7	1195.1	1119.0	1037.6	957.0	874.6	643.7	128.6	46.2
32.5°	1308.3	1306.5	1287.4	1249.4	1181.5	1091.9	995.9	906.3	674.5	113.2	41.6
35°	1287.4	1290.2	1286.5	1267.5	1217.7	1129.9	1021.3	923.5	686.3	97.8	37.1
37.5°	1249.4	1253.0	1259.4	1262.1	1230.4	1152.5	1035.8	930.7	683.6	82.4	34.4
40°	1223.2	1221.4	1221.4	1239.5	1233.1	1162.5	1037.6	925.3	667.3	66.1	31.7
42.5°	1225.9	1206.0	1192.4	1221.4	1230.4	1158.0	1025.8	910.8	632.0	50.7	29.0
45°	1239.5	1196.9	1173.4	1210.5	1225.0	1142.6	1004.1	889.1	586.7	35.3	28.1
47.5°	1188.8	1160.7	1157.1	1209.6	1215.0	1116.3	970.6	854.7	543.2	24.4	26.3
50°	1104.6	1100.0	1119.0	1173.4	1174.3	1072.9	932.5	792.2	478.0	17.2	25.4
52.5°	1078.3	1081.0	1098.2	1126.3	1100.0	999.5	863.7	739.7	395.6	13.6	24.4
55°	974.2	978.7	995.0	1012.2	993.2	909.9	780.4	676.3	261.7	12.7	22.6
57.5°	733.4	745.1	775.0	790.4	792.2	741.5	707.1	583.1	147.6	12.7	21.7
60°	673.6	658.2	644.6	612.9	584.0	577.6	581.3	437.3	54.3	11.8	20.8
62.5°	352.2	344.9	365.8	379.4	383.0	402.9	376.6	230.9	11.8	11.8	19.0
65°	36.2	36.2	44.4	58.8	97.8	130.4	124.0	67.0	8.1	10.9	17.2
67.5°	10.9	10.9	10.9	12.7	16.3	16.3	13.6	10.0	8.1	10.0	15.4
70°	6.3	6.3	6.3	6.3	6.3	6.3	7.2	6.3	7.2	9.1	13.6
72.5°	5.4	5.4	5.4	5.4	6.3	6.3	6.3	6.3	6.3	8.1	11.8
75°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.4	5.4	6.3	9.1
77.5°	3.6	3.6	3.6	3.6	3.6	3.6	4.5	4.5	4.5	5.4	7.2
80°	2.7	2.7	2.7	2.7	2.7	3.6	3.6	3.6	3.6	4.5	6.3
82.5°	1.8	1.8	1.8	1.8	2.7	2.7	2.7	2.7	2.7	3.6	4.5
85°	0.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.7	3.6
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	2.7
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°	98.7	98.7	98.7	98.7
2.5°	89.6	83.3	79.7	77.9
5°	81.5	73.3	70.6	69.7
7.5°	74.2	68.8	67.9	67.9
10°	69.7	66.1	67.0	67.0
12.5°	67.0	66.1	67.0	67.9
15°	64.3	65.2	67.0	67.0
17.5°	62.5	64.3	66.1	67.0
20°	59.8	63.4	66.1	66.1
22.5°	57.9	62.5	65.2	66.1
25°	56.1	60.7	64.3	66.1
27.5°	53.4	59.8	64.3	65.2
30°	50.7	57.9	63.4	66.1
32.5°	48.0	57.0	63.4	65.2
35°	46.2	56.1	63.4	65.2
37.5°	44.4	55.2	63.4	66.1
40°	43.5	54.3	62.5	66.1
42.5°	41.6	54.3	62.5	66.1
45°	40.7	53.4	62.5	66.1
47.5°	39.8	52.5	62.5	66.1
50°	38.0	51.6	61.6	66.1
52.5°	37.1	50.7	61.6	66.1
55°	35.3	49.8	60.7	65.2
57.5°	34.4	48.0	59.8	63.4
60°	32.6	46.2	57.9	61.6
62.5°	29.9	43.5	55.2	59.8
65°	27.2	39.8	52.5	56.1
67.5°	24.4	37.1	48.9	52.5
70°	21.7	33.5	44.4	48.0
72.5°	19.0	29.0	39.8	42.6
75°	16.3	24.4	33.5	37.1
77.5°	12.7	19.9	28.1	30.8
80°	10.0	16.3	21.7	23.5
82.5°	8.1	11.8	16.3	17.2
85°	5.4	7.2	10.0	11.8
87.5°	2.7	3.6	4.5	5.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)