

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: P1314610

Luminaire Tested: P3SQAS17R709735DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314610
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R709735DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

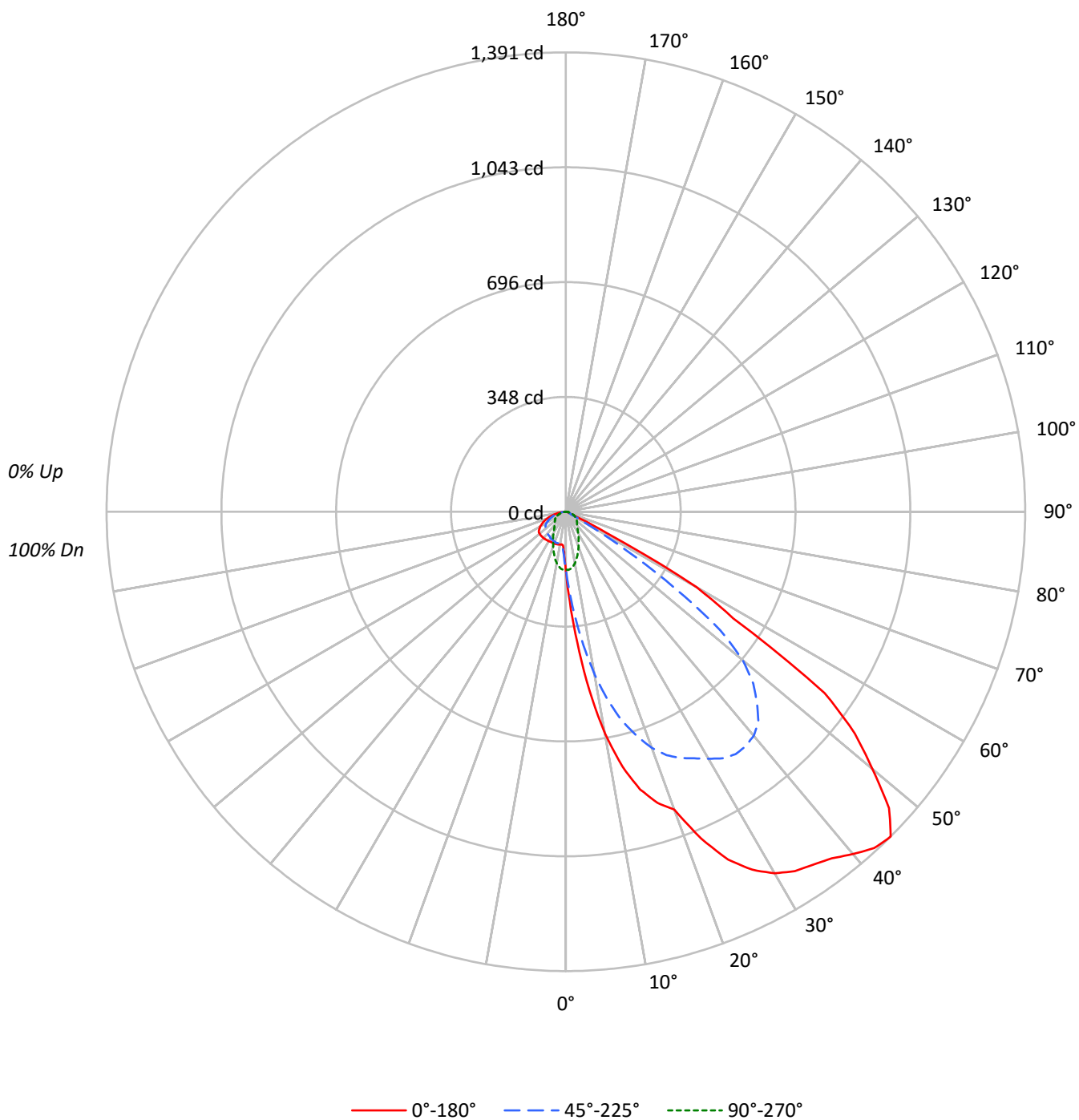
Lumens per Lamp: N/A
Luminaire Lumens: 1202.0 lumens
Efficiency: N/A
Efficacy: 56.7 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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

TEST NUMBER: P1314610

CATALOG NUMBER: P3SQAS17R709735DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1314610

CATALOG NUMBER: P3SQAS17R709735DE010 E3SQCA451MMS

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	102	102	100
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87	87	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75	75	75
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64	64	64
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	54	54	54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47	47	47
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41	41	41
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35	35	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31	31	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28	28	28
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25	25	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	30156	30156	30156	30156	30156
5°	68616	54941	29856	18861	17617
10°	118918	87247	27683	17191	17610
15°	155226	116536	24159	17527	18169
20°	175835	139344	20655	17796	18896
25°	220830	156335	17311	17996	19364
30°	251366	171720	14796	18355	20503
35°	274328	188337	12867	18649	21676
40°	304115	198966	11871	19402	23449
45°	338816	199207	11691	20435	25403
50°	324518	187337	11575	21515	27624
55°	287350	121335	11890	22700	29876
60°	157377	26040	11987	23147	30966
65°	11247	6357	11736	22984	31297
70°	5438	6043	10877	21753	30213
75°	4791	6388	10381	20761	27948
80°	4761	5951	9521	19042	26183
85°	4742	7114	9485	16599	23712

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 338816 cd/sqm

TEST NUMBER: P1314610

CATALOG NUMBER: P3SQAS17R709735DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.8	1.9
10°-20°	97.7	8.1
20°-30°	187.4	15.6
30°-40°	265.0	22.0
40°-50°	299.8	24.9
50°-60°	237.4	19.8
60°-70°	64.0	5.3
70°-80°	21.3	1.8
80°-90°	6.5	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°	307.9	25.6
0°-40°	573.0	47.7
0°-60°	1110.2	92.4
0°-90°	1202.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1202.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	175	175	175	175	175	
5°	397	318	173	109	102	47
15°	871	654	136	98	102	245
25°	1162	823	91	95	102	533
35°	1305	896	61	89	103	822
45°	1391	818	48	84	104	1041
55°	957	404	40	76	100	777
65°	28	16	29	56	77	99
75°	7	10	16	31	42	8
85°	2	4	5	8	12	3
90°	0	0	0	0	0	

TEST NUMBER: P1314610

CATALOG NUMBER: P3SQAS17R709735DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	175.1	175.1	175.1	175.1	175.1	175.1	175.1	175.1	175.1	175.1	175.1
2.5°	272.2	272.2	271.0	266.2	263.8	257.8	253.0	239.8	207.5	176.3	151.1
5°	396.9	402.9	394.5	393.3	386.2	375.4	368.2	317.8	239.8	172.7	129.5
7.5°	544.5	546.9	544.5	532.5	521.7	503.7	486.9	407.7	272.2	166.7	113.9
10°	680.0	676.4	669.2	660.8	645.2	626.0	597.2	498.9	303.4	158.3	104.3
12.5°	790.3	789.1	780.7	772.3	753.1	727.9	699.2	581.6	329.8	147.5	99.5
15°	870.6	870.6	862.3	852.7	834.7	814.3	781.9	653.6	351.4	135.5	94.7
17.5°	924.6	922.2	916.2	909.0	894.6	874.2	849.1	711.1	365.8	123.5	93.5
20°	959.4	958.2	953.4	942.6	930.6	915.0	892.2	760.3	371.8	112.7	92.3
22.5°	1070.9	1061.3	1043.3	1020.6	991.8	954.6	923.4	797.5	369.4	100.7	89.9
25°	1162.1	1158.5	1139.3	1111.7	1073.3	1025.3	973.8	822.7	357.4	91.1	87.5
27.5°	1222.0	1216.0	1198.0	1168.1	1127.3	1080.5	1032.5	841.9	340.6	82.7	83.9
30°	1264.0	1260.4	1242.4	1208.8	1166.9	1115.3	1066.1	863.5	317.8	74.4	80.3
32.5°	1290.4	1286.8	1268.8	1238.8	1198.0	1144.1	1087.7	885.0	290.2	67.2	76.8
35°	1304.8	1301.2	1280.8	1254.4	1216.0	1163.3	1103.3	895.8	256.6	61.2	73.2
37.5°	1322.8	1315.6	1288.0	1255.6	1217.2	1168.1	1108.1	894.6	223.1	56.4	70.8
40°	1352.7	1333.6	1294.0	1250.8	1211.2	1162.1	1104.5	885.0	185.9	52.8	68.4
42.5°	1381.5	1353.9	1295.2	1243.6	1199.2	1151.3	1091.3	863.5	145.1	50.4	67.2
45°	1391.1	1350.3	1278.4	1226.8	1184.8	1135.7	1073.3	817.9	98.3	48.0	64.8
47.5°	1327.6	1297.6	1237.6	1199.2	1159.7	1111.7	1046.9	769.9	56.4	45.6	62.4
50°	1211.2	1192.0	1158.5	1134.5	1112.9	1079.3	1015.8	699.2	33.6	43.2	60.0
52.5°	1103.3	1097.3	1073.3	1054.1	1042.1	1026.5	969.0	590.0	27.6	42.0	57.6
55°	957.0	937.8	931.8	924.6	949.8	948.6	870.6	404.1	26.4	39.6	55.2
57.5°	600.8	609.2	640.4	698.0	766.3	805.9	803.5	215.9	25.2	37.2	51.6
60°	456.9	455.7	465.3	489.3	539.7	596.0	648.8	75.6	24.0	34.8	49.2
62.5°	136.7	140.3	169.1	248.2	297.4	367.0	334.6	18.0	22.8	31.2	44.4
65°	27.6	28.8	28.8	32.4	39.6	60.0	73.2	15.6	21.6	28.8	40.8
67.5°	12.0	12.0	12.0	13.2	13.2	15.6	13.2	14.4	19.2	25.2	36.0
70°	10.8	10.8	10.8	10.8	10.8	10.8	12.0	12.0	16.8	21.6	31.2
72.5°	8.4	8.4	8.4	9.6	9.6	9.6	9.6	10.8	14.4	18.0	26.4
75°	7.2	7.2	7.2	7.2	8.4	8.4	8.4	9.6	12.0	15.6	21.6
77.5°	6.0	6.0	6.0	6.0	6.0	7.2	7.2	7.2	9.6	12.0	18.0
80°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	6.0	7.2	9.6	13.2
82.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.8	6.0	7.2	9.6
85°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.6	3.6	4.8	6.0
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4	3.6
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: P1314610

CATALOG NUMBER: P3SQAS17R709735DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	175.1	175.1	175.1
2.5°	133.1	125.9	122.3
5°	109.1	103.1	101.9
7.5°	100.7	99.5	99.5
10°	98.3	99.5	100.7
12.5°	98.3	100.7	101.9
15°	98.3	100.7	101.9
17.5°	98.3	100.7	101.9
20°	97.1	100.7	103.1
22.5°	95.9	100.7	101.9
25°	94.7	100.7	101.9
27.5°	93.5	99.5	101.9
30°	92.3	99.5	103.1
32.5°	89.9	99.5	103.1
35°	88.7	99.5	103.1
37.5°	87.5	99.5	104.3
40°	86.3	99.5	104.3
42.5°	85.1	99.5	104.3
45°	83.9	98.3	104.3
47.5°	81.5	98.3	104.3
50°	80.3	97.1	103.1
52.5°	78.0	95.9	103.1
55°	75.6	93.5	99.5
57.5°	72.0	89.9	94.7
60°	67.2	85.1	89.9
62.5°	61.2	79.1	82.7
65°	56.4	72.0	76.8
67.5°	49.2	63.6	68.4
70°	43.2	55.2	60.0
72.5°	37.2	46.8	51.6
75°	31.2	38.4	42.0
77.5°	24.0	31.2	33.6
80°	19.2	24.0	26.4
82.5°	13.2	16.8	18.0
85°	8.4	10.8	12.0
87.5°	3.6	4.8	4.8
90°	0.0	0.0	0.0

(END OF REPORT)