

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: P1307129

Luminaire Tested: P3SQAS17R709027DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307129
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: P3SQAS17R709027DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

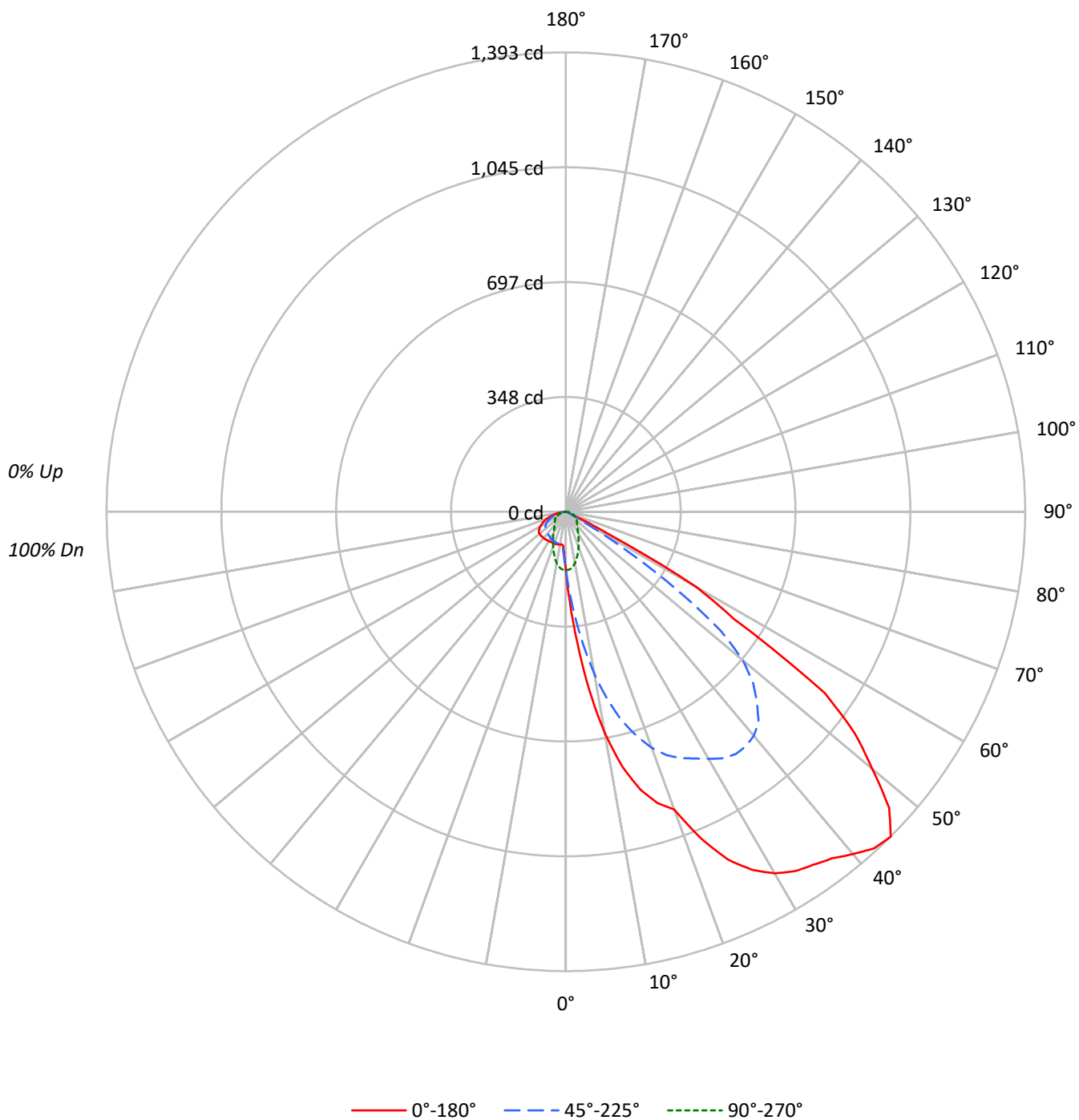
Lumens per Lamp: N/A
Luminaire Lumens: 1204.0 lumens
Efficiency: N/A
Efficacy: 56.8 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1307129

CATALOG NUMBER: P3SQAS17R709027DE010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1307129

CATALOG NUMBER: P3SQAS17R709027DE010 E3SQCA451MW

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	30208	30208	30208	30208	30208
5°	68737	55028	29908	18896	17651
10°	119110	87387	27736	17226	17645
15°	155494	116732	24195	17562	18204
20°	176128	139583	20692	17833	18932
25°	221191	156582	17349	18034	19402
30°	251784	171999	14815	18395	20543
35°	274769	188653	12888	18691	21718
40°	304632	199304	11893	19447	23494
45°	339376	199524	11691	20483	25452
50°	325054	187632	11575	21568	27677
55°	287830	121546	11890	22730	29936
60°	157653	26075	11987	23181	31035
65°	11247	6357	11736	23025	31338
70°	5438	6043	10877	21753	30263
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: 339376 cd/sqm

TEST NUMBER: P1307129

CATALOG NUMBER: P3SQAS17R709027DE010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.9	1.9
10°-20°	97.8	8.1
20°-30°	187.7	15.6
30°-40°	265.5	22.1
40°-50°	300.3	24.9
50°-60°	237.8	19.8
60°-70°	64.1	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°	308.5	25.6
0°-40°	573.9	47.7
0°-60°	1112.1	92.4
0°-90°	1204.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1204.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	175	175	175	175	175	
5°	398	318	173	109	102	47
15°	872	655	136	98	102	246
25°	1164	824	91	95	102	533
35°	1307	897	61	89	103	823
45°	1393	819	48	84	104	1042
55°	959	405	40	76	100	778
65°	28	16	29	56	77	100
75°	7	10	16	31	42	8
85°	2	4	5	8	12	3
90°	0	0	0	0	0	

TEST NUMBER: P1307129

CATALOG NUMBER: P3SQAS17R709027DE010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	175.4	175.4	175.4	175.4	175.4	175.4	175.4	175.4	175.4	175.4	175.4
2.5°	272.7	272.7	271.5	266.7	264.3	258.3	253.5	240.2	207.8	176.6	151.4
5°	397.6	403.6	395.2	394.0	386.8	376.0	368.8	318.3	240.2	173.0	129.7
7.5°	545.4	547.8	545.4	533.3	522.5	504.5	487.7	408.4	272.7	167.0	114.1
10°	681.1	677.5	670.3	661.9	646.3	627.0	598.2	499.7	303.9	158.6	104.5
12.5°	791.6	790.4	782.0	773.6	754.4	729.1	700.3	582.6	330.3	147.8	99.7
15°	872.1	872.1	863.7	854.1	836.1	815.6	783.2	654.7	352.0	135.7	94.9
17.5°	926.2	923.7	917.7	910.5	896.1	875.7	850.5	712.3	366.4	123.7	93.7
20°	961.0	959.8	955.0	944.2	932.2	916.5	893.7	761.6	372.4	112.9	92.5
22.5°	1072.7	1063.1	1045.1	1022.2	993.4	956.2	924.9	798.8	370.0	100.9	90.1
25°	1164.0	1160.4	1141.2	1113.5	1075.1	1027.1	975.4	824.0	358.0	91.3	87.7
27.5°	1224.1	1218.0	1200.0	1170.0	1129.2	1082.3	1034.3	843.3	341.2	82.9	84.1
30°	1266.1	1262.5	1244.5	1210.8	1168.8	1117.1	1067.9	864.9	318.3	74.5	80.5
32.5°	1292.5	1288.9	1270.9	1240.9	1200.0	1146.0	1089.5	886.5	290.7	67.3	76.9
35°	1306.9	1303.3	1282.9	1256.5	1218.0	1165.2	1105.1	897.3	257.1	61.3	73.3
37.5°	1325.0	1317.8	1290.1	1257.7	1219.3	1170.0	1109.9	896.1	223.4	56.5	70.9
40°	1355.0	1335.8	1296.1	1252.9	1213.2	1164.0	1106.3	886.5	186.2	52.9	68.5
42.5°	1383.8	1356.2	1297.3	1245.7	1201.2	1153.2	1093.1	864.9	145.3	50.5	67.3
45°	1393.4	1352.6	1280.5	1228.9	1186.8	1137.6	1075.1	819.2	98.5	48.0	64.9
47.5°	1329.8	1299.7	1239.7	1201.2	1161.6	1113.5	1048.7	771.2	56.5	45.6	62.5
50°	1213.2	1194.0	1160.4	1136.4	1114.7	1081.1	1017.4	700.3	33.6	43.2	60.1
52.5°	1105.1	1099.1	1075.1	1055.9	1043.9	1028.3	970.6	591.0	27.6	42.0	57.7
55°	958.6	939.4	933.4	926.2	951.4	950.2	872.1	404.8	26.4	39.6	55.3
57.5°	601.8	610.2	641.5	699.1	767.6	807.2	804.8	216.2	25.2	37.2	51.7
60°	457.7	456.5	466.1	490.1	540.6	597.0	649.9	75.7	24.0	34.8	49.3
62.5°	136.9	140.5	169.4	248.7	297.9	367.6	335.1	18.0	22.8	31.2	44.4
65°	27.6	28.8	28.8	32.4	39.6	60.1	73.3	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

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CATALOG NUMBER: P3SQAS17R709027DE010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	175.4	175.4	175.4
2.5°	133.3	126.1	122.5
5°	109.3	103.3	102.1
7.5°	100.9	99.7	99.7
10°	98.5	99.7	100.9
12.5°	98.5	100.9	102.1
15°	98.5	100.9	102.1
17.5°	98.5	100.9	102.1
20°	97.3	100.9	103.3
22.5°	96.1	100.9	102.1
25°	94.9	100.9	102.1
27.5°	93.7	99.7	102.1
30°	92.5	99.7	103.3
32.5°	90.1	99.7	103.3
35°	88.9	99.7	103.3
37.5°	87.7	99.7	104.5
40°	86.5	99.7	104.5
42.5°	85.3	99.7	104.5
45°	84.1	98.5	104.5
47.5°	81.7	98.5	104.5
50°	80.5	97.3	103.3
52.5°	78.1	96.1	103.3
55°	75.7	93.7	99.7
57.5°	72.1	90.1	94.9
60°	67.3	85.3	90.1
62.5°	61.3	79.3	82.9
65°	56.5	72.1	76.9
67.5°	49.3	63.7	68.5
70°	43.2	55.3	60.1
72.5°	37.2	46.8	51.7
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)