

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: P1309365

Luminaire Tested: P3SQAS17R709035DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309365
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: P3SQAS17R709035DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

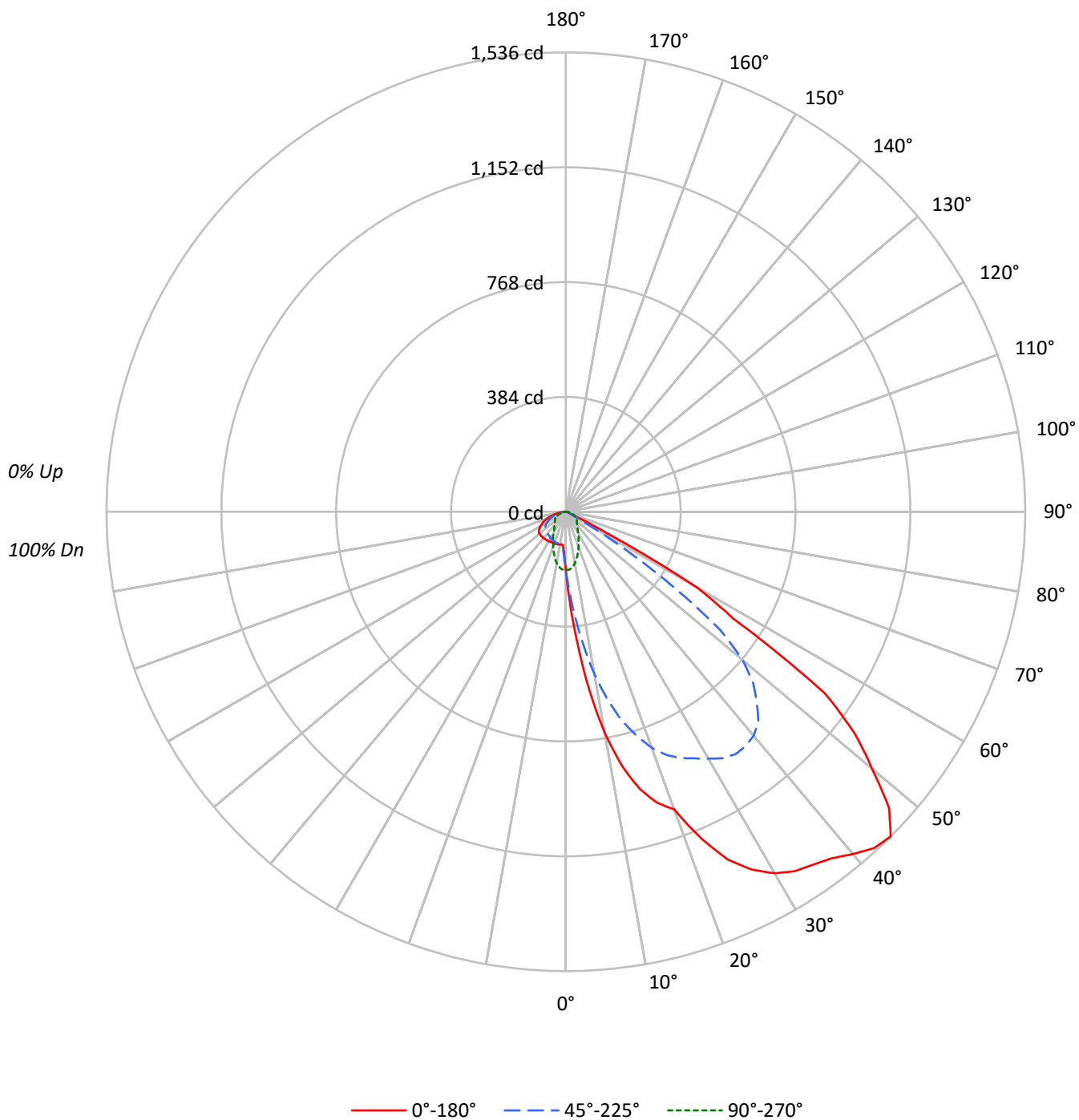
Lumens per Lamp: N/A
Luminaire Lumens: 1327.0 lumens
Efficiency: N/A
Efficacy: 62.6 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

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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	50	30
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°	33291	33291	33291	33291	33291
5°	75756	60646	32951	20832	19449
10°	131282	96324	30569	18992	19447
15°	171380	128660	26673	19363	20059
20°	194125	153841	22818	19647	20875
25°	243785	172582	19117	19877	21378
30°	277497	189559	16327	20264	22651
35°	302858	207932	14192	20604	23947
40°	335747	219672	13107	21425	25899
45°	374059	219910	12909	22578	28058
50°	358277	206816	12780	23765	30517
55°	317226	133976	13121	25042	32999
60°	173738	28727	13227	25523	34203
65°	12429	7009	12959	25347	34516
70°	5992	6647	11984	24019	33335
75°	5257	7053	11445	22890	30809
80°	5256	6546	10513	21026	28861
85°	5138	7904	10473	18377	26084

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 374059 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.2	1.9
10°-20°	107.8	8.1
20°-30°	206.9	15.6
30°-40°	292.6	22.0
40°-50°	331.0	24.9
50°-60°	262.1	19.8
60°-70°	70.7	5.3
70°-80°	23.5	1.8
80°-90°	7.2	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°	340.0	25.6
0°-40°	632.6	47.7
0°-60°	1225.7	92.4
0°-90°	1327.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1327.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	193	193	193	193	193	
5°	438	351	191	120	112	52
15°	961	722	150	109	112	271
25°	1283	908	101	105	112	588
35°	1440	989	68	98	114	907
45°	1536	903	53	93	115	1149
55°	1056	446	44	83	110	857
65°	30	17	32	62	85	110
75°	8	11	17	34	46	9
85°	3	4	5	9	13	3
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	193.3	193.3	193.3	193.3	193.3	193.3	193.3	193.3	193.3	193.3	193.3
2.5°	300.5	300.5	299.2	293.9	291.3	284.6	279.4	264.8	229.0	194.6	166.8
5°	438.2	444.8	435.6	434.3	426.3	414.4	406.5	350.8	264.8	190.6	143.0
7.5°	601.1	603.7	601.1	587.8	575.9	556.1	537.5	450.1	300.5	184.0	125.8
10°	750.7	746.7	738.8	729.5	712.3	691.1	659.3	550.8	335.0	174.8	115.2
12.5°	872.5	871.2	861.9	852.6	831.4	803.6	771.9	642.1	364.1	162.8	109.9
15°	961.2	961.2	951.9	941.3	921.5	899.0	863.2	721.6	387.9	149.6	104.6
17.5°	1020.8	1018.1	1011.5	1003.6	987.7	965.2	937.4	785.1	403.8	136.4	103.3
20°	1059.2	1057.8	1052.5	1040.6	1027.4	1010.2	985.0	839.4	410.4	124.5	101.9
22.5°	1182.3	1171.7	1151.8	1126.7	1094.9	1053.9	1019.4	880.4	407.8	111.2	99.3
25°	1282.9	1278.9	1257.8	1227.3	1184.9	1132.0	1075.0	908.2	394.5	100.6	96.6
27.5°	1349.1	1342.5	1322.6	1289.5	1244.5	1192.9	1139.9	929.4	376.0	91.4	92.7
30°	1395.4	1391.5	1371.6	1334.5	1288.2	1231.3	1177.0	953.2	350.8	82.1	88.7
32.5°	1424.6	1420.6	1400.7	1367.6	1322.6	1263.0	1200.8	977.1	320.4	74.1	84.7
35°	1440.5	1436.5	1414.0	1384.9	1342.5	1284.2	1218.0	989.0	283.3	67.5	80.8
37.5°	1460.3	1452.4	1421.9	1386.2	1343.8	1289.5	1223.3	987.7	246.3	62.2	78.1
40°	1493.4	1472.2	1428.5	1380.9	1337.2	1282.9	1219.4	977.1	205.2	58.3	75.5
42.5°	1525.2	1494.7	1429.9	1372.9	1323.9	1271.0	1204.8	953.2	160.2	55.6	74.1
45°	1535.8	1490.8	1411.3	1354.4	1308.1	1253.8	1184.9	902.9	108.6	53.0	71.5
47.5°	1465.6	1432.5	1366.3	1323.9	1280.3	1227.3	1155.8	850.0	62.2	50.3	68.8
50°	1337.2	1316.0	1278.9	1252.5	1228.6	1191.6	1121.4	771.9	37.1	47.7	66.2
52.5°	1218.0	1211.4	1184.9	1163.8	1150.5	1133.3	1069.8	651.4	30.5	46.3	63.5
55°	1056.5	1035.3	1028.7	1020.8	1048.6	1047.2	961.2	446.2	29.1	43.7	60.9
57.5°	663.3	672.6	707.0	770.5	846.0	889.7	887.0	238.3	27.8	41.0	56.9
60°	504.4	503.1	513.7	540.2	595.8	658.0	716.3	83.4	26.5	38.4	54.3
62.5°	150.9	154.9	186.7	274.1	328.3	405.1	369.4	19.9	25.2	34.4	49.0
65°	30.5	31.8	31.8	35.7	43.7	66.2	80.8	17.2	23.8	31.8	45.0
67.5°	13.2	13.2	13.2	14.6	14.6	17.2	14.6	15.9	21.2	27.8	39.7
70°	11.9	11.9	11.9	11.9	11.9	11.9	13.2	13.2	18.5	23.8	34.4
72.5°	9.3	9.3	9.3	10.6	10.6	10.6	10.6	11.9	15.9	19.9	29.1
75°	7.9	7.9	7.9	7.9	9.3	9.3	9.3	10.6	13.2	17.2	23.8
77.5°	6.6	6.6	6.6	6.6	6.6	7.9	7.9	7.9	10.6	13.2	19.9
80°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	6.6	7.9	10.6	14.6
82.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	5.3	6.6	7.9	10.6
85°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	4.0	4.0	5.3	6.6
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6	2.6	4.0
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):

	135°	157.5°	180°
0°	193.3	193.3	193.3
2.5°	147.0	139.0	135.0
5°	120.5	113.9	112.5
7.5°	111.2	109.9	109.9
10°	108.6	109.9	111.2
12.5°	108.6	111.2	112.5
15°	108.6	111.2	112.5
17.5°	108.6	111.2	112.5
20°	107.2	111.2	113.9
22.5°	105.9	111.2	112.5
25°	104.6	111.2	112.5
27.5°	103.3	109.9	112.5
30°	101.9	109.9	113.9
32.5°	99.3	109.9	113.9
35°	98.0	109.9	113.9
37.5°	96.6	109.9	115.2
40°	95.3	109.9	115.2
42.5°	94.0	109.9	115.2
45°	92.7	108.6	115.2
47.5°	90.0	108.6	115.2
50°	88.7	107.2	113.9
52.5°	86.1	105.9	113.9
55°	83.4	103.3	109.9
57.5°	79.4	99.3	104.6
60°	74.1	94.0	99.3
62.5°	67.5	87.4	91.4
65°	62.2	79.4	84.7
67.5°	54.3	70.2	75.5
70°	47.7	60.9	66.2
72.5°	41.0	51.6	56.9
75°	34.4	42.4	46.3
77.5°	26.5	34.4	37.1
80°	21.2	26.5	29.1
82.5°	14.6	18.5	19.9
85°	9.3	11.9	13.2
87.5°	4.0	5.3	5.3
90°	0.0	0.0	0.0

(END OF REPORT)