

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: P1316643

Luminaire Tested: P3SQAS02R209830DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R209830DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

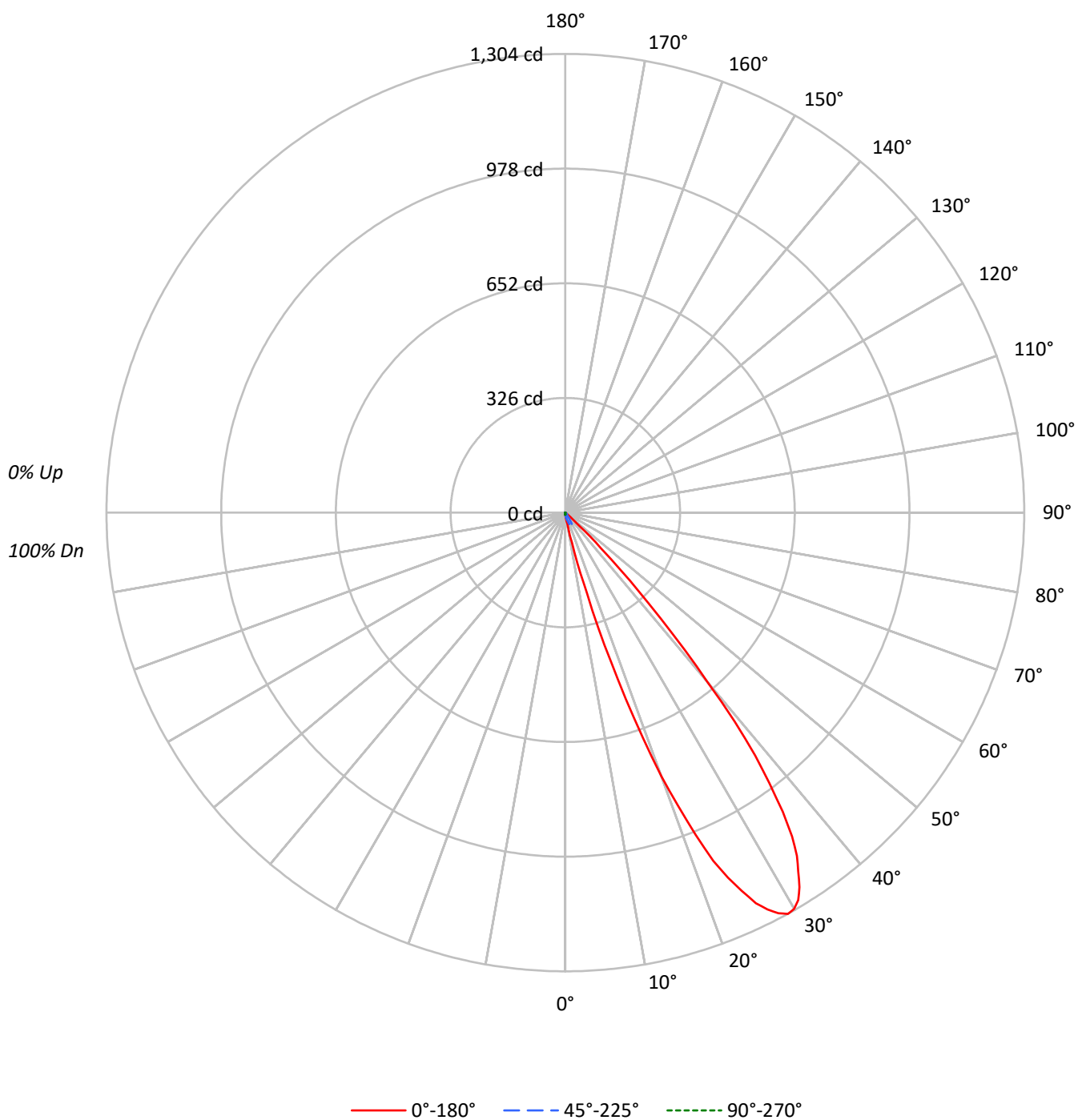
Lumens per Lamp: N/A
Luminaire Lumens: 180.0 lumens
Efficiency: N/A
Efficacy: 50.0 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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	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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	93	93	92
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	77	77	75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	69	69	68
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	63	63	61
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	57	57	55
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	51	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	46	46	45
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	42	42	40
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	38	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1102	1102	1102	1102	1102
5°	2420	1694	1020	467	346
10°	6016	3008	717	87	0
15°	42292	4119	410	0	0
20°	146162	6928	165	0	0
25°	225296	8836	76	0	0
30°	258605	6841	0	0	0
35°	236168	2607	0	0	0
40°	141592	1214	0	0	0
45°	34805	560	0	0	0
50°	3831	134	0	0	0
55°	540	0	60	0	0
60°	0	0	138	0	0
65°	0	0	163	0	0
70°	0	101	252	0	0
75°	0	133	333	0	0
80°	0	198	496	0	0
85°	0	395	988	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 37094 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.7	0.4
10°-20°	14.1	7.8
20°-30°	71.1	39.5
30°-40°	76.9	42.7
40°-50°	16.2	9.0
50°-60°	0.5	0.3
60°-70°	0.1	0.1
70°-80°	0.2	0.1
80°-90°	0.2	0.1
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°	85.9	47.7
0°-40°	162.8	90.4
0°-60°	179.6	99.7
0°-90°	180.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	180.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6	6	6	6	6	
5°	14	10	6	3	2	2
15°	237	23	2	0	0	99
25°	1186	46	0	0	0	536
35°	1123	12	0	0	0	662
45°	143	2	0	0	0	157
55°	2	0	0	0	0	3
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
2.5°	8.8	8.6	8.8	8.6	8.8	8.8	8.8	8.6	8.6	8.6	8.6
5°	14.0	14.0	13.8	14.0	14.0	14.0	14.0	13.8	13.8	13.6	13.6
7.5°	22.0	22.0	21.8	21.8	22.0	22.2	21.5	21.8	21.8	21.8	21.7
10°	34.4	35.1	34.4	35.3	34.6	34.0	34.9	34.0	34.0	33.8	33.3
12.5°	86.6	84.7	83.4	80.4	83.4	81.1	81.6	81.1	79.3	77.0	75.5
15°	237.2	237.2	230.2	239.5	232.7	235.2	222.3	222.5	215.9	208.7	204.8
17.5°	495.9	500.4	495.7	492.8	486.7	478.0	474.4	465.3	453.3	439.3	437.7
20°	797.5	778.7	787.5	779.4	774.4	763.7	751.7	744.2	733.6	715.9	689.7
21°	892.4	891.7	891.5	891.3	884.0	866.4	855.5	840.5	825.6	807.4	785.5
22°	988.0	991.4	992.8	982.4	967.4	959.5	952.0	931.4	908.0	898.5	872.5
23°	1075.7	1072.5	1063.2	1058.3	1046.7	1044.4	1022.0	1008.9	986.0	975.6	944.8
24°	1135.5	1133.9	1129.6	1122.4	1113.1	1098.8	1085.4	1064.8	1046.0	1029.0	1000.3
25°	1185.6	1187.1	1179.2	1174.3	1164.3	1148.2	1131.7	1109.2	1091.6	1071.8	1038.7
26°	1235.2	1225.2	1218.9	1211.8	1200.8	1182.4	1166.5	1146.2	1124.9	1102.7	1070.3
27°	1265.8	1256.9	1247.4	1240.4	1227.9	1210.3	1193.3	1170.9	1147.1	1124.8	1091.5
28°	1290.0	1280.1	1270.8	1262.4	1248.1	1229.3	1208.9	1186.2	1161.5	1138.4	1104.4
29°	1304.3	1292.7	1282.7	1273.2	1260.1	1239.7	1219.1	1194.8	1170.9	1146.8	1112.0
30°	1300.4	1290.3	1280.7	1271.0	1257.8	1238.6	1218.2	1194.9	1170.9	1147.1	1111.9
31°	1285.0	1272.6	1265.6	1256.0	1244.5	1225.0	1207.5	1182.0	1160.4	1134.6	1099.3
32°	1255.4	1247.6	1238.3	1230.7	1219.6	1198.9	1181.7	1160.9	1135.3	1114.2	1077.1
33°	1215.3	1208.0	1203.3	1194.6	1183.8	1169.5	1148.9	1130.0	1101.1	1079.5	1042.4
34°	1177.0	1167.7	1156.1	1153.6	1144.3	1125.8	1107.2	1087.9	1062.1	1034.5	997.1
35°	1123.3	1113.7	1102.9	1103.8	1092.7	1071.2	1052.3	1030.6	1006.1	973.7	938.2
36°	1051.5	1045.1	1043.5	1039.2	1026.5	1000.9	982.8	955.6	935.0	895.4	865.0
37°	964.0	966.3	954.7	949.1	934.3	916.4	906.2	871.3	847.3	817.6	776.4
38°	875.6	872.2	858.4	861.8	841.4	822.8	793.9	773.2	746.3	718.8	685.8
39°	765.1	756.7	740.2	740.9	725.6	704.6	676.7	652.2	636.0	609.6	578.0
40°	629.8	626.2	620.5	611.0	590.8	581.6	556.7	530.2	516.6	479.9	464.5
42.5°	349.4	344.6	334.9	331.5	320.8	310.1	295.6	277.8	269.2	258.3	234.0
45°	142.9	152.3	150.0	147.3	139.1	139.6	129.2	130.5	121.0	114.6	110.1
47.5°	31.5	34.2	34.4	33.1	34.4	33.3	32.8	31.9	32.0	32.6	31.3
50°	14.3	14.1	14.5	14.3	14.1	14.0	13.8	13.2	13.6	13.2	12.9
52.5°	5.5	5.7	5.7	5.4	5.5	5.5	5.5	5.4	5.4	5.4	5.4
55°	1.8	1.8	1.8	1.6	1.6	1.8	1.8	1.8	1.8	1.8	1.6
57.5°	0.2	0.4	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.4	0.4
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
2.5°	8.2	7.5	7.0	6.4	5.4	4.5	4.1	4.1
5°	12.7	9.8	7.3	5.9	4.1	2.7	2.1	2.0
7.5°	19.2	13.2	7.7	5.0	2.7	1.4	0.9	0.7
10°	27.7	17.2	8.1	4.1	1.6	0.5	0.0	0.0
12.5°	48.5	20.6	8.1	3.2	0.7	0.0	0.0	0.0
15°	111.2	23.1	7.7	2.3	0.2	0.0	0.0	0.0
17.5°	230.9	29.0	6.8	1.6	0.0	0.0	0.0	0.0
20°	368.8	37.8	5.4	0.9	0.0	0.0	0.0	0.0
21°	425.5	40.8	4.8	0.7	0.0	0.0	0.0	0.0
22°	466.3	43.7	4.3	0.5	0.0	0.0	0.0	0.0
23°	511.3	45.5	3.8	0.4	0.0	0.0	0.0	0.0
24°	544.4	46.5	3.2	0.4	0.0	0.0	0.0	0.0
25°	565.0	46.5	2.9	0.4	0.0	0.0	0.0	0.0
26°	577.1	45.5	2.5	0.2	0.0	0.0	0.0	0.0
27°	580.0	43.7	2.1	0.2	0.0	0.0	0.0	0.0
28°	576.4	41.4	1.8	0.0	0.0	0.0	0.0	0.0
29°	565.2	38.0	1.6	0.0	0.0	0.0	0.0	0.0
30°	553.0	34.4	1.3	0.0	0.0	0.0	0.0	0.0
31°	532.2	29.5	1.1	0.0	0.0	0.0	0.0	0.0
32°	508.2	24.5	0.9	0.0	0.0	0.0	0.0	0.0
33°	476.2	19.3	0.7	0.0	0.0	0.0	0.0	0.0
34°	428.9	15.2	0.7	0.0	0.0	0.0	0.0	0.0
35°	386.5	12.4	0.5	0.0	0.0	0.0	0.0	0.0
36°	331.0	9.8	0.5	0.0	0.0	0.0	0.0	0.0
37°	283.6	8.2	0.5	0.0	0.0	0.0	0.0	0.0
38°	237.4	7.0	0.4	0.0	0.0	0.0	0.0	0.0
39°	192.6	6.1	0.4	0.0	0.0	0.0	0.0	0.0
40°	153.6	5.4	0.4	0.0	0.0	0.0	0.0	0.0
42.5°	82.9	3.6	0.0	0.0	0.0	0.0	0.0	0.0
45°	45.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	20.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0
50°	6.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	1.6	0.0	0.0	0.2	0.0	0.0	0.0	0.0
57.5°	0.4	0.0	0.0	0.2	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.2	0.4	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.2	0.4	0.2	0.0	0.0	0.0
65°	0.0	0.0	0.4	0.4	0.2	0.0	0.0	0.0
67.5°	0.0	0.2	0.4	0.5	0.2	0.0	0.0	0.0
70°	0.0	0.2	0.4	0.5	0.2	0.0	0.0	0.0
72.5°	0.0	0.2	0.4	0.5	0.2	0.0	0.0	0.0
75°	0.0	0.2	0.4	0.5	0.2	0.0	0.0	0.0
77.5°	0.0	0.2	0.4	0.5	0.2	0.0	0.0	0.0
80°	0.0	0.2	0.4	0.5	0.2	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.2	0.4	0.5	0.2	0.0	0.0	0.0
85°	0.0	0.2	0.4	0.5	0.2	0.0	0.0	0.0
87.5°	0.0	0.2	0.4	0.5	0.2	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)