

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: P1310321

Luminaire Tested: P3SQAS13R709040DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310321
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-57)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R709040DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

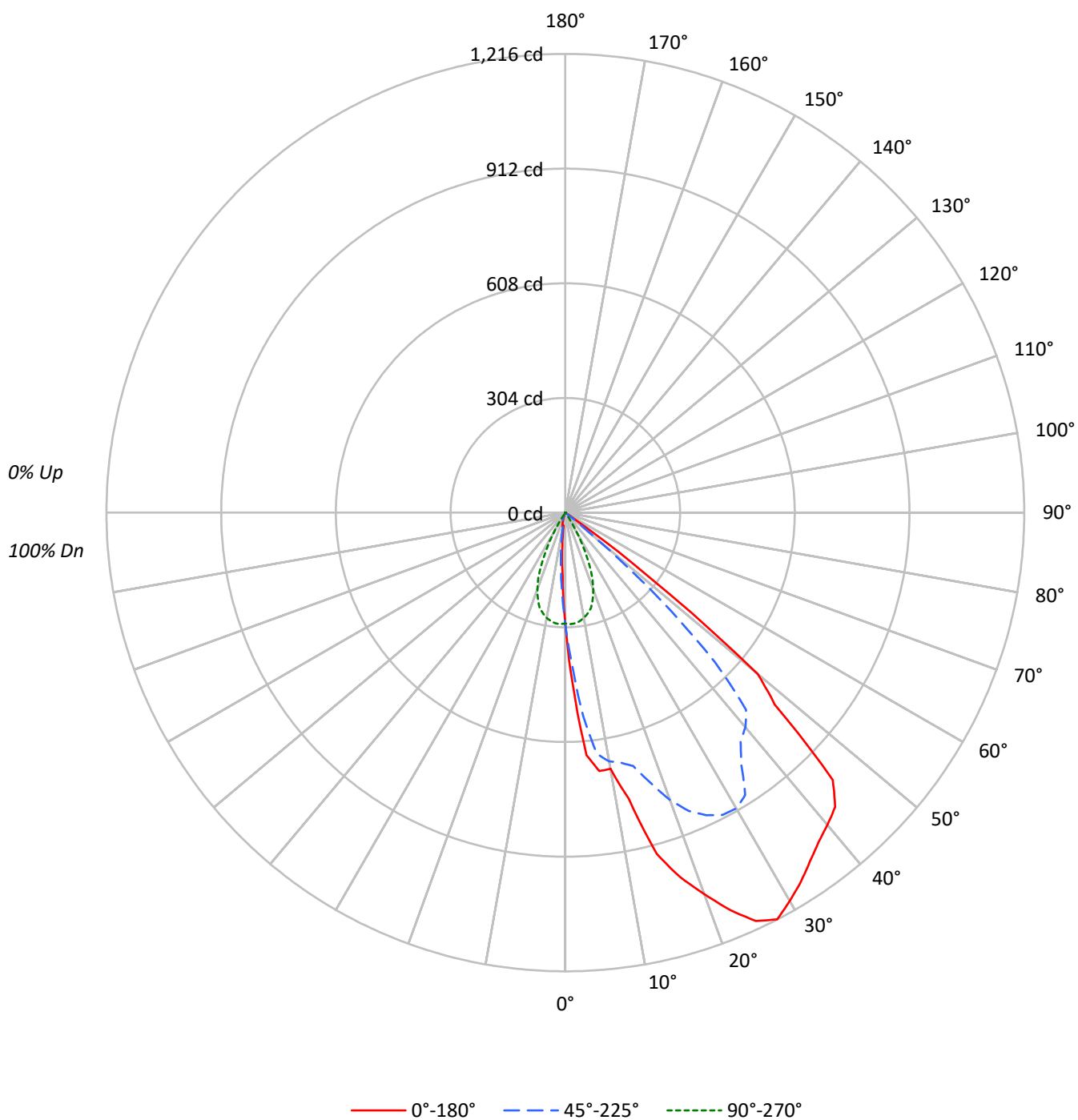
Lumens per Lamp: N/A
Luminaire Lumens: 791.0 lumens
Efficiency: N/A
Efficacy: 54.2 lumens/watt
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82		
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73		
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66		
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59		
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53		
7	74	63	56	50	73	62	55	50	61	55	50	59	54	50	58	53	49	48		
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43		
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39		
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	50565	50565	50565	50565	50565
5°	111543	93598	50948	23149	15248
10°	120632	117117	49578	6436	6645
15°	166976	123988	46768	6561	4778
20°	197204	148526	39679	3885	1430
25°	226968	168212	27991	627	0
30°	236411	180033	12867	0	0
35°	237493	170614	694	0	0
40°	242919	166884	0	0	0
45°	244144	136759	0	0	0
50°	178254	28401	0	0	0
55°	10059	0	0	0	0
60°	0	379	379	0	0
65°	0	0	448	0	0
70°	0	554	554	0	0
75°	0	732	732	0	0
80°	0	1091	1091	1091	0
85°	0	2174	2174	2174	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 248747 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.1	4.1
10°-20°	107.2	13.6
20°-30°	192.8	24.4
30°-40°	234.4	29.6
40°-50°	181.0	22.9
50°-60°	42.1	5.3
60°-70°	0.3	0.0
70°-80°	0.6	0.1
80°-90°	0.6	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°	332.1	42.0
0°-40°	566.5	71.6
0°-60°	789.5	99.8
0°-90°	791.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	791.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	294	294	294	294	294	
5°	645	541	295	134	88	61
15°	936	695	262	37	27	262
25°	1194	885	147	3	0	544
35°	1130	812	3	0	0	710
45°	1002	562	0	0	0	708
55°	34	0	0	0	0	138
65°	0	0	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	1	1	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6
2.5°	457.7	457.7	459.9	458.8	448.7	444.3	429.7	421.9	419.7	401.8	395.1
5°	645.2	646.3	640.7	639.6	628.4	620.6	608.3	589.4	570.4	541.4	515.7
7.5°	690.9	689.8	688.7	688.7	686.5	682.0	676.4	670.9	663.0	645.2	625.1
10°	689.8	689.8	688.7	688.7	687.6	688.7	687.6	684.2	680.9	669.7	658.6
12.5°	776.9	770.2	761.3	747.9	725.5	708.8	689.8	684.2	682.0	678.7	672.0
15°	936.5	930.9	912.0	888.5	866.2	828.2	798.1	756.8	724.4	695.4	680.9
17.5°	1013.5	1016.9	995.7	981.2	960.0	929.8	894.1	851.7	805.9	751.2	707.7
20°	1076.0	1079.4	1061.5	1047.0	1022.5	991.2	960.0	914.2	870.7	810.4	753.5
22.5°	1139.7	1141.9	1125.2	1103.9	1076.0	1043.7	1003.5	956.6	909.7	856.1	795.9
25°	1194.4	1192.1	1164.2	1134.1	1107.3	1072.7	1033.6	987.9	943.2	885.2	828.2
27.5°	1215.6	1214.5	1183.2	1154.2	1122.9	1076.0	1041.4	1001.3	954.4	903.0	845.0
30°	1188.8	1206.6	1186.5	1165.3	1127.4	1080.5	1047.0	999.0	955.5	905.3	839.4
32.5°	1160.9	1183.2	1176.5	1166.5	1121.8	1085.0	1041.4	996.8	945.4	887.4	786.9
35°	1129.6	1153.1	1154.2	1143.0	1102.8	1066.0	1025.8	978.9	920.9	811.5	737.8
37.5°	1101.7	1124.0	1130.7	1107.3	1076.0	1026.9	990.1	941.0	836.1	762.4	724.4
40°	1080.5	1097.3	1107.3	1070.5	1039.2	991.2	948.8	862.8	768.0	742.3	688.7
42.5°	1058.2	1073.8	1078.3	1038.1	990.1	944.3	882.9	774.7	746.8	708.8	564.8
45°	1002.4	1021.3	1010.2	971.1	935.4	887.4	795.9	749.0	718.9	561.5	347.1
47.5°	752.3	773.5	803.7	814.8	827.1	792.5	742.3	725.5	590.5	340.4	108.3
50°	665.3	661.9	661.9	667.5	677.5	688.7	703.2	611.7	355.0	106.0	0.0
52.5°	271.2	284.6	350.5	409.7	477.7	545.8	567.0	375.1	138.4	2.2	0.0
55°	33.5	33.5	46.9	80.4	132.8	214.3	241.1	120.6	10.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.1	8.9	24.6	16.7	4.5	1.1	1.1	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
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	1.1	1.1
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6
2.5°	384.0	370.6	351.6	295.8	247.8	205.4	180.8	168.6
5°	491.1	458.8	415.2	294.7	200.9	133.9	100.5	88.2
7.5°	593.8	557.0	483.3	290.2	154.0	78.1	43.5	34.6
10°	638.5	611.7	545.8	283.5	111.6	36.8	36.8	38.0
12.5°	656.3	636.2	582.7	273.5	73.7	35.7	38.0	35.7
15°	668.6	649.6	600.5	262.3	42.4	36.8	30.1	26.8
17.5°	675.3	653.0	606.1	241.1	27.9	31.3	19.0	15.6
20°	696.5	660.8	610.6	216.5	26.8	21.2	10.0	7.8
22.5°	732.2	676.4	611.7	186.4	21.2	12.3	3.3	0.0
25°	764.6	697.6	615.0	147.3	6.7	3.3	0.0	0.0
27.5°	780.2	704.3	613.9	103.8	0.0	0.0	0.0	0.0
30°	761.3	687.6	603.9	64.7	0.0	0.0	0.0	0.0
32.5°	716.6	675.3	572.6	27.9	0.0	0.0	0.0	0.0
35°	702.1	648.5	501.2	3.3	0.0	0.0	0.0	0.0
37.5°	669.7	571.5	368.4	0.0	0.0	0.0	0.0	0.0
40°	576.0	413.0	175.2	0.0	0.0	0.0	0.0	0.0
42.5°	380.6	176.4	10.0	0.0	0.0	0.0	0.0	0.0
45°	133.9	11.2	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.1	1.1	1.1	1.1	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
65°	0.0	0.0	1.1	1.1	0.0	0.0	0.0	0.0
67.5°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0
70°	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0
72.5°	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0
75°	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0
77.5°	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0
80°	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0
85°	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0
87.5°	1.1	1.1	1.1	1.1	1.1	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)