

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: P1312662

Luminaire Tested: P3SQAS17R709727DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312662
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: P3SQAS17R709727DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 97CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

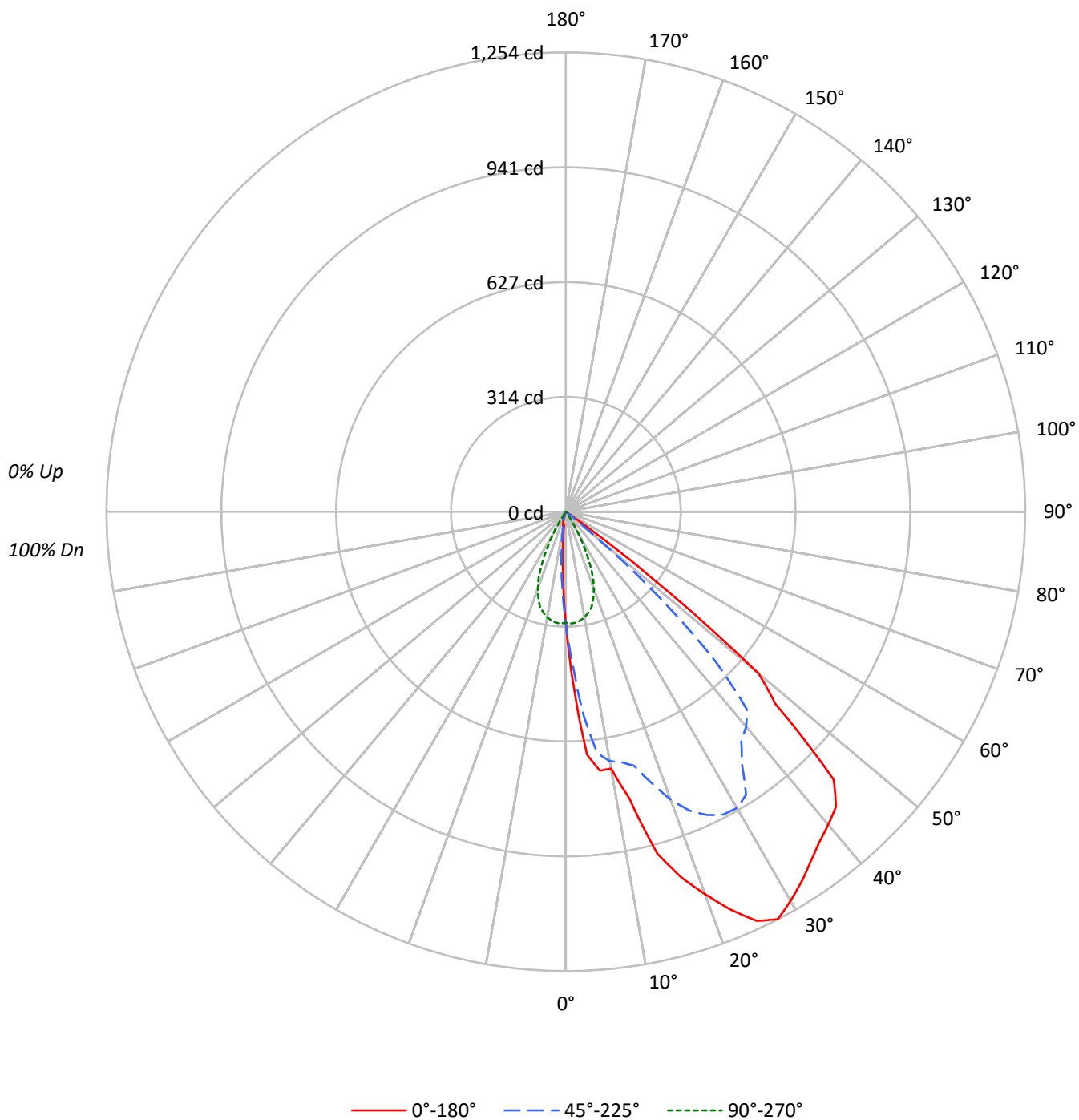
Lumens per Lamp: N/A
Luminaire Lumens: 816.1 lumens
Efficiency: N/A
Efficacy: 38.5 lumens/watt
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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			0
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	90	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°	52149	52149	52149	52149	52149
5°	115069	96554	52556	23892	15732
10°	124444	120824	51152	6645	6855
15°	172254	127911	48247	6775	4921
20°	203454	153218	40944	4014	1485
25°	234132	173513	28884	665	0
30°	243889	185721	13284	0	0
35°	244999	175996	736	0	0
40°	250608	172168	0	0	0
45°	251865	141070	0	0	0
50°	183881	29312	0	0	0
55°	10359	0	0	0	0
60°	0	413	413	0	0
65°	0	0	489	0	0
70°	0	604	604	0	0
75°	0	799	799	0	0
80°	0	1190	1190	1190	0
85°	0	2371	2371	2371	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 256614 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.1	4.1
10°-20°	110.6	13.6
20°-30°	198.9	24.4
30°-40°	241.8	29.6
40°-50°	186.7	22.9
50°-60°	43.4	5.3
60°-70°	0.3	0.0
70°-80°	0.6	0.1
80°-90°	0.7	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°	342.6	42.0
0°-40°	584.4	71.6
0°-60°	814.5	99.8
0°-90°	816.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	816.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	303	303	303	303	303	
5°	666	558	304	138	91	63
15°	966	717	271	38	28	270
25°	1232	913	152	4	0	561
35°	1165	837	4	0	0	732
45°	1034	579	0	0	0	731
55°	34	0	0	0	0	142
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°	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8
2.5°	472.1	472.1	474.4	473.3	462.9	458.3	443.3	435.3	433.0	414.5	407.6
5°	665.6	666.7	661.0	659.8	648.3	640.2	627.6	608.0	588.4	558.5	532.0
7.5°	712.8	711.6	710.5	710.5	708.2	703.6	697.8	692.1	684.0	665.6	644.8
10°	711.6	711.6	710.5	710.5	709.3	710.5	709.3	705.9	702.4	690.9	679.4
12.5°	801.4	794.5	785.3	771.5	748.5	731.2	711.6	705.9	703.6	700.1	693.2
15°	966.1	960.4	940.8	916.6	893.6	854.4	823.3	780.7	747.3	717.4	702.4
17.5°	1045.6	1049.0	1027.1	1012.2	990.3	959.2	922.4	878.6	831.4	775.0	730.1
20°	1110.1	1113.5	1095.1	1080.1	1054.8	1022.5	990.3	943.1	898.2	836.0	777.3
22.5°	1175.7	1178.0	1160.7	1138.8	1110.1	1076.7	1035.2	986.8	938.5	883.2	821.0
25°	1232.1	1229.8	1201.0	1169.9	1142.3	1106.6	1066.3	1019.1	973.0	913.1	854.4
27.5°	1254.0	1252.8	1220.6	1190.7	1158.4	1110.1	1074.4	1032.9	984.5	931.6	871.7
30°	1226.4	1244.8	1224.1	1202.2	1163.0	1114.7	1080.1	1030.6	985.7	933.9	865.9
32.5°	1197.6	1220.6	1213.7	1203.3	1157.3	1119.3	1074.4	1028.3	975.3	915.4	811.8
35°	1165.3	1189.5	1190.7	1179.1	1137.7	1099.7	1058.2	1009.9	950.0	837.1	761.1
37.5°	1136.5	1159.6	1166.5	1142.3	1110.1	1059.4	1021.4	970.7	862.5	786.5	747.3
40°	1114.7	1131.9	1142.3	1104.3	1072.1	1022.5	978.8	890.1	792.2	765.8	710.5
42.5°	1091.6	1107.7	1112.4	1070.9	1021.4	974.2	910.8	799.1	770.4	731.2	582.7
45°	1034.1	1053.6	1042.1	1001.8	965.0	915.4	821.0	772.7	741.6	579.2	358.1
47.5°	776.1	798.0	829.1	840.6	853.3	817.6	765.8	748.5	609.1	351.2	111.7
50°	686.3	682.8	682.8	688.6	699.0	710.5	725.4	631.0	366.2	109.4	0.0
52.5°	279.8	293.6	361.6	422.6	492.8	563.1	585.0	386.9	142.8	2.3	0.0
55°	34.5	34.5	48.4	82.9	137.0	221.1	248.7	124.4	10.4	0.0	0.0
57.5°	0.0	0.0	0.0	1.2	9.2	25.3	17.3	4.6	1.2	1.2	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
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	1.2	1.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2
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°	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8
2.5°	396.1	382.3	362.7	305.1	255.6	211.9	186.5	173.9
5°	506.7	473.3	428.4	304.0	207.3	138.2	103.6	91.0
7.5°	612.6	574.6	498.6	299.4	158.9	80.6	44.9	35.7
10°	658.7	631.0	563.1	292.5	115.2	38.0	38.0	39.2
12.5°	677.1	656.4	601.1	282.1	76.0	36.8	39.2	36.8
15°	689.8	670.2	619.5	270.6	43.8	38.0	31.1	27.6
17.5°	696.7	673.6	625.3	248.7	28.8	32.2	19.6	16.1
20°	718.5	681.7	629.9	223.4	27.6	21.9	10.4	8.1
22.5°	755.4	697.8	631.0	192.3	21.9	12.7	3.5	0.0
25°	788.8	719.7	634.5	152.0	6.9	3.5	0.0	0.0
27.5°	804.9	726.6	633.3	107.1	0.0	0.0	0.0	0.0
30°	785.3	709.3	623.0	66.8	0.0	0.0	0.0	0.0
32.5°	739.3	696.7	590.7	28.8	0.0	0.0	0.0	0.0
35°	724.3	669.0	517.0	3.5	0.0	0.0	0.0	0.0
37.5°	690.9	589.6	380.0	0.0	0.0	0.0	0.0	0.0
40°	594.2	426.1	180.8	0.0	0.0	0.0	0.0	0.0
42.5°	392.7	181.9	10.4	0.0	0.0	0.0	0.0	0.0
45°	138.2	11.5	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2.3	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°	1.2	1.2	1.2	1.2	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	1.2	1.2	0.0	0.0	0.0	0.0
67.5°	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0
70°	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0
72.5°	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0
75°	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0
77.5°	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0
80°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0
85°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0
87.5°	1.2	1.2	1.2	1.2	1.2	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)