

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: P1316466

Luminaire Tested: P3SQAS17R709827DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316466
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: P3SQAS17R709827DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

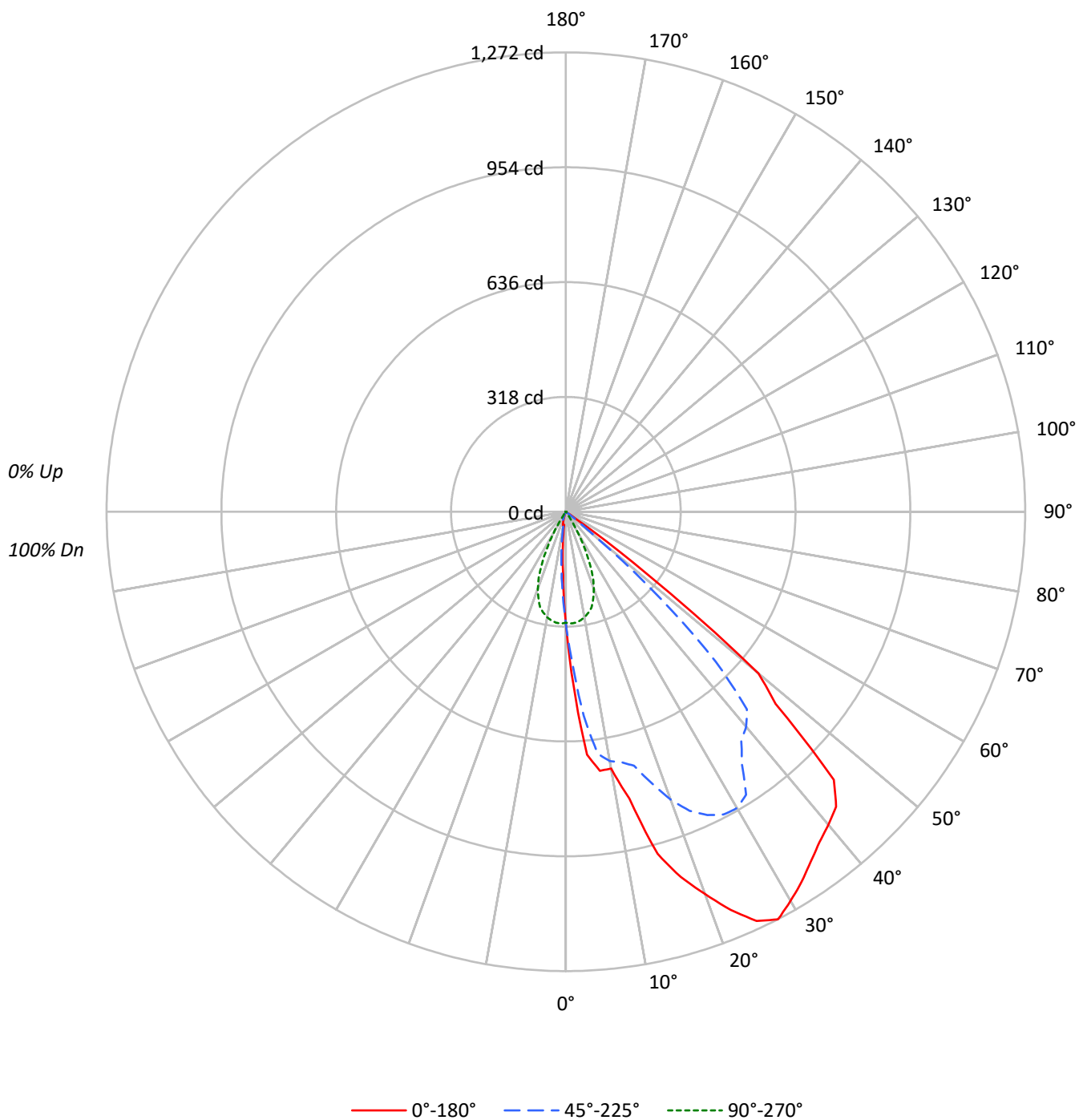
Lumens per Lamp: N/A
Luminaire Lumens: 828.0 lumens
Efficiency: N/A
Efficacy: 40.6 lumens/watt
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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	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°	52924	52924	52924	52924	52924
5°	116763	97971	53334	24238	15957
10°	126280	122608	51904	6750	6943
15°	174786	129783	48961	6882	4992
20°	206442	155473	41549	4069	1503
25°	237571	176079	29302	665	0
30°	247468	188445	13483	0	0
35°	248615	178603	736	0	0
40°	254295	174686	0	0	0
45°	255567	143140	0	0	0
50°	186587	29740	0	0	0
55°	10539	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: 260390 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.6	4.1
10°-20°	112.3	13.6
20°-30°	201.8	24.4
30°-40°	245.3	29.6
40°-50°	189.4	22.9
50°-60°	44.1	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°	347.7	42.0
0°-40°	593.0	71.6
0°-60°	826.5	99.8
0°-90°	828.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	828.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	307	307	307	307	307	
5°	675	567	308	140	92	64
15°	980	728	275	39	28	274
25°	1250	927	154	4	0	569
35°	1182	850	4	0	0	743
45°	1049	588	0	0	0	742
55°	35	0	0	0	0	144
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°	307.3	307.3	307.3	307.3	307.3	307.3	307.3	307.3	307.3	307.3	307.3
2.5°	479.1	479.1	481.4	480.2	469.7	465.0	449.8	441.7	439.3	420.6	413.6
5°	675.4	676.5	670.7	669.5	657.8	649.7	636.8	616.9	597.1	566.7	539.8
7.5°	723.3	722.1	720.9	720.9	718.6	713.9	708.1	702.2	694.1	675.4	654.3
10°	722.1	722.1	720.9	720.9	719.8	720.9	719.8	716.3	712.7	701.1	689.4
12.5°	813.2	806.2	796.9	782.9	759.5	742.0	722.1	716.3	713.9	710.4	703.4
15°	980.3	974.5	954.6	930.1	906.7	867.0	835.4	792.2	758.3	727.9	712.7
17.5°	1060.9	1064.4	1042.2	1027.1	1004.9	973.3	935.9	891.5	843.6	786.4	740.8
20°	1126.4	1129.9	1111.2	1096.0	1070.3	1037.6	1004.9	957.0	911.4	848.3	788.7
22.5°	1193.0	1195.3	1177.8	1155.6	1126.4	1092.5	1050.4	1001.4	952.3	896.2	833.1
25°	1250.2	1247.9	1218.7	1187.1	1159.1	1122.9	1082.0	1034.1	987.3	926.6	867.0
27.5°	1272.4	1271.3	1238.5	1208.2	1175.5	1126.4	1090.2	1048.1	999.0	945.3	884.5
30°	1244.4	1263.1	1242.1	1219.9	1180.1	1131.1	1096.0	1045.8	1000.2	947.6	878.7
32.5°	1215.2	1238.5	1231.5	1221.0	1174.3	1135.7	1090.2	1043.4	989.7	928.9	823.8
35°	1182.5	1207.0	1208.2	1196.5	1154.4	1115.9	1073.8	1024.7	964.0	849.5	772.3
37.5°	1153.3	1176.6	1183.6	1159.1	1126.4	1075.0	1036.4	985.0	875.2	798.0	758.3
40°	1131.1	1148.6	1159.1	1120.5	1087.8	1037.6	993.2	903.2	803.9	777.0	720.9
42.5°	1107.7	1124.0	1128.7	1086.6	1036.4	988.5	924.2	810.9	781.7	742.0	591.2
45°	1049.3	1069.1	1057.4	1016.5	979.2	928.9	833.1	784.0	752.5	587.7	363.4
47.5°	787.5	809.7	841.3	853.0	865.8	829.6	777.0	759.5	618.1	356.4	113.3
50°	696.4	692.9	692.9	698.7	709.2	720.9	736.1	640.3	371.6	111.0	0.0
52.5°	283.9	298.0	366.9	428.8	500.1	571.4	593.6	392.6	144.9	2.3	0.0
55°	35.1	35.1	49.1	84.1	139.0	224.3	252.4	126.2	10.5	0.0	0.0
57.5°	0.0	0.0	0.0	1.2	9.3	25.7	17.5	4.7	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°	307.3	307.3	307.3	307.3	307.3	307.3	307.3	307.3
2.5°	401.9	387.9	368.1	309.6	259.4	215.0	189.3	176.4
5°	514.1	480.2	434.7	308.5	210.3	140.2	105.2	92.3
7.5°	621.6	583.1	505.9	303.8	161.2	81.8	45.6	36.2
10°	668.3	640.3	571.4	296.8	116.8	38.6	38.6	39.7
12.5°	687.0	666.0	609.9	286.3	77.1	37.4	39.7	37.4
15°	699.9	680.0	628.6	274.6	44.4	38.6	31.5	28.0
17.5°	706.9	683.5	634.5	252.4	29.2	32.7	19.9	16.4
20°	729.1	691.7	639.1	226.7	28.0	22.2	10.5	8.2
22.5°	766.5	708.1	640.3	195.1	22.2	12.9	3.5	0.0
25°	800.4	730.3	643.8	154.2	7.0	3.5	0.0	0.0
27.5°	816.7	737.3	642.6	108.7	0.0	0.0	0.0	0.0
30°	796.9	719.8	632.1	67.8	0.0	0.0	0.0	0.0
32.5°	750.1	706.9	599.4	29.2	0.0	0.0	0.0	0.0
35°	734.9	678.9	524.6	3.5	0.0	0.0	0.0	0.0
37.5°	701.1	598.2	385.6	0.0	0.0	0.0	0.0	0.0
40°	602.9	432.3	183.4	0.0	0.0	0.0	0.0	0.0
42.5°	398.4	184.6	10.5	0.0	0.0	0.0	0.0	0.0
45°	140.2	11.7	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)