

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: P1306157

Luminaire Tested: P3SQAS17R709024DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306157
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: P3SQAS17R709024DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R70 optic, 2400K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

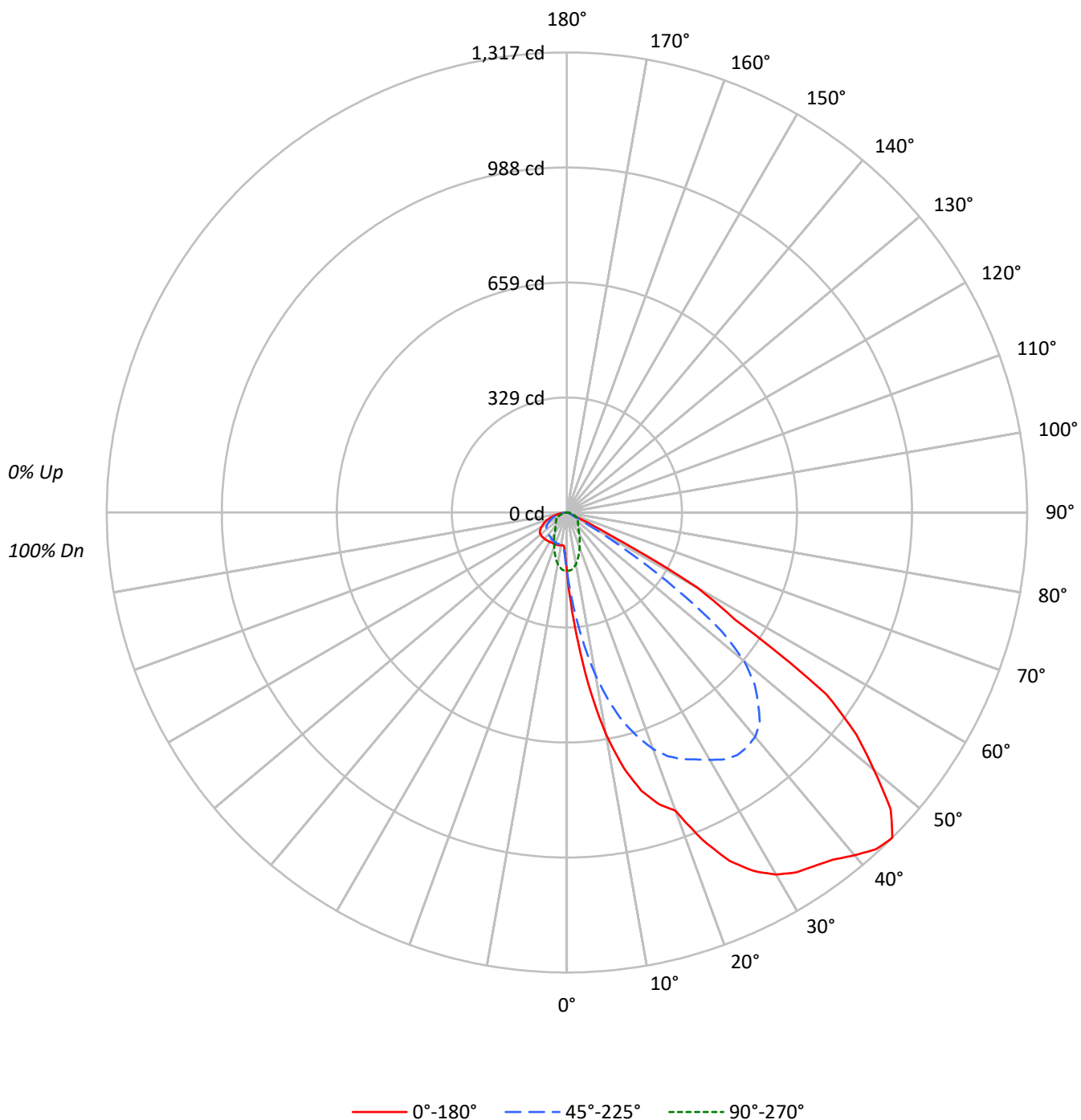
Lumens per Lamp: N/A
Luminaire Lumens: 1138.0 lumens
Efficiency: N/A
Efficacy: 53.7 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			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	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°	28555	28555	28555	28555	28555
5°	64968	52020	28266	17859	16683
10°	112587	82596	26214	16281	16683
15°	146971	110331	22876	16600	17206
20°	166469	131922	19555	16861	17888
25°	209067	148012	16399	17045	18338
30°	237982	162573	14000	17381	19409
35°	259716	178309	12173	17661	20520
40°	287928	188377	11241	18368	22212
45°	320768	188588	11058	19363	24064
50°	307236	177343	10958	20390	26150
55°	272036	114880	11260	21469	28285
60°	149007	24628	11332	21907	29347
65°	10636	6031	11084	21761	29626
70°	5136	5740	10272	20595	28601
75°	4525	6055	9848	19630	26417
80°	4463	5653	9025	18051	24795
85°	4545	6719	8892	15611	22527

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 320768 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.6	1.9
10°-20°	92.5	8.1
20°-30°	177.4	15.6
30°-40°	250.9	22.0
40°-50°	283.8	24.9
50°-60°	224.8	19.8
60°-70°	60.6	5.3
70°-80°	20.1	1.8
80°-90°	6.2	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°	291.5	25.6
0°-40°	542.5	47.7
0°-60°	1051.1	92.4
0°-90°	1138.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1138.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	166	166	166	166	166	
5°	376	301	164	103	96	44
15°	824	619	128	93	96	232
25°	1100	779	86	90	96	504
35°	1235	848	58	84	98	778
45°	1317	774	45	80	99	985
55°	906	383	38	72	94	735
65°	26	15	27	53	73	94
75°	7	9	15	30	40	7
85°	2	3	4	8	11	2
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°	165.8	165.8	165.8	165.8	165.8	165.8	165.8	165.8	165.8	165.8	165.8
2.5°	257.7	257.7	256.6	252.1	249.8	244.1	239.6	227.1	196.4	166.9	143.1
5°	375.8	381.5	373.5	372.4	365.6	355.4	348.6	300.9	227.1	163.5	122.6
7.5°	515.5	517.7	515.5	504.1	493.9	476.9	461.0	386.0	257.7	157.8	107.9
10°	643.8	640.4	633.5	625.6	610.8	592.7	565.4	472.3	287.3	149.9	98.8
12.5°	748.2	747.1	739.1	731.2	713.0	689.2	661.9	550.7	312.2	139.7	94.2
15°	824.3	824.3	816.3	807.3	790.2	770.9	740.3	618.8	332.7	128.3	89.7
17.5°	875.4	873.1	867.4	860.6	847.0	827.7	803.9	673.3	346.3	116.9	88.6
20°	908.3	907.2	902.6	892.4	881.1	866.3	844.7	719.8	352.0	106.7	87.4
22.5°	1013.9	1004.8	987.8	966.2	939.0	903.8	874.2	755.0	349.7	95.4	85.2
25°	1100.2	1096.8	1078.6	1052.5	1016.2	970.8	921.9	778.9	338.3	86.3	82.9
27.5°	1157.0	1151.3	1134.2	1105.9	1067.3	1023.0	977.6	797.0	322.4	78.3	79.5
30°	1196.7	1193.3	1176.3	1144.5	1104.7	1055.9	1009.4	817.5	300.9	70.4	76.1
32.5°	1221.7	1218.3	1201.2	1172.9	1134.2	1083.2	1029.8	837.9	274.8	63.6	72.7
35°	1235.3	1231.9	1212.6	1187.6	1151.3	1101.3	1044.6	848.1	243.0	57.9	69.3
37.5°	1252.3	1245.5	1219.4	1188.7	1152.4	1105.9	1049.1	847.0	211.2	53.4	67.0
40°	1280.7	1262.5	1225.1	1184.2	1146.7	1100.2	1045.7	837.9	176.0	50.0	64.7
42.5°	1308.0	1281.8	1226.2	1177.4	1135.4	1090.0	1033.2	817.5	137.4	47.7	63.6
45°	1317.0	1278.4	1210.3	1161.5	1121.8	1075.2	1016.2	774.3	93.1	45.4	61.3
47.5°	1256.9	1228.5	1171.7	1135.4	1097.9	1052.5	991.2	728.9	53.4	43.1	59.0
50°	1146.7	1128.6	1096.8	1074.1	1053.6	1021.8	961.7	661.9	31.8	40.9	56.8
52.5°	1044.6	1038.9	1016.2	998.0	986.6	971.9	917.4	558.6	26.1	39.7	54.5
55°	906.0	887.9	882.2	875.4	899.2	898.1	824.3	382.6	25.0	37.5	52.2
57.5°	568.8	576.8	606.3	660.8	725.5	763.0	760.7	204.4	23.8	35.2	48.8
60°	432.6	431.4	440.5	463.2	510.9	564.3	614.2	71.5	22.7	32.9	46.6
62.5°	129.4	132.8	160.1	235.0	281.6	347.4	316.8	17.0	21.6	29.5	42.0
65°	26.1	27.2	27.2	30.7	37.5	56.8	69.3	14.8	20.4	27.2	38.6
67.5°	11.4	11.4	11.4	12.5	12.5	14.8	12.5	13.6	18.2	23.8	34.1
70°	10.2	10.2	10.2	10.2	10.2	10.2	11.4	11.4	15.9	20.4	29.5
72.5°	7.9	7.9	7.9	9.1	9.1	9.1	9.1	10.2	13.6	17.0	25.0
75°	6.8	6.8	6.8	6.8	7.9	7.9	7.9	9.1	11.4	14.8	20.4
77.5°	5.7	5.7	5.7	5.7	5.7	6.8	6.8	6.8	9.1	11.4	17.0
80°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.7	6.8	9.1	12.5
82.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.5	5.7	6.8	9.1
85°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.4	3.4	4.5	5.7
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.3	2.3	2.3	3.4
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°	165.8	165.8	165.8
2.5°	126.0	119.2	115.8
5°	103.3	97.6	96.5
7.5°	95.4	94.2	94.2
10°	93.1	94.2	95.4
12.5°	93.1	95.4	96.5
15°	93.1	95.4	96.5
17.5°	93.1	95.4	96.5
20°	92.0	95.4	97.6
22.5°	90.8	95.4	96.5
25°	89.7	95.4	96.5
27.5°	88.6	94.2	96.5
30°	87.4	94.2	97.6
32.5°	85.2	94.2	97.6
35°	84.0	94.2	97.6
37.5°	82.9	94.2	98.8
40°	81.7	94.2	98.8
42.5°	80.6	94.2	98.8
45°	79.5	93.1	98.8
47.5°	77.2	93.1	98.8
50°	76.1	92.0	97.6
52.5°	73.8	90.8	97.6
55°	71.5	88.6	94.2
57.5°	68.1	85.2	89.7
60°	63.6	80.6	85.2
62.5°	57.9	74.9	78.3
65°	53.4	68.1	72.7
67.5°	46.6	60.2	64.7
70°	40.9	52.2	56.8
72.5°	35.2	44.3	48.8
75°	29.5	36.3	39.7
77.5°	22.7	29.5	31.8
80°	18.2	22.7	25.0
82.5°	12.5	15.9	17.0
85°	7.9	10.2	11.4
87.5°	3.4	4.5	4.5
90°	0.0	0.0	0.0

(END OF REPORT)