

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: P1317346

Luminaire Tested: P3SQAS17R709830DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317346
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: P3SQAS17R709830DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 98CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

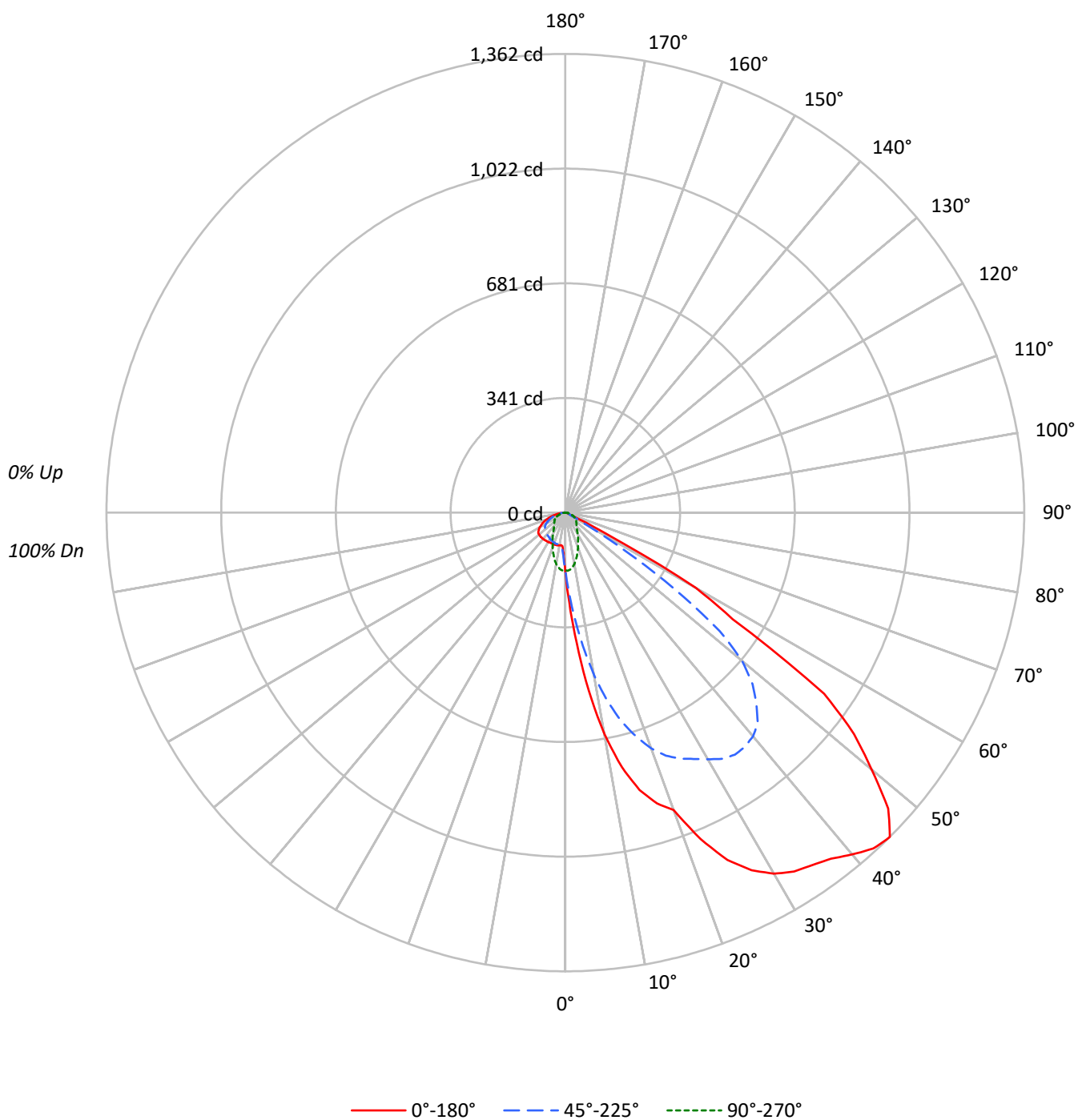
Lumens per Lamp: N/A
Luminaire Lumens: 1177.0 lumens
Efficiency: N/A
Efficacy: 57.7 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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
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°	29519	29519	29519	29519	29519
5°	67199	53800	29234	18481	17253
10°	116435	85429	27106	16841	17243
15°	151999	114111	23660	17170	17794
20°	172169	136449	20234	17430	18511
25°	216231	153085	16950	17634	18965
30°	246136	168141	14477	17977	20085
35°	268609	184427	12594	18270	21235
40°	297797	194830	11623	18997	22977
45°	331777	195067	11447	20021	24892
50°	317766	183425	11333	21086	27061
55°	281375	118813	11650	22219	29275
60°	154105	25489	11746	22664	30346
65°	11003	6235	11492	22495	30645
70°	5338	5891	10625	21300	29558
75°	4658	6255	10181	20295	27349
80°	4661	5852	9323	18646	25588
85°	4545	6916	9287	16203	23120

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 331777 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.4	1.9
10°-20°	95.7	8.1
20°-30°	183.5	15.6
30°-40°	259.5	22.1
40°-50°	293.6	24.9
50°-60°	232.5	19.8
60°-70°	62.7	5.3
70°-80°	20.8	1.8
80°-90°	6.4	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°	301.5	25.6
0°-40°	561.1	47.7
0°-60°	1087.1	92.4
0°-90°	1177.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1177.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	171	171	171	171	171	
5°	389	311	169	107	100	46
15°	852	640	133	96	100	240
25°	1138	806	89	93	100	521
35°	1278	877	60	87	101	805
45°	1362	801	47	82	102	1019
55°	937	396	39	74	98	760
65°	27	15	28	55	75	97
75°	7	9	15	30	41	8
85°	2	4	5	8	12	3
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°	171.4	171.4	171.4	171.4	171.4	171.4	171.4	171.4	171.4	171.4	171.4
2.5°	266.6	266.6	265.4	260.7	258.3	252.5	247.8	234.9	203.2	172.6	148.0
5°	388.7	394.6	386.3	385.2	378.1	367.6	360.5	311.2	234.9	169.1	126.8
7.5°	533.1	535.5	533.1	521.4	510.8	493.2	476.8	399.3	266.6	163.2	111.6
10°	665.8	662.3	655.3	647.0	631.8	613.0	584.8	488.5	297.1	155.0	102.2
12.5°	773.9	772.7	764.5	756.2	737.5	712.8	684.6	569.5	322.9	144.4	97.5
15°	852.5	852.5	844.3	834.9	817.3	797.3	765.6	640.0	344.1	132.7	92.8
17.5°	905.4	903.0	897.2	890.1	876.0	856.1	831.4	696.4	358.2	121.0	91.6
20°	939.4	938.3	933.6	923.0	911.3	896.0	873.7	744.5	364.0	110.4	90.4
22.5°	1048.6	1039.3	1021.6	999.3	971.1	934.7	904.2	780.9	361.7	98.6	88.1
25°	1137.9	1134.4	1115.6	1088.6	1051.0	1004.0	953.5	805.6	349.9	89.2	85.7
27.5°	1196.6	1190.7	1173.1	1143.8	1103.8	1058.0	1011.1	824.4	333.5	81.0	82.2
30°	1237.7	1234.2	1216.6	1183.7	1142.6	1092.1	1043.9	845.5	311.2	72.8	78.7
32.5°	1263.5	1260.0	1242.4	1213.0	1173.1	1120.3	1065.1	866.6	284.2	65.8	75.2
35°	1277.6	1274.1	1254.1	1228.3	1190.7	1139.1	1080.4	877.2	251.3	59.9	71.6
37.5°	1295.2	1288.2	1261.2	1229.5	1191.9	1143.8	1085.0	876.0	218.4	55.2	69.3
40°	1324.6	1305.8	1267.1	1224.8	1186.0	1137.9	1081.5	866.6	182.0	51.7	66.9
42.5°	1352.8	1325.8	1268.2	1217.7	1174.3	1127.3	1068.6	845.5	142.1	49.3	65.8
45°	1362.2	1322.3	1251.8	1201.3	1160.2	1112.1	1051.0	800.9	96.3	47.0	63.4
47.5°	1299.9	1270.6	1211.9	1174.3	1135.5	1088.6	1025.2	753.9	55.2	44.6	61.1
50°	1186.0	1167.2	1134.4	1110.9	1089.7	1056.9	994.6	684.6	32.9	42.3	58.7
52.5°	1080.4	1074.5	1051.0	1032.2	1020.5	1005.2	948.8	577.8	27.0	41.1	56.4
55°	937.1	918.3	912.4	905.4	930.0	928.9	852.5	395.7	25.8	38.8	54.0
57.5°	588.3	596.5	627.1	683.4	750.4	789.1	786.8	211.4	24.7	36.4	50.5
60°	447.4	446.2	455.6	479.1	528.4	583.6	635.3	74.0	23.5	34.1	48.1
62.5°	133.9	137.4	165.6	243.1	291.2	359.3	327.6	17.6	22.3	30.5	43.4
65°	27.0	28.2	28.2	31.7	38.8	58.7	71.6	15.3	21.1	28.2	39.9
67.5°	11.7	11.7	11.7	12.9	12.9	15.3	12.9	14.1	18.8	24.7	35.2
70°	10.6	10.6	10.6	10.6	10.6	10.6	11.7	11.7	16.4	21.1	30.5
72.5°	8.2	8.2	8.2	9.4	9.4	9.4	9.4	10.6	14.1	17.6	25.8
75°	7.0	7.0	7.0	7.0	8.2	8.2	8.2	9.4	11.7	15.3	21.1
77.5°	5.9	5.9	5.9	5.9	5.9	7.0	7.0	7.0	9.4	11.7	17.6
80°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	5.9	7.0	9.4	12.9
82.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.7	5.9	7.0	9.4
85°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.5	3.5	4.7	5.9
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.3	2.3	2.3	3.5
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°	171.4	171.4	171.4
2.5°	130.3	123.3	119.8
5°	106.9	101.0	99.8
7.5°	98.6	97.5	97.5
10°	96.3	97.5	98.6
12.5°	96.3	98.6	99.8
15°	96.3	98.6	99.8
17.5°	96.3	98.6	99.8
20°	95.1	98.6	101.0
22.5°	93.9	98.6	99.8
25°	92.8	98.6	99.8
27.5°	91.6	97.5	99.8
30°	90.4	97.5	101.0
32.5°	88.1	97.5	101.0
35°	86.9	97.5	101.0
37.5°	85.7	97.5	102.2
40°	84.5	97.5	102.2
42.5°	83.4	97.5	102.2
45°	82.2	96.3	102.2
47.5°	79.9	96.3	102.2
50°	78.7	95.1	101.0
52.5°	76.3	93.9	101.0
55°	74.0	91.6	97.5
57.5°	70.5	88.1	92.8
60°	65.8	83.4	88.1
62.5°	59.9	77.5	81.0
65°	55.2	70.5	75.2
67.5°	48.1	62.2	66.9
70°	42.3	54.0	58.7
72.5°	36.4	45.8	50.5
75°	30.5	37.6	41.1
77.5°	23.5	30.5	32.9
80°	18.8	23.5	25.8
82.5°	12.9	16.4	17.6
85°	8.2	10.6	11.7
87.5°	3.5	4.7	4.7
90°	0.0	0.0	0.0

(END OF REPORT)