

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: P1310482

Luminaire Tested: P3SQAS17R709040DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310482
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: P3SQAS17R709040DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

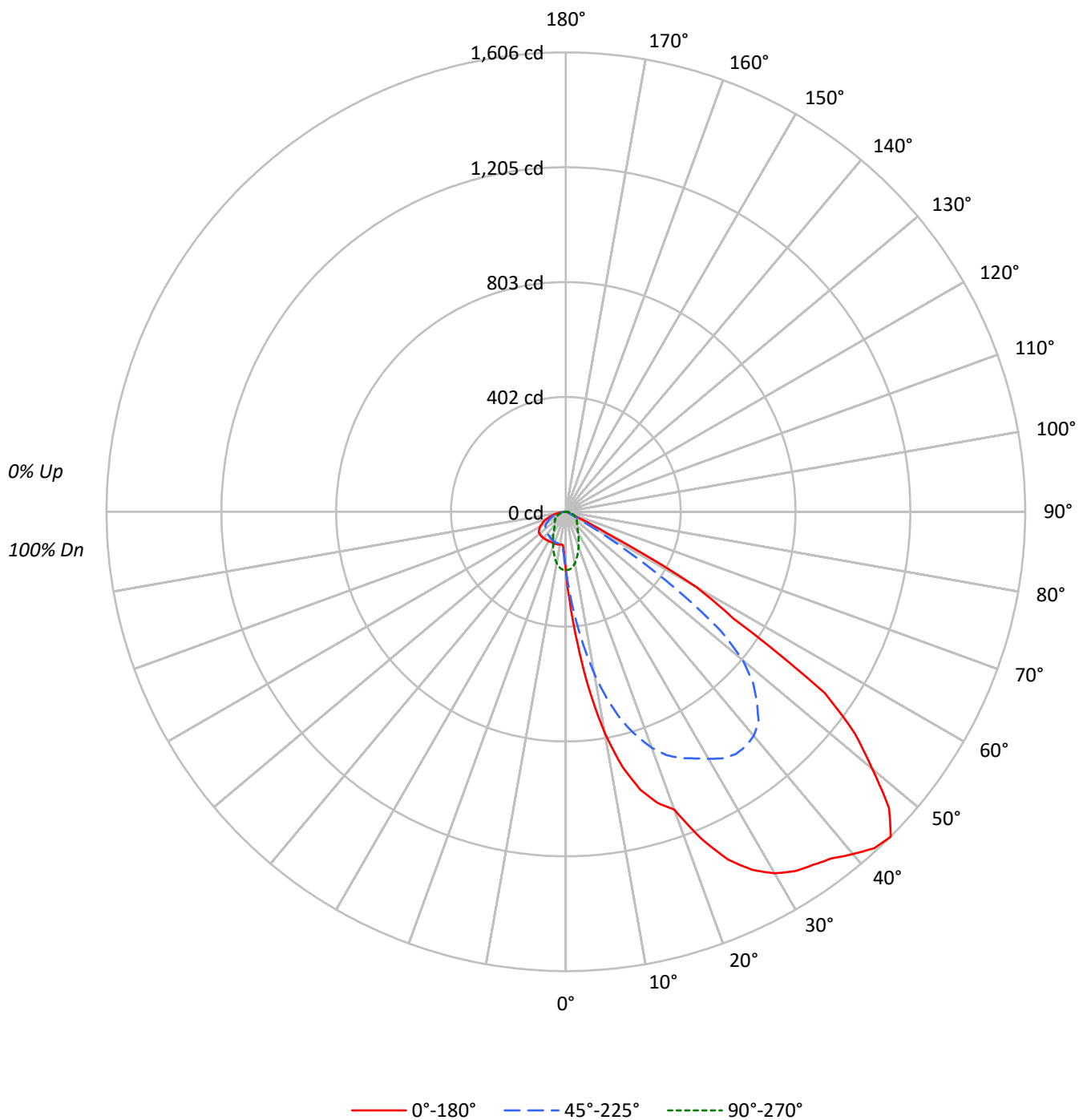
Lumens per Lamp: N/A
Luminaire Lumens: 1388.0 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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°	34823	34823	34823	34823	34823
5°	79248	63447	34472	21783	20348
10°	137315	100748	31968	19866	20338
15°	179261	134561	27904	20255	20986
20°	203033	160916	23862	20564	21828
25°	254997	180525	19991	20789	22366
30°	290264	198289	17083	21199	23685
35°	316776	217498	14843	21550	25040
40°	351192	229767	13692	22415	27091
45°	391254	230018	13493	23601	29349
50°	374755	216301	13370	24864	31911
55°	331818	140132	13722	26183	34500
60°	181729	30036	13847	26695	35788
65°	13000	7335	13529	26529	36106
70°	6294	6949	12538	25127	34845
75°	5523	7386	11978	23955	32273
80°	5455	6843	11009	22018	30250
85°	5533	8299	10868	19168	27269

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 391254 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.4	1.9
10°-20°	112.8	8.1
20°-30°	216.4	15.6
30°-40°	306.0	22.0
40°-50°	346.2	24.9
50°-60°	274.2	19.8
60°-70°	73.9	5.3
70°-80°	24.5	1.8
80°-90°	7.5	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°	355.6	25.6
0°-40°	661.6	47.7
0°-60°	1282.0	92.4
0°-90°	1388.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1388.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	202	202	202	202	202	
5°	458	367	199	126	118	54
15°	1005	755	156	114	118	283
25°	1342	950	105	109	118	615
35°	1507	1034	71	102	119	949
45°	1606	944	55	97	120	1202
55°	1105	467	46	87	115	897
65°	32	18	33	65	89	115
75°	8	11	18	36	48	9
85°	3	4	6	10	14	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°	202.2	202.2	202.2	202.2	202.2	202.2	202.2	202.2	202.2	202.2	202.2
2.5°	314.4	314.4	313.0	307.4	304.7	297.7	292.2	277.0	239.6	203.6	174.5
5°	458.4	465.3	455.6	454.2	445.9	433.4	425.1	367.0	277.0	199.4	149.6
7.5°	628.7	631.5	628.7	614.9	602.4	581.6	562.2	470.8	314.4	192.5	131.6
10°	785.2	781.0	772.7	763.0	745.0	722.9	689.6	576.1	350.4	182.8	120.5
12.5°	912.6	911.2	901.5	891.8	869.7	840.6	807.3	671.6	380.8	170.3	114.9
15°	1005.4	1005.4	995.7	984.6	963.8	940.3	902.9	754.7	405.7	156.5	109.4
17.5°	1067.7	1064.9	1058.0	1049.7	1033.1	1009.5	980.4	821.2	422.4	142.6	108.0
20°	1107.8	1106.5	1100.9	1088.5	1074.6	1056.6	1030.3	878.0	429.3	130.2	106.6
22.5°	1236.6	1225.6	1204.8	1178.5	1145.2	1102.3	1066.3	920.9	426.5	116.3	103.9
25°	1341.9	1337.7	1315.6	1283.7	1239.4	1184.0	1124.5	950.0	412.7	105.2	101.1
27.5°	1411.1	1404.2	1383.4	1348.8	1301.7	1247.7	1192.3	972.1	393.3	95.6	96.9
30°	1459.6	1455.4	1434.7	1395.9	1347.4	1287.9	1231.1	997.1	367.0	85.9	92.8
32.5°	1490.1	1485.9	1465.1	1430.5	1383.4	1321.1	1256.0	1022.0	335.1	77.5	88.6
35°	1506.7	1502.5	1479.0	1448.5	1404.2	1343.3	1274.0	1034.5	296.3	70.6	84.5
37.5°	1527.4	1519.1	1487.3	1449.9	1405.6	1348.8	1279.6	1033.1	257.6	65.1	81.7
40°	1562.1	1539.9	1494.2	1444.4	1398.7	1341.9	1275.4	1022.0	214.6	60.9	78.9
42.5°	1595.3	1563.5	1495.6	1436.0	1384.8	1329.4	1260.2	997.1	167.6	58.2	77.5
45°	1606.4	1559.3	1476.2	1416.7	1368.2	1311.4	1239.4	944.4	113.6	55.4	74.8
47.5°	1533.0	1498.4	1429.1	1384.8	1339.1	1283.7	1208.9	889.0	65.1	52.6	72.0
50°	1398.7	1376.5	1337.7	1310.0	1285.1	1246.3	1172.9	807.3	38.8	49.9	69.2
52.5°	1274.0	1267.1	1239.4	1217.2	1203.4	1185.4	1118.9	681.3	31.9	48.5	66.5
55°	1105.1	1082.9	1076.0	1067.7	1096.8	1095.4	1005.4	466.7	30.5	45.7	63.7
57.5°	693.8	703.5	739.5	806.0	884.9	930.6	927.8	249.3	29.1	42.9	59.5
60°	527.6	526.2	537.3	565.0	623.2	688.3	749.2	87.2	27.7	40.2	56.8
62.5°	157.9	162.0	195.3	286.7	343.4	423.8	386.4	20.8	26.3	36.0	51.2
65°	31.9	33.2	33.2	37.4	45.7	69.2	84.5	18.0	24.9	33.2	47.1
67.5°	13.8	13.8	13.8	15.2	15.2	18.0	15.2	16.6	22.2	29.1	41.5
70°	12.5	12.5	12.5	12.5	12.5	12.5	13.8	13.8	19.4	24.9	36.0
72.5°	9.7	9.7	9.7	11.1	11.1	11.1	11.1	12.5	16.6	20.8	30.5
75°	8.3	8.3	8.3	8.3	9.7	9.7	9.7	11.1	13.8	18.0	24.9
77.5°	6.9	6.9	6.9	6.9	6.9	8.3	8.3	8.3	11.1	13.8	20.8
80°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	6.9	8.3	11.1	15.2
82.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.5	6.9	8.3	11.1
85°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.2	4.2	5.5	6.9
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8	4.2
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):

	135°	157.5°	180°
0°	202.2	202.2	202.2
2.5°	153.7	145.4	141.3
5°	126.0	119.1	117.7
7.5°	116.3	114.9	114.9
10°	113.6	114.9	116.3
12.5°	113.6	116.3	117.7
15°	113.6	116.3	117.7
17.5°	113.6	116.3	117.7
20°	112.2	116.3	119.1
22.5°	110.8	116.3	117.7
25°	109.4	116.3	117.7
27.5°	108.0	114.9	117.7
30°	106.6	114.9	119.1
32.5°	103.9	114.9	119.1
35°	102.5	114.9	119.1
37.5°	101.1	114.9	120.5
40°	99.7	114.9	120.5
42.5°	98.3	114.9	120.5
45°	96.9	113.6	120.5
47.5°	94.2	113.6	120.5
50°	92.8	112.2	119.1
52.5°	90.0	110.8	119.1
55°	87.2	108.0	114.9
57.5°	83.1	103.9	109.4
60°	77.5	98.3	103.9
62.5°	70.6	91.4	95.6
65°	65.1	83.1	88.6
67.5°	56.8	73.4	78.9
70°	49.9	63.7	69.2
72.5°	42.9	54.0	59.5
75°	36.0	44.3	48.5
77.5°	27.7	36.0	38.8
80°	22.2	27.7	30.5
82.5°	15.2	19.4	20.8
85°	9.7	12.5	13.8
87.5°	4.2	5.5	5.5
90°	0.0	0.0	0.0

(END OF REPORT)