

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: P1315551

Luminaire Tested: P3SQAS17R509740DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315551
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R509740DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

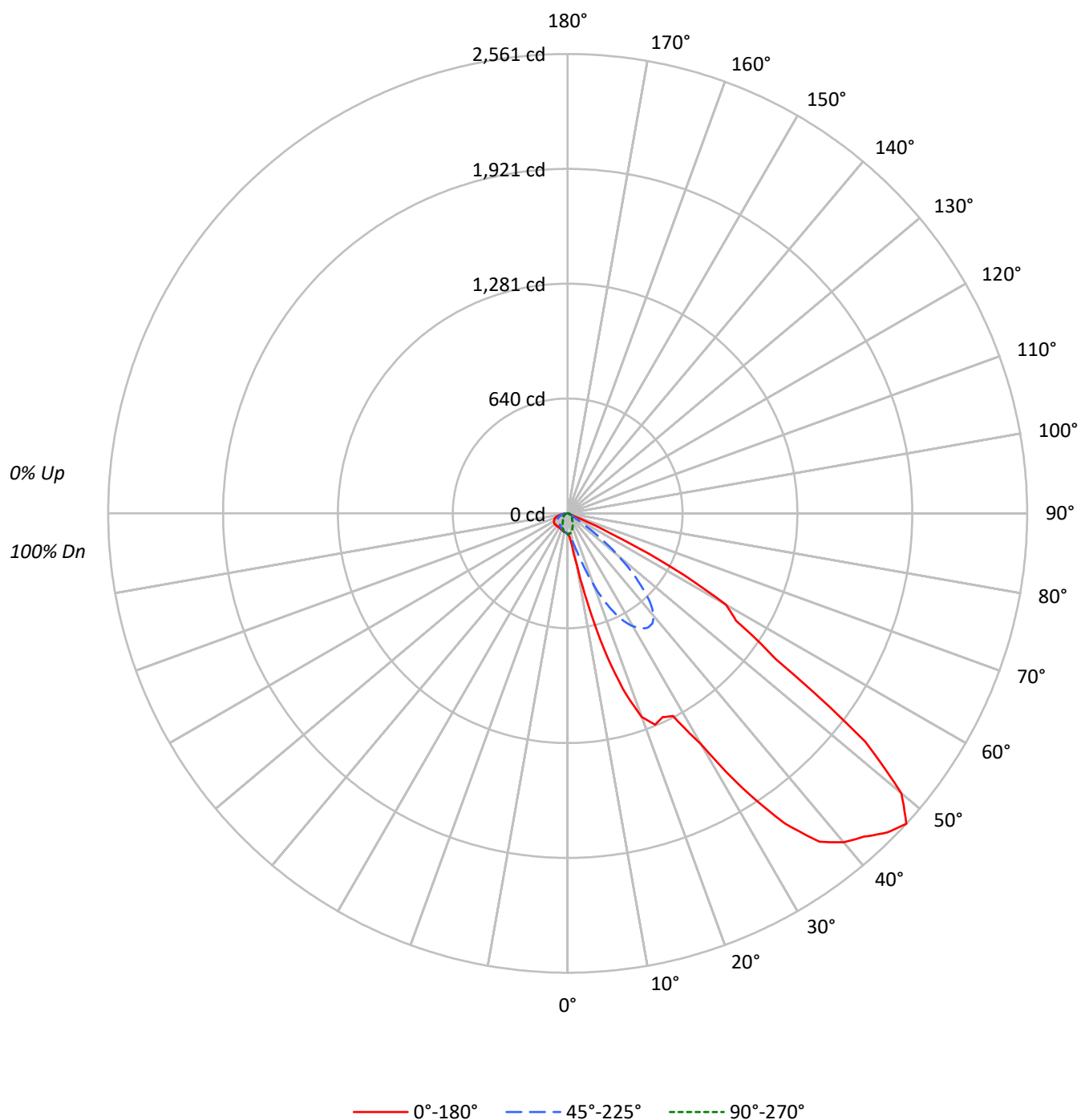
Lumens per Lamp: N/A
Luminaire Lumens: 1444.0 lumens
Efficiency: N/A
Efficacy: 68.1 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1315551

CATALOG NUMBER: P3SQAS17R509740DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1315551

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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	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61		
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51		
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43		
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37		
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31		
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27		
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	23		
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	19754	19754	19754	19754	19754
5°	23494	21990	19622	18758	18550
10°	50610	27264	18765	18100	18327
15°	140107	44699	16903	17348	18008
20°	221507	78405	14625	16678	17594
25°	238198	115194	12561	16114	17767
30°	295653	144595	10918	15869	18355
35°	443680	163634	9440	16000	19406
40°	538108	168233	8408	16547	20459
45°	613015	144285	8208	17609	22481
50°	650643	99590	8359	19050	25052
55°	425049	40085	8227	20598	27714
60°	350542	6889	8163	22354	30518
65°	105709	3545	7621	23880	33538
70°	4381	3777	7553	24472	36406
75°	4126	4126	7453	24887	39858
80°	3670	3670	7438	24696	40862
85°	2371	4940	9880	24700	39521

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 652753 cd/sqm

TEST NUMBER: P1315551

CATALOG NUMBER: P3SQAS17R509740DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.0	0.8
10°-20°	68.4	4.7
20°-30°	175.8	12.2
30°-40°	315.7	21.9
40°-50°	421.7	29.2
50°-60°	321.2	22.2
60°-70°	97.5	6.8
70°-80°	23.3	1.6
80°-90°	8.4	0.6
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°	256.1	17.7
0°-40°	571.8	39.6
0°-60°	1314.8	91.1
0°-90°	1444.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1444.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	115	115	115	115	115	
5°	136	127	114	108	107	17
15°	786	251	95	97	101	231
25°	1254	606	66	85	94	598
35°	2110	778	45	76	92	1296
45°	2517	592	34	72	92	1924
55°	1416	134	27	69	92	1408
65°	259	9	19	59	82	359
75°	6	6	11	37	60	7
85°	1	2	5	12	20	2
90°	0	0	0	0	0	

TEST NUMBER: P1315551

CATALOG NUMBER: P3SQAS17R509740DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	114.7	114.7	114.7	114.7	114.7	114.7	114.7	114.7	114.7	114.7	114.7
2.5°	122.2	122.2	122.2	122.2	122.2	122.2	121.0	121.0	121.0	118.5	116.0
5°	135.9	137.2	135.9	135.9	133.5	133.5	131.0	131.0	127.2	119.7	113.5
7.5°	178.4	177.1	175.9	170.9	167.1	158.4	154.7	148.4	137.2	119.7	111.0
10°	289.4	281.9	276.9	265.7	242.0	227.0	207.0	187.1	155.9	119.7	107.3
12.5°	502.6	501.4	486.4	449.0	415.3	369.2	320.5	271.9	192.1	117.2	102.3
15°	785.8	774.5	753.3	709.7	649.8	577.5	490.2	404.1	250.7	113.5	94.8
17.5°	1027.7	1014.0	997.8	954.1	885.5	794.5	689.7	571.2	330.5	108.5	87.3
20°	1208.6	1199.8	1186.1	1151.2	1086.3	1004.0	886.8	743.4	427.8	102.3	79.8
22.5°	1274.7	1273.4	1275.9	1263.5	1231.0	1166.2	1053.9	904.2	523.8	94.8	72.3
25°	1253.5	1252.2	1268.4	1284.7	1292.1	1265.9	1179.9	1034.0	606.2	88.6	66.1
27.5°	1273.4	1269.7	1262.2	1264.7	1285.9	1300.9	1261.0	1133.7	677.3	79.8	59.9
30°	1486.7	1465.5	1431.8	1374.5	1332.1	1328.3	1310.8	1212.3	727.1	71.1	54.9
32.5°	1819.7	1793.5	1732.4	1626.4	1525.4	1448.0	1393.2	1278.4	762.1	62.4	48.6
35°	2110.3	2091.6	2020.5	1915.8	1771.1	1626.4	1526.6	1375.7	778.3	54.9	44.9
37.5°	2307.4	2299.9	2230.1	2117.8	1970.6	1799.8	1667.6	1475.5	774.5	46.1	41.2
40°	2393.5	2371.0	2312.4	2217.6	2069.2	1915.8	1776.1	1539.1	748.3	37.4	37.4
42.5°	2444.6	2419.6	2356.0	2266.2	2120.3	1956.9	1788.5	1511.7	686.0	29.9	36.2
45°	2516.9	2490.7	2407.2	2311.1	2164.0	1974.4	1739.9	1414.4	592.4	22.5	33.7
47.5°	2560.6	2543.1	2480.8	2384.7	2206.4	1949.4	1627.6	1323.3	488.9	17.5	32.4
50°	2428.4	2410.9	2364.8	2298.7	2178.9	1865.9	1529.1	1176.1	371.7	13.7	31.2
52.5°	2090.4	2105.3	2114.1	2132.8	2045.5	1678.8	1381.9	1058.9	250.7	11.2	28.7
55°	1415.6	1438.1	1463.0	1537.8	1640.1	1494.2	1227.3	915.5	133.5	11.2	27.4
57.5°	1112.5	1105.1	1097.6	1092.6	1172.4	1232.3	1078.9	732.1	57.4	11.2	24.9
60°	1017.7	995.3	980.3	984.1	1024.0	1000.3	854.4	477.7	20.0	11.2	23.7
62.5°	667.3	684.7	718.4	775.8	748.3	642.3	496.4	189.6	10.0	11.2	21.2
65°	259.4	250.7	259.4	275.6	238.2	177.1	111.0	33.7	8.7	10.0	18.7
67.5°	34.9	31.2	23.7	15.0	13.7	12.5	10.0	8.7	8.7	10.0	17.5
70°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	7.5	7.5	8.7	15.0
72.5°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	8.7	12.5
75°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	7.5	11.2
77.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	6.2	8.7
80°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.0	7.5
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.7	3.7	5.0	6.2
85°	1.2	2.5	1.2	2.5	2.5	2.5	2.5	2.5	2.5	3.7	5.0
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	3.7	3.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1315551

CATALOG NUMBER: P3SQAS17R509740DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	114.7	114.7	114.7	114.7
2.5°	113.5	111.0	111.0	111.0
5°	111.0	108.5	108.5	107.3
7.5°	107.3	106.0	106.0	106.0
10°	104.8	103.5	104.8	104.8
12.5°	99.8	101.0	102.3	102.3
15°	94.8	97.3	99.8	101.0
17.5°	89.8	94.8	97.3	98.5
20°	84.8	91.0	94.8	96.0
22.5°	81.1	87.3	92.3	94.8
25°	76.1	84.8	91.0	93.5
27.5°	71.1	81.1	88.6	92.3
30°	67.4	79.8	88.6	92.3
32.5°	63.6	77.3	87.3	91.0
35°	61.1	76.1	87.3	92.3
37.5°	58.6	74.8	87.3	91.0
40°	57.4	73.6	87.3	91.0
42.5°	56.1	73.6	87.3	92.3
45°	53.6	72.3	87.3	92.3
47.5°	52.4	72.3	87.3	92.3
50°	51.1	71.1	87.3	93.5
52.5°	49.9	69.8	87.3	93.5
55°	47.4	68.6	86.1	92.3
57.5°	46.1	67.4	84.8	89.8
60°	43.7	64.9	82.3	88.6
62.5°	41.2	62.4	79.8	84.8
65°	37.4	58.6	76.1	82.3
67.5°	33.7	53.6	72.3	78.6
70°	29.9	48.6	67.4	72.3
72.5°	26.2	43.7	62.4	66.1
75°	22.5	37.4	54.9	59.9
77.5°	18.7	32.4	46.1	49.9
80°	13.7	24.9	37.4	41.2
82.5°	11.2	18.7	27.4	29.9
85°	7.5	12.5	17.5	20.0
87.5°	3.7	6.2	8.7	10.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)