

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: P1314433

Luminaire Tested: P3SQAS13R509735DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314433
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: P3SQAS13R509735DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

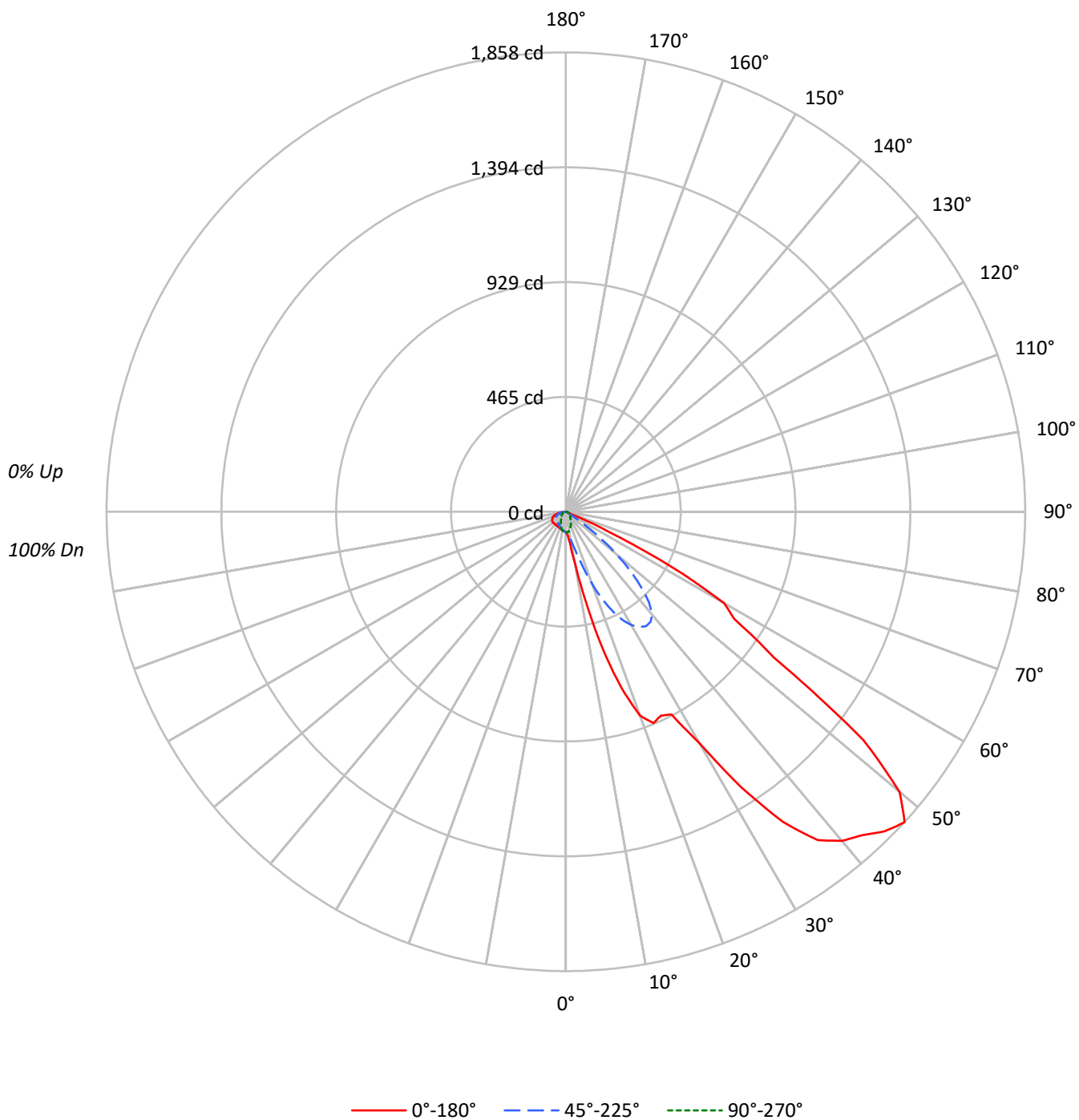
Lumens per Lamp: N/A
Luminaire Lumens: 1048.0 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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: P1314433

CATALOG NUMBER: P3SQAS13R509735DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1314433

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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°	14346	14346	14346	14346	14346
5°	17063	15957	14245	13623	13450
10°	36725	19779	13606	13133	13291
15°	101683	32432	12267	12588	13069
20°	160751	56907	10612	12115	12774
25°	172867	83593	9121	11706	12903
30°	214576	104941	7915	11514	13324
35°	322011	118746	6854	11606	14086
40°	390536	122100	6115	12005	14861
45°	444910	104731	5943	12787	16318
50°	472201	72261	6055	13825	18193
55°	308488	29095	5975	14953	20117
60°	254407	4994	5924	16223	22148
65°	76735	2567	5542	17319	24329
70°	3172	2719	5489	17775	26436
75°	2994	2994	5390	18099	28879
80°	2678	2678	5356	17951	29655
85°	1778	3557	7114	17982	28652

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 473747 cd/sqm

TEST NUMBER: P1314433

CATALOG NUMBER: P3SQAS13R509735DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.7	0.8
10°-20°	49.6	4.7
20°-30°	127.6	12.2
30°-40°	229.1	21.9
40°-50°	306.1	29.2
50°-60°	233.1	22.2
60°-70°	70.7	6.8
70°-80°	16.9	1.6
80°-90°	6.1	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°	185.9	17.7
0°-40°	415.0	39.6
0°-60°	954.2	91.1
0°-90°	1048.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1048.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	83	83	83	83	83	
5°	99	92	82	79	78	13
15°	570	182	69	71	73	168
25°	910	440	48	62	68	434
35°	1532	565	33	55	67	940
45°	1827	430	24	52	67	1397
55°	1027	97	20	50	67	1022
65°	188	6	14	42	60	260
75°	4	4	8	27	43	5
85°	1	2	4	9	14	1
90°	0	0	0	0	0	

TEST NUMBER: P1314433

CATALOG NUMBER: P3SQAS13R509735DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
2.5°	88.7	88.7	88.7	88.7	88.7	88.7	87.8	87.8	87.8	86.0	84.2
5°	98.7	99.6	98.7	98.7	96.9	96.9	95.0	95.0	92.3	86.9	82.4
7.5°	129.4	128.5	127.6	124.0	121.3	115.0	112.2	107.7	99.6	86.9	80.6
10°	210.0	204.6	201.0	192.8	175.6	164.7	150.3	135.8	113.1	86.9	77.8
12.5°	364.8	363.9	353.0	325.9	301.4	267.9	232.6	197.3	139.4	85.1	74.2
15°	570.3	562.1	546.7	515.1	471.6	419.1	355.7	293.3	181.9	82.4	68.8
17.5°	745.9	735.9	724.2	692.5	642.7	576.6	500.6	414.6	239.9	78.8	63.4
20°	877.1	870.8	860.8	835.5	788.4	728.7	643.6	539.5	310.5	74.2	57.9
22.5°	925.1	924.2	926.0	917.0	893.4	846.4	764.9	656.3	380.2	68.8	52.5
25°	909.7	908.8	920.6	932.4	937.8	918.8	856.3	750.4	439.9	64.3	48.0
27.5°	924.2	921.5	916.1	917.9	933.3	944.1	915.2	822.8	491.5	57.9	43.4
30°	1079.0	1063.6	1039.2	997.5	966.8	964.0	951.4	879.9	527.7	51.6	39.8
32.5°	1320.7	1301.7	1257.3	1180.4	1107.1	1050.9	1011.1	927.8	553.1	45.3	35.3
35°	1531.6	1518.0	1466.4	1390.4	1285.4	1180.4	1108.0	998.4	564.8	39.8	32.6
37.5°	1674.6	1669.2	1618.5	1537.0	1430.2	1306.2	1210.3	1070.9	562.1	33.5	29.9
40°	1737.1	1720.8	1678.2	1609.4	1501.7	1390.4	1289.0	1117.0	543.1	27.2	27.2
42.5°	1774.2	1756.1	1709.9	1644.7	1538.8	1420.3	1298.1	1097.1	497.9	21.7	26.3
45°	1826.7	1807.7	1747.0	1677.3	1570.5	1432.9	1262.8	1026.5	430.0	16.3	24.4
47.5°	1858.4	1845.7	1800.4	1730.7	1601.3	1414.8	1181.3	960.4	354.8	12.7	23.5
50°	1762.4	1749.7	1716.3	1668.3	1581.4	1354.2	1109.8	853.6	269.7	10.0	22.6
52.5°	1517.1	1528.0	1534.3	1547.9	1484.5	1218.4	1003.0	768.5	181.9	8.1	20.8
55°	1027.4	1043.7	1061.8	1116.1	1190.3	1084.4	890.7	664.4	96.9	8.1	19.9
57.5°	807.4	802.0	796.6	793.0	850.9	894.3	783.0	531.4	41.6	8.1	18.1
60°	738.6	722.3	711.5	714.2	743.2	726.0	620.1	346.7	14.5	8.1	17.2
62.5°	484.3	497.0	521.4	563.0	543.1	466.2	360.3	137.6	7.2	8.1	15.4
65°	188.3	181.9	188.3	200.0	172.9	128.5	80.6	24.4	6.3	7.2	13.6
67.5°	25.3	22.6	17.2	10.9	10.0	9.1	7.2	6.3	6.3	7.2	12.7
70°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	5.4	5.4	6.3	10.9
72.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	6.3	9.1
75°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.4	8.1
77.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.5	6.3
80°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.6	5.4
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.7	2.7	3.6	4.5
85°	0.9	1.8	0.9	1.8	1.8	1.8	1.8	1.8	1.8	2.7	3.6
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	2.7	2.7
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: P1314433

CATALOG NUMBER: P3SQAS13R509735DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	83.3	83.3	83.3	83.3
2.5°	82.4	80.6	80.6	80.6
5°	80.6	78.8	78.8	77.8
7.5°	77.8	76.9	76.9	76.9
10°	76.0	75.1	76.0	76.0
12.5°	72.4	73.3	74.2	74.2
15°	68.8	70.6	72.4	73.3
17.5°	65.2	68.8	70.6	71.5
20°	61.6	66.1	68.8	69.7
22.5°	58.8	63.4	67.0	68.8
25°	55.2	61.6	66.1	67.9
27.5°	51.6	58.8	64.3	67.0
30°	48.9	57.9	64.3	67.0
32.5°	46.2	56.1	63.4	66.1
35°	44.4	55.2	63.4	67.0
37.5°	42.5	54.3	63.4	66.1
40°	41.6	53.4	63.4	66.1
42.5°	40.7	53.4	63.4	67.0
45°	38.9	52.5	63.4	67.0
47.5°	38.0	52.5	63.4	67.0
50°	37.1	51.6	63.4	67.9
52.5°	36.2	50.7	63.4	67.9
55°	34.4	49.8	62.5	67.0
57.5°	33.5	48.9	61.6	65.2
60°	31.7	47.1	59.7	64.3
62.5°	29.9	45.3	57.9	61.6
65°	27.2	42.5	55.2	59.7
67.5°	24.4	38.9	52.5	57.0
70°	21.7	35.3	48.9	52.5
72.5°	19.0	31.7	45.3	48.0
75°	16.3	27.2	39.8	43.4
77.5°	13.6	23.5	33.5	36.2
80°	10.0	18.1	27.2	29.9
82.5°	8.1	13.6	19.9	21.7
85°	5.4	9.1	12.7	14.5
87.5°	2.7	4.5	6.3	7.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)