

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: P1313453

Luminaire Tested: P3SQAS13R459730DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313453
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R459730DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 97CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

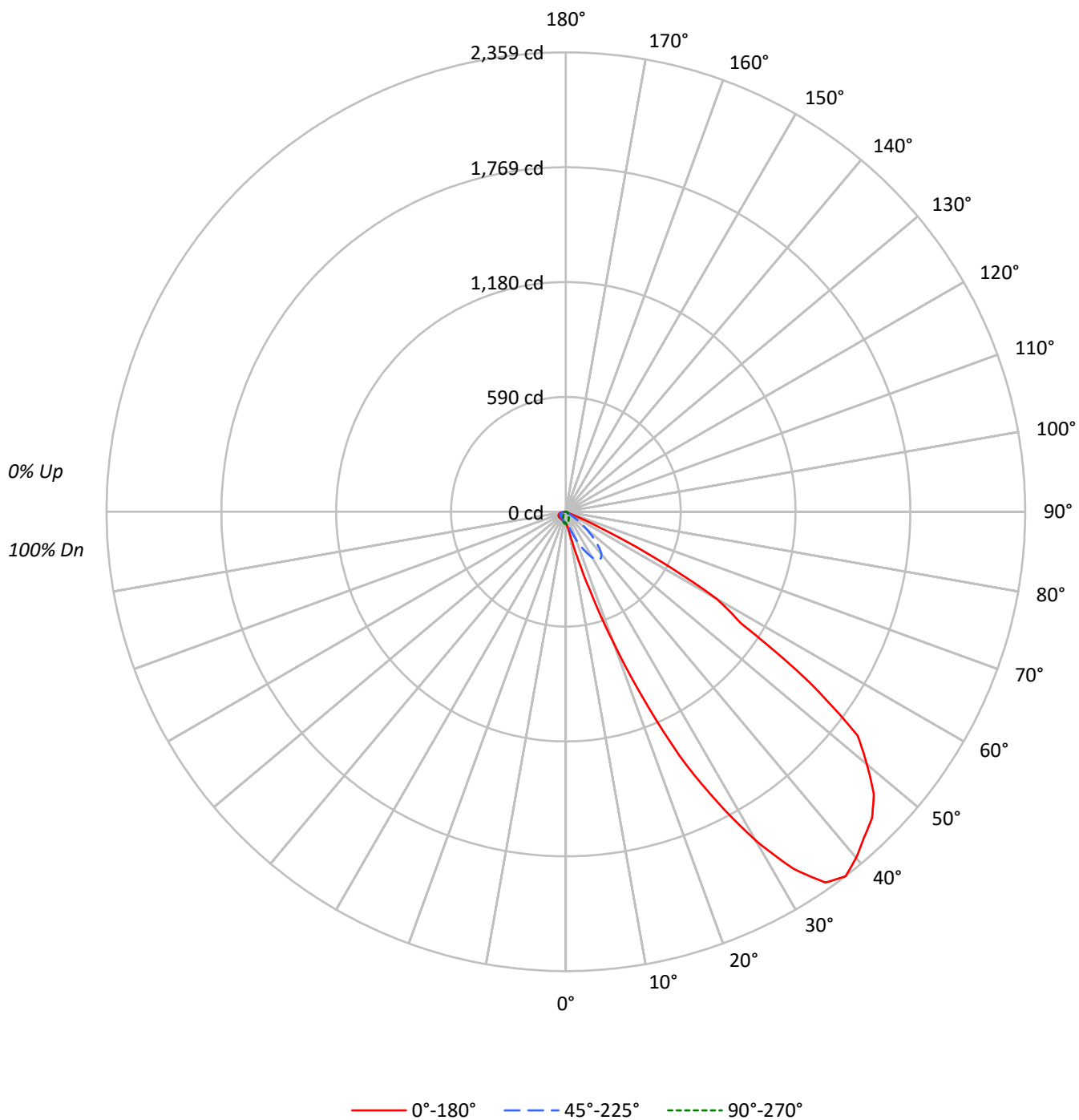
Lumens per Lamp: N/A
Luminaire Lumens: 1054.0 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1313453

CATALOG NUMBER: P3SQAS13R459730DE010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1313453

CATALOG NUMBER: P3SQAS13R459730DE010 E3SQCA451MW

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28
9	53	39	31	25	52	39	30	25	38	30	25	36	29	25	35	29	24
10	49	36	27	22	48	35	27	22	34	27	21	33	26	21	32	26	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10506	10506	10506	10506	10506
5°	12499	11600	10390	9629	9629
10°	19954	13553	9741	9146	9146
15°	49692	18169	8844	8540	8844
20°	130877	27143	7661	8137	8614
25°	262807	40210	6613	7620	8437
30°	387430	53853	5369	7438	8651
35°	488694	63179	4583	7317	8977
40°	521404	63827	4114	7644	9600
45°	541750	53242	3824	8281	10400
50°	540872	37108	3724	8869	11655
55°	459700	16484	3933	9939	12821
60°	308967	3307	3892	11091	14708
65°	81992	1426	3912	12062	16667
70°	2216	1762	3928	13143	18833
75°	1730	1730	4059	13907	21426
80°	1686	2579	4364	14679	24200
85°	1778	3359	6916	15413	24108

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 555678 cd/sqm

TEST NUMBER: P1313453

CATALOG NUMBER: P3SQAS13R459730DE010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.1	0.6
10°-20°	29.7	2.8
20°-30°	122.6	11.6
30°-40°	258.4	24.5
40°-50°	318.8	30.2
50°-60°	239.0	22.7
60°-70°	61.5	5.8
70°-80°	12.7	1.2
80°-90°	5.2	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°	158.4	15.0
0°-40°	416.8	39.5
0°-60°	974.6	92.5
0°-90°	1054.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1054.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	61	61	61	61	61	
5°	72	67	60	56	56	8
15°	279	102	50	48	50	102
25°	1383	212	35	40	44	644
35°	2324	300	22	35	43	1417
45°	2224	219	16	34	43	1702
55°	1531	55	13	33	43	1322
65°	201	4	10	30	41	290
75°	3	3	6	21	32	3
85°	1	2	4	8	12	1
90°	0	0	0	0	0	

TEST NUMBER: P1313453

CATALOG NUMBER: P3SQAS13R459730DE010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
2.5°	64.4	64.4	64.4	64.4	64.4	64.4	64.4	63.6	62.7	61.0	59.2
5°	72.3	71.4	71.4	71.4	70.5	69.7	69.7	67.1	63.6	60.1	57.5
7.5°	85.3	85.3	84.5	82.7	81.9	80.1	78.4	71.4	63.6	58.3	54.9
10°	114.1	112.3	109.7	108.0	103.6	97.5	93.2	77.5	62.7	55.7	53.1
12.5°	170.7	174.2	165.5	156.8	144.6	133.2	119.3	88.0	62.7	53.1	50.5
15°	278.7	284.8	268.2	250.8	221.2	193.3	167.2	101.9	61.0	49.6	47.0
17.5°	455.5	463.3	435.4	394.5	348.4	292.6	244.7	121.1	59.2	46.2	44.4
20°	714.1	713.3	659.3	607.9	519.1	437.2	347.5	148.1	56.6	41.8	41.8
22.5°	1032.0	1035.5	969.3	877.0	750.7	619.2	476.4	179.4	53.1	38.3	39.2
25°	1383.0	1353.4	1275.0	1162.6	1001.5	819.5	631.4	211.6	49.6	34.8	36.6
27.5°	1675.6	1646.9	1557.2	1423.9	1250.6	1034.6	789.0	243.9	45.3	31.4	34.0
30°	1948.2	1911.6	1803.6	1653.0	1446.6	1213.2	937.1	270.8	40.1	27.0	31.4
32.5°	2172.9	2139.8	2017.0	1841.9	1617.3	1366.4	1062.5	291.7	34.8	24.4	29.6
35°	2324.4	2290.5	2177.2	1984.8	1740.0	1477.9	1164.4	300.5	30.5	21.8	28.7
37.5°	2359.3	2341.0	2260.0	2079.7	1824.5	1549.3	1229.7	297.8	25.3	20.0	27.0
40°	2319.2	2323.5	2285.2	2135.4	1869.8	1579.8	1256.7	283.9	20.9	18.3	26.1
42.5°	2267.8	2279.1	2276.5	2158.1	1889.0	1581.5	1245.4	256.0	16.5	16.5	25.3
45°	2224.3	2235.6	2251.3	2148.5	1875.9	1558.9	1209.7	218.6	12.2	15.7	25.3
47.5°	2145.0	2157.2	2179.8	2071.9	1809.7	1500.6	1145.2	177.7	8.7	14.8	24.4
50°	2018.7	2024.8	2018.7	1897.7	1682.6	1406.5	1040.7	138.5	6.1	13.9	24.4
52.5°	1889.0	1876.8	1826.3	1673.0	1480.5	1257.6	909.2	98.4	4.4	13.1	23.5
55°	1531.0	1511.9	1474.4	1380.4	1270.6	1074.7	735.0	54.9	4.4	13.1	22.6
57.5°	1066.8	1077.3	1090.4	1071.2	1020.7	846.5	558.2	24.4	4.4	12.2	22.6
60°	897.0	888.3	889.2	877.0	793.4	617.5	384.1	9.6	4.4	11.3	21.8
62.5°	535.6	541.7	553.0	555.6	472.9	344.9	201.2	4.4	4.4	10.5	20.9
65°	201.2	210.8	184.6	160.2	127.2	93.2	47.0	3.5	5.2	9.6	19.2
67.5°	6.1	7.0	8.7	7.8	7.8	7.0	5.2	3.5	5.2	8.7	18.3
70°	4.4	4.4	4.4	4.4	4.4	3.5	3.5	3.5	4.4	7.8	16.5
72.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.4	7.0	14.8
75°	2.6	3.5	2.6	2.6	2.6	2.6	2.6	2.6	4.4	6.1	12.2
77.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.5	5.2	10.5
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.6	3.5	4.4	8.7
82.5°	1.7	1.7	1.7	0.9	1.7	1.7	1.7	1.7	3.5	3.5	7.0
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	2.6	3.5	4.4
87.5°	0.0	0.0	0.0	0.0	0.9	0.9	0.9	1.7	2.6	2.6	2.6
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: P1313453

CATALOG NUMBER: P3SQAS13R459730DE010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	61.0	61.0	61.0
2.5°	57.5	57.5	57.5
5°	55.7	55.7	55.7
7.5°	54.0	54.0	54.0
10°	52.3	52.3	52.3
12.5°	50.5	50.5	51.4
15°	47.9	49.6	49.6
17.5°	46.2	47.9	48.8
20°	44.4	46.2	47.0
22.5°	41.8	44.4	46.2
25°	40.1	43.5	44.4
27.5°	38.3	42.7	44.4
30°	37.4	41.8	43.5
32.5°	35.7	40.9	42.7
35°	34.8	40.9	42.7
37.5°	34.8	40.1	42.7
40°	34.0	40.1	42.7
42.5°	34.0	40.1	42.7
45°	34.0	40.1	42.7
47.5°	33.1	40.1	43.5
50°	33.1	40.9	43.5
52.5°	33.1	40.9	43.5
55°	33.1	40.9	42.7
57.5°	32.2	40.1	42.7
60°	32.2	40.1	42.7
62.5°	30.5	39.2	41.8
65°	29.6	38.3	40.9
67.5°	27.9	37.4	39.2
70°	26.1	34.8	37.4
72.5°	23.5	33.1	35.7
75°	20.9	30.5	32.2
77.5°	18.3	27.0	28.7
80°	14.8	22.6	24.4
82.5°	11.3	17.4	18.3
85°	7.8	11.3	12.2
87.5°	3.5	5.2	6.1
90°	0.0	0.0	0.0

(END OF REPORT)