

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: P1314140

Luminaire Tested: P3SQAS05R709735DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314140
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: P3SQAS05R709735DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 97CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

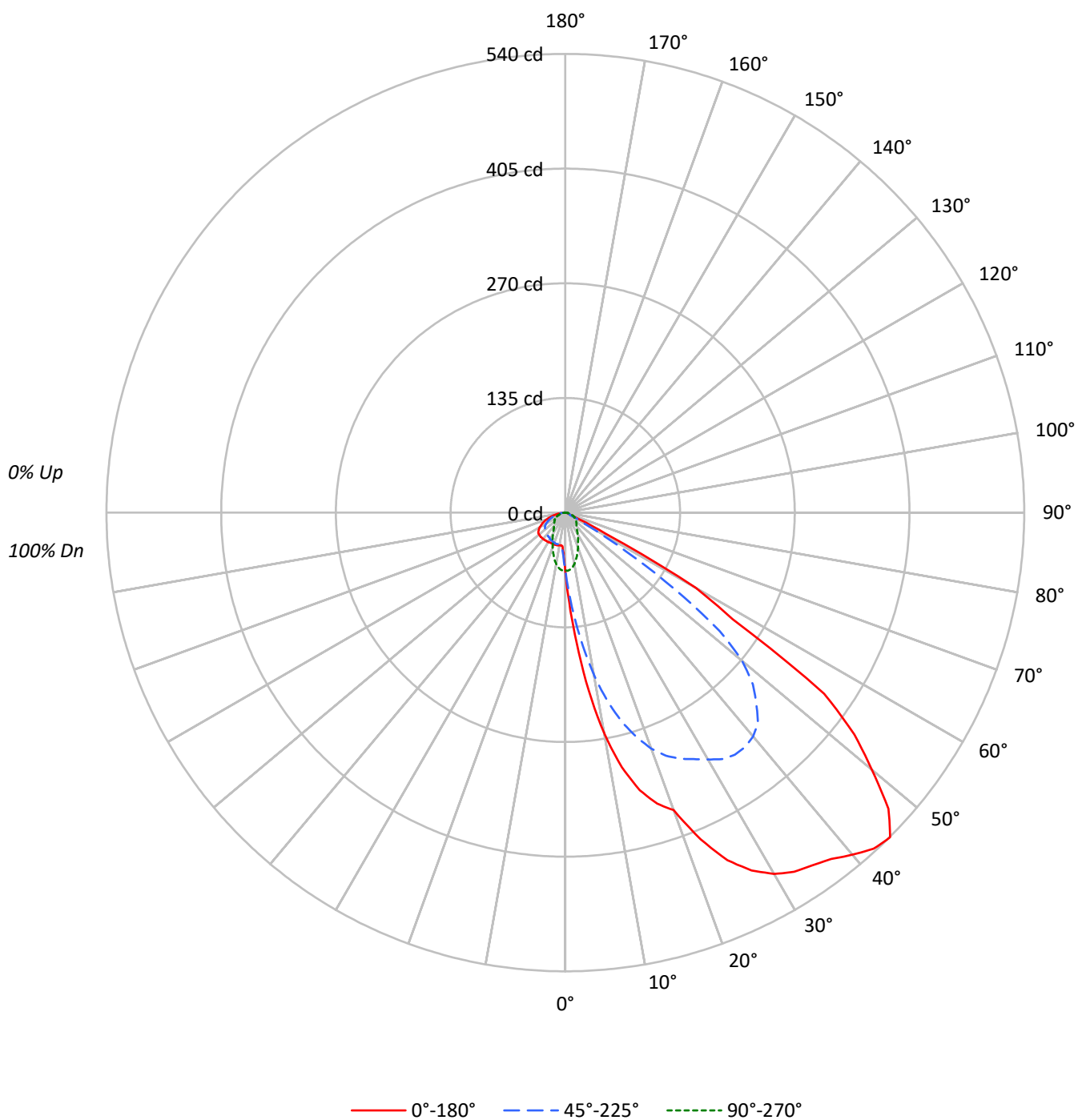
Lumens per Lamp: N/A
Luminaire Lumens: 467.0 lumens
Efficiency: N/A
Efficacy: 64.9 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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: P1314140

CATALOG NUMBER: P3SQAS05R709735DE010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1314140

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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°	11711	11711	11711	11711	11711
5°	26658	21351	11600	7330	6846
10°	46203	33892	10755	6680	6838
15°	60318	45270	9378	6811	7061
20°	68307	54140	8027	6909	7349
25°	85797	60733	6727	6993	7525
30°	97663	66719	5747	7139	7975
35°	106573	73165	5004	7253	8431
40°	118166	77316	4609	7531	9105
45°	131644	77403	4530	7940	9864
50°	126088	72770	4501	8359	10744
55°	111637	47141	4624	8828	11620
60°	61139	10127	4650	8990	12021
65°	4360	2486	4564	8925	12144
70°	2115	2367	4230	8460	11733
75°	1863	2462	4059	8052	10846
80°	1884	2281	3670	7438	10215
85°	1778	2766	3754	6521	9287

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 131644 cd/sqm

TEST NUMBER: P1314140

CATALOG NUMBER: P3SQAS05R709735DE010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.9	1.9
10°-20°	37.9	8.1
20°-30°	72.8	15.6
30°-40°	103.0	22.1
40°-50°	116.5	24.9
50°-60°	92.3	19.8
60°-70°	24.9	5.3
70°-80°	8.3	1.8
80°-90°	2.5	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°	119.6	25.6
0°-40°	222.6	47.7
0°-60°	431.3	92.4
0°-90°	467.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	467.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	68	68	68	68	68	
5°	154	124	67	42	40	18
15°	338	254	53	38	40	95
25°	452	320	35	37	40	207
35°	507	348	24	34	40	319
45°	540	318	19	33	40	404
55°	372	157	15	29	39	302
65°	11	6	11	22	30	39
75°	3	4	6	12	16	3
85°	1	1	2	3	5	1
90°	0	0	0	0	0	

TEST NUMBER: P1314140

CATALOG NUMBER: P3SQAS05R709735DE010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
2.5°	105.8	105.8	105.3	103.4	102.5	100.2	98.3	93.2	80.6	68.5	58.7
5°	154.2	156.6	153.3	152.8	150.0	145.8	143.0	123.5	93.2	67.1	50.3
7.5°	211.5	212.5	211.5	206.9	202.7	195.7	189.2	158.4	105.8	64.8	44.3
10°	264.2	262.8	260.0	256.7	250.7	243.2	232.0	193.8	117.9	61.5	40.5
12.5°	307.0	306.6	303.3	300.1	292.6	282.8	271.6	226.0	128.1	57.3	38.7
15°	338.3	338.3	335.0	331.3	324.3	316.4	303.8	253.9	136.5	52.6	36.8
17.5°	359.2	358.3	356.0	353.2	347.6	339.7	329.9	276.3	142.1	48.0	36.3
20°	372.7	372.3	370.4	366.2	361.6	355.5	346.6	295.4	144.4	43.8	35.9
22.5°	416.1	412.3	405.4	396.5	385.3	370.9	358.8	309.8	143.5	39.1	34.9
25°	451.5	450.1	442.6	431.9	417.0	398.4	378.3	319.6	138.8	35.4	34.0
27.5°	474.8	472.4	465.5	453.8	438.0	419.8	401.2	327.1	132.3	32.1	32.6
30°	491.1	489.7	482.7	469.7	453.3	433.3	414.2	335.5	123.5	28.9	31.2
32.5°	501.3	499.9	493.0	481.3	465.5	444.5	422.6	343.9	112.8	26.1	29.8
35°	506.9	505.5	497.6	487.4	472.4	451.9	428.7	348.0	99.7	23.8	28.4
37.5°	513.9	511.1	500.4	487.8	472.9	453.8	430.5	347.6	86.7	21.9	27.5
40°	525.6	518.1	502.7	486.0	470.6	451.5	429.1	343.9	72.2	20.5	26.6
42.5°	536.7	526.0	503.2	483.2	465.9	447.3	424.0	335.5	56.4	19.6	26.1
45°	540.5	524.6	496.7	476.6	460.3	441.2	417.0	317.8	38.2	18.6	25.2
47.5°	515.8	504.1	480.8	465.9	450.6	431.9	406.8	299.1	21.9	17.7	24.2
50°	470.6	463.1	450.1	440.8	432.4	419.3	394.6	271.6	13.0	16.8	23.3
52.5°	428.7	426.3	417.0	409.5	404.9	398.8	376.5	229.2	10.7	16.3	22.4
55°	371.8	364.4	362.0	359.2	369.0	368.5	338.3	157.0	10.3	15.4	21.4
57.5°	233.4	236.7	248.8	271.2	297.7	313.1	312.2	83.9	9.8	14.4	20.0
60°	177.5	177.1	180.8	190.1	209.7	231.6	252.1	29.4	9.3	13.5	19.1
62.5°	53.1	54.5	65.7	96.4	115.5	142.6	130.0	7.0	8.9	12.1	17.2
65°	10.7	11.2	11.2	12.6	15.4	23.3	28.4	6.1	8.4	11.2	15.8
67.5°	4.7	4.7	4.7	5.1	5.1	6.1	5.1	5.6	7.5	9.8	14.0
70°	4.2	4.2	4.2	4.2	4.2	4.2	4.7	4.7	6.5	8.4	12.1
72.5°	3.3	3.3	3.3	3.7	3.7	3.7	3.7	4.2	5.6	7.0	10.3
75°	2.8	2.8	2.8	2.8	3.3	3.3	3.3	3.7	4.7	6.1	8.4
77.5°	2.3	2.3	2.3	2.3	2.3	2.8	2.8	2.8	3.7	4.7	7.0
80°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.3	2.8	3.7	5.1
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.9	2.3	2.8	3.7
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4	1.4	1.9	2.3
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9	0.9	1.4
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: P1314140

CATALOG NUMBER: P3SQAS05R709735DE010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	68.0	68.0	68.0
2.5°	51.7	48.9	47.5
5°	42.4	40.1	39.6
7.5°	39.1	38.7	38.7
10°	38.2	38.7	39.1
12.5°	38.2	39.1	39.6
15°	38.2	39.1	39.6
17.5°	38.2	39.1	39.6
20°	37.7	39.1	40.1
22.5°	37.3	39.1	39.6
25°	36.8	39.1	39.6
27.5°	36.3	38.7	39.6
30°	35.9	38.7	40.1
32.5°	34.9	38.7	40.1
35°	34.5	38.7	40.1
37.5°	34.0	38.7	40.5
40°	33.5	38.7	40.5
42.5°	33.1	38.7	40.5
45°	32.6	38.2	40.5
47.5°	31.7	38.2	40.5
50°	31.2	37.7	40.1
52.5°	30.3	37.3	40.1
55°	29.4	36.3	38.7
57.5°	28.0	34.9	36.8
60°	26.1	33.1	34.9
62.5°	23.8	30.8	32.1
65°	21.9	28.0	29.8
67.5°	19.1	24.7	26.6
70°	16.8	21.4	23.3
72.5°	14.4	18.2	20.0
75°	12.1	14.9	16.3
77.5°	9.3	12.1	13.0
80°	7.5	9.3	10.3
82.5°	5.1	6.5	7.0
85°	3.3	4.2	4.7
87.5°	1.4	1.9	1.9
90°	0.0	0.0	0.0

(END OF REPORT)