

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: P1311235

Luminaire Tested: P3SQAS09R709050DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311235
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: P3SQAS09R709050DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R70 optic, 5000K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

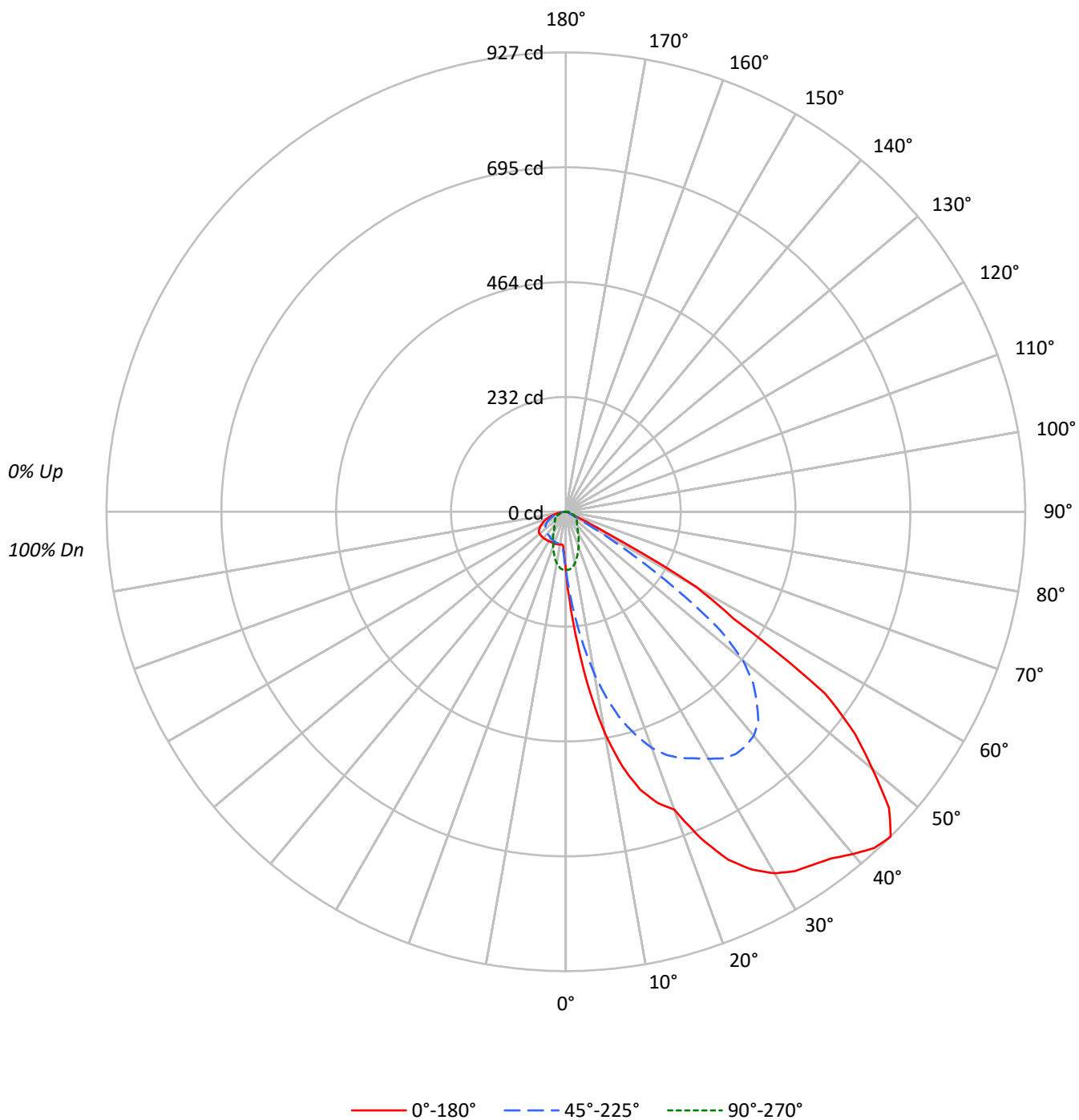
Lumens per Lamp: N/A
Luminaire Lumens: 801.0 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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: P1311235

CATALOG NUMBER: P3SQAS09R709050DE010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1311235

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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°	20098	20098	20098	20098	20098
5°	45727	36616	19899	12568	11739
10°	79238	58147	18450	11455	11734
15°	103448	77649	16100	11679	12106
20°	117168	92866	13764	11858	12591
25°	147157	104173	11535	11991	12903
30°	167504	114427	9844	12230	13662
35°	182808	125516	8578	12425	14444
40°	202676	132599	7914	12927	15625
45°	225780	132740	7794	13615	16927
50°	216274	124829	7716	14334	18407
55°	191476	80860	7927	15103	19907
60°	104884	17326	7991	15431	20632
65°	7498	4238	7824	15323	20824
70°	3626	4028	7251	14502	20142
75°	3194	4259	6920	13841	18632
80°	3174	3967	6347	12695	17456
85°	3162	4742	6323	11066	15808

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 225780 cd/sqm

TEST NUMBER: P1311235

CATALOG NUMBER: P3SQAS09R709050DE010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.2	1.9
10°-20°	65.1	8.1
20°-30°	124.9	15.6
30°-40°	176.6	22.0
40°-50°	199.8	24.9
50°-60°	158.2	19.8
60°-70°	42.7	5.3
70°-80°	14.2	1.8
80°-90°	4.3	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°	205.2	25.6
0°-40°	381.8	47.7
0°-60°	739.8	92.4
0°-90°	801.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	801.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	117	117	117	117	117	
5°	264	212	115	73	68	31
15°	580	436	90	66	68	163
25°	774	548	61	63	68	355
35°	870	597	41	59	69	548
45°	927	545	32	56	70	694
55°	638	269	26	50	66	518
65°	18	10	19	38	51	66
75°	5	6	10	21	28	5
85°	2	2	3	6	8	2
90°	0	0	0	0	0	

TEST NUMBER: P1311235

CATALOG NUMBER: P3SQAS09R709050DE010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	116.7	116.7	116.7	116.7	116.7	116.7	116.7	116.7	116.7	116.7	116.7
2.5°	181.4	181.4	180.6	177.4	175.8	171.8	168.6	159.8	138.3	117.5	100.7
5°	264.5	268.5	262.9	262.1	257.3	250.1	245.3	211.8	159.8	115.1	86.3
7.5°	362.8	364.4	362.8	354.8	347.6	335.6	324.5	271.7	181.4	111.1	75.9
10°	453.1	450.7	445.9	440.3	429.9	417.2	398.0	332.5	202.2	105.5	69.5
12.5°	526.6	525.8	520.3	514.7	501.9	485.1	465.9	387.6	219.8	98.3	66.3
15°	580.2	580.2	574.6	568.2	556.2	542.6	521.1	435.5	234.2	90.3	63.1
17.5°	616.2	614.6	610.6	605.8	596.2	582.6	565.8	473.9	243.7	82.3	62.3
20°	639.3	638.5	635.3	628.1	620.1	609.8	594.6	506.7	247.7	75.1	61.5
22.5°	713.6	707.3	695.3	680.1	660.9	636.1	615.4	531.4	246.1	67.1	59.9
25°	774.4	772.0	759.2	740.8	715.2	683.3	648.9	548.2	238.1	60.7	58.3
27.5°	814.3	810.3	798.4	778.4	751.2	720.0	688.1	561.0	227.0	55.1	55.9
30°	842.3	839.9	827.9	805.6	777.6	743.2	710.5	575.4	211.8	49.5	53.5
32.5°	859.9	857.5	845.5	825.5	798.4	762.4	724.8	589.8	193.4	44.8	51.1
35°	869.5	867.1	853.5	835.9	810.3	775.2	735.2	597.0	171.0	40.8	48.7
37.5°	881.5	876.7	858.3	836.7	811.1	778.4	738.4	596.2	148.6	37.6	47.2
40°	901.5	888.7	862.3	833.5	807.2	774.4	736.0	589.8	123.9	35.2	45.6
42.5°	920.6	902.3	863.1	828.7	799.2	767.2	727.2	575.4	96.7	33.6	44.8
45°	927.0	899.9	851.9	817.5	789.6	756.8	715.2	545.0	65.5	32.0	43.2
47.5°	884.7	864.7	824.7	799.2	772.8	740.8	697.7	513.1	37.6	30.4	41.6
50°	807.2	794.4	772.0	756.0	741.6	719.2	676.9	465.9	22.4	28.8	40.0
52.5°	735.2	731.2	715.2	702.5	694.5	684.1	645.7	393.2	18.4	28.0	38.4
55°	637.7	624.9	620.9	616.2	632.9	632.1	580.2	269.3	17.6	26.4	36.8
57.5°	400.4	406.0	426.8	465.1	510.7	537.0	535.4	143.8	16.8	24.8	34.4
60°	304.5	303.7	310.1	326.1	359.6	397.2	432.3	50.3	16.0	23.2	32.8
62.5°	91.1	93.5	112.7	165.4	198.2	244.5	223.0	12.0	15.2	20.8	29.6
65°	18.4	19.2	19.2	21.6	26.4	40.0	48.7	10.4	14.4	19.2	27.2
67.5°	8.0	8.0	8.0	8.8	8.8	10.4	8.8	9.6	12.8	16.8	24.0
70°	7.2	7.2	7.2	7.2	7.2	7.2	8.0	8.0	11.2	14.4	20.8
72.5°	5.6	5.6	5.6	6.4	6.4	6.4	6.4	7.2	9.6	12.0	17.6
75°	4.8	4.8	4.8	4.8	5.6	5.6	5.6	6.4	8.0	10.4	14.4
77.5°	4.0	4.0	4.0	4.0	4.0	4.8	4.8	4.8	6.4	8.0	12.0
80°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.0	4.8	6.4	8.8
82.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.2	4.0	4.8	6.4
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4	2.4	3.2	4.0
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6	2.4
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: P1311235

CATALOG NUMBER: P3SQAS09R709050DE010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	116.7	116.7	116.7
2.5°	88.7	83.9	81.5
5°	72.7	68.7	67.9
7.5°	67.1	66.3	66.3
10°	65.5	66.3	67.1
12.5°	65.5	67.1	67.9
15°	65.5	67.1	67.9
17.5°	65.5	67.1	67.9
20°	64.7	67.1	68.7
22.5°	63.9	67.1	67.9
25°	63.1	67.1	67.9
27.5°	62.3	66.3	67.9
30°	61.5	66.3	68.7
32.5°	59.9	66.3	68.7
35°	59.1	66.3	68.7
37.5°	58.3	66.3	69.5
40°	57.5	66.3	69.5
42.5°	56.7	66.3	69.5
45°	55.9	65.5	69.5
47.5°	54.3	65.5	69.5
50°	53.5	64.7	68.7
52.5°	51.9	63.9	68.7
55°	50.3	62.3	66.3
57.5°	47.9	59.9	63.1
60°	44.8	56.7	59.9
62.5°	40.8	52.7	55.1
65°	37.6	47.9	51.1
67.5°	32.8	42.4	45.6
70°	28.8	36.8	40.0
72.5°	24.8	31.2	34.4
75°	20.8	25.6	28.0
77.5°	16.0	20.8	22.4
80°	12.8	16.0	17.6
82.5°	8.8	11.2	12.0
85°	5.6	7.2	8.0
87.5°	2.4	3.2	3.2
90°	0.0	0.0	0.0

(END OF REPORT)