

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: P1305998

Luminaire Tested: P3SQASS13R709024DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1305998
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: P3SQASS13R709024DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R70 optic, 2400K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

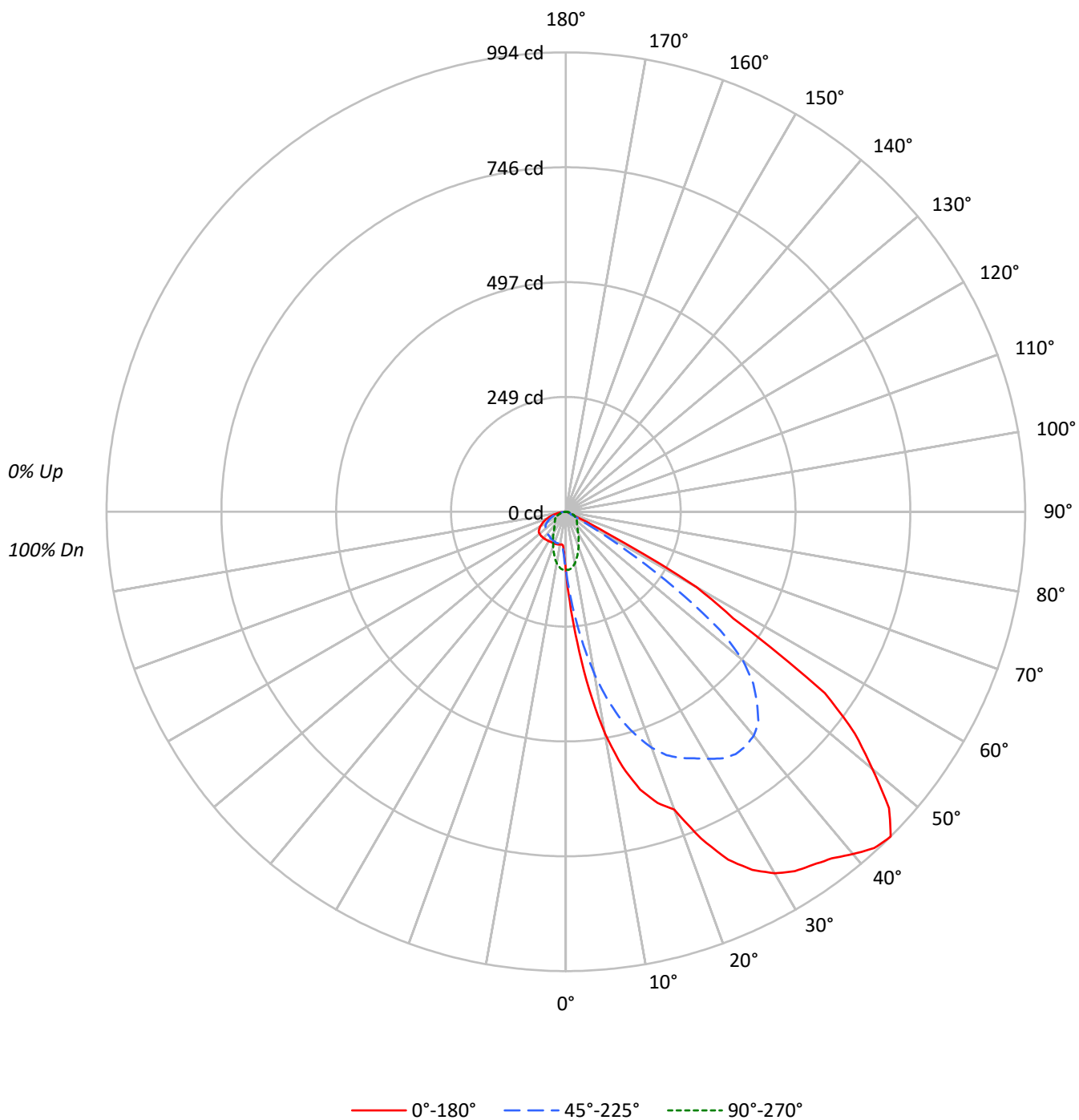
Lumens per Lamp: N/A
Luminaire Lumens: 859.0 lumens
Efficiency: N/A
Efficacy: 58.8 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1305998

CATALOG NUMBER: P3SQASS13R709024DE010 E3SQCA451MB

Luminous Intensity Polar Plot



TEST NUMBER: P1305998

CATALOG NUMBER: P3SQASS13R709024DE010 E3SQCA451MB

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	0
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°	21545	21545	21545	21545	21545
5°	49046	39261	21333	13485	12586
10°	84974	62345	19779	12294	12591
15°	110937	83283	17259	12534	12980
20°	125654	99592	14772	12719	13507
25°	157817	111717	12371	12865	13834
30°	179635	122720	10560	13125	14656
35°	196032	134599	9188	13330	15495
40°	217334	142199	8476	13871	16772
45°	242123	142361	8354	14614	18170
50°	231921	133858	8279	15379	19747
55°	205349	86715	8497	16214	21349
60°	112461	18600	8577	16533	22148
65°	8028	4523	8395	16423	22332
70°	3877	4330	7755	15560	21602
75°	3394	4591	7386	14839	19963
80°	3372	4265	6843	13588	18745
85°	3359	5138	6719	11856	16994

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 242123 cd/sqm

TEST NUMBER: P1305998

CATALOG NUMBER: P3SQASS13R709024DE010 E3SQCA451MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.3	1.9
10°-20°	69.8	8.1
20°-30°	133.9	15.6
30°-40°	189.4	22.0
40°-50°	214.3	24.9
50°-60°	169.7	19.8
60°-70°	45.7	5.3
70°-80°	15.2	1.8
80°-90°	4.6	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°	220.1	25.6
0°-40°	409.5	47.7
0°-60°	793.4	92.4
0°-90°	859.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	859.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	125	125	125	125	125	
5°	284	227	123	78	73	34
15°	622	467	97	70	73	175
25°	830	588	65	68	73	381
35°	932	640	44	63	74	587
45°	994	584	34	60	75	744
55°	684	289	28	54	71	555
65°	20	11	21	40	55	71
75°	5	7	11	22	30	6
85°	2	3	3	6	9	2
90°	0	0	0	0	0	

TEST NUMBER: P1305998

CATALOG NUMBER: P3SQASS13R709024DE010 E3SQCA451MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	125.1	125.1	125.1	125.1	125.1	125.1	125.1	125.1	125.1	125.1	125.1
2.5°	194.5	194.5	193.7	190.3	188.5	184.3	180.8	171.4	148.3	126.0	108.0
5°	283.7	288.0	282.0	281.1	276.0	268.2	263.1	227.1	171.4	123.4	92.6
7.5°	389.1	390.8	389.1	380.5	372.8	360.0	348.0	291.4	194.5	119.1	81.4
10°	485.9	483.4	478.2	472.2	461.1	447.4	426.8	356.5	216.8	113.1	74.6
12.5°	564.8	563.9	557.9	551.9	538.2	520.2	499.6	415.7	235.7	105.4	71.1
15°	622.2	622.2	616.2	609.3	596.5	581.9	558.8	467.1	251.1	96.8	67.7
17.5°	660.8	659.1	654.8	649.6	639.3	624.8	606.8	508.2	261.4	88.3	66.8
20°	685.6	684.8	681.3	673.6	665.1	653.9	637.6	543.4	265.7	80.6	66.0
22.5°	765.3	758.5	745.6	729.3	708.8	682.2	659.9	569.9	264.0	72.0	64.3
25°	830.5	827.9	814.2	794.5	767.0	732.8	695.9	587.9	255.4	65.1	62.6
27.5°	873.3	869.0	856.2	834.7	805.6	772.2	737.9	601.6	243.4	59.1	60.0
30°	903.3	900.7	887.9	863.9	833.9	797.0	761.9	617.1	227.1	53.1	57.4
32.5°	922.2	919.6	906.7	885.3	856.2	817.6	777.3	632.5	207.4	48.0	54.8
35°	932.4	929.9	915.3	896.4	869.0	831.3	788.5	640.2	183.4	43.7	52.3
37.5°	945.3	940.2	920.4	897.3	869.9	834.7	791.9	639.3	159.4	40.3	50.6
40°	966.7	953.0	924.7	893.9	865.6	830.5	789.3	632.5	132.8	37.7	48.9
42.5°	987.3	967.6	925.6	888.7	857.0	822.7	779.9	617.1	103.7	36.0	48.0
45°	994.1	965.0	913.6	876.7	846.7	811.6	767.0	584.5	70.3	34.3	46.3
47.5°	948.7	927.3	884.5	857.0	828.7	794.5	748.2	550.2	40.3	32.6	44.6
50°	865.6	851.9	827.9	810.7	795.3	771.3	725.9	499.6	24.0	30.9	42.9
52.5°	788.5	784.2	767.0	753.3	744.8	733.6	692.5	421.7	19.7	30.0	41.1
55°	683.9	670.2	665.9	660.8	678.8	677.9	622.2	288.8	18.9	28.3	39.4
57.5°	429.4	435.4	457.7	498.8	547.6	575.9	574.2	154.3	18.0	26.6	36.9
60°	326.5	325.7	332.5	349.7	385.7	425.9	463.7	54.0	17.1	24.9	35.1
62.5°	97.7	100.3	120.8	177.4	212.5	262.2	239.1	12.9	16.3	22.3	31.7
65°	19.7	20.6	20.6	23.1	28.3	42.9	52.3	11.1	15.4	20.6	29.1
67.5°	8.6	8.6	8.6	9.4	9.4	11.1	9.4	10.3	13.7	18.0	25.7
70°	7.7	7.7	7.7	7.7	7.7	7.7	8.6	8.6	12.0	15.4	22.3
72.5°	6.0	6.0	6.0	6.9	6.9	6.9	6.9	7.7	10.3	12.9	18.9
75°	5.1	5.1	5.1	5.1	6.0	6.0	6.0	6.9	8.6	11.1	15.4
77.5°	4.3	4.3	4.3	4.3	4.3	5.1	5.1	5.1	6.9	8.6	12.9
80°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.3	5.1	6.9	9.4
82.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.4	4.3	5.1	6.9
85°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.6	2.6	3.4	4.3
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7	1.7	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: P1305998

CATALOG NUMBER: P3SQASS13R709024DE010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	125.1	125.1	125.1
2.5°	95.1	90.0	87.4
5°	78.0	73.7	72.8
7.5°	72.0	71.1	71.1
10°	70.3	71.1	72.0
12.5°	70.3	72.0	72.8
15°	70.3	72.0	72.8
17.5°	70.3	72.0	72.8
20°	69.4	72.0	73.7
22.5°	68.6	72.0	72.8
25°	67.7	72.0	72.8
27.5°	66.8	71.1	72.8
30°	66.0	71.1	73.7
32.5°	64.3	71.1	73.7
35°	63.4	71.1	73.7
37.5°	62.6	71.1	74.6
40°	61.7	71.1	74.6
42.5°	60.8	71.1	74.6
45°	60.0	70.3	74.6
47.5°	58.3	70.3	74.6
50°	57.4	69.4	73.7
52.5°	55.7	68.6	73.7
55°	54.0	66.8	71.1
57.5°	51.4	64.3	67.7
60°	48.0	60.8	64.3
62.5°	43.7	56.6	59.1
65°	40.3	51.4	54.8
67.5°	35.1	45.4	48.9
70°	30.9	39.4	42.9
72.5°	26.6	33.4	36.9
75°	22.3	27.4	30.0
77.5°	17.1	22.3	24.0
80°	13.7	17.1	18.9
82.5°	9.4	12.0	12.9
85°	6.0	7.7	8.6
87.5°	2.6	3.4	3.4
90°	0.0	0.0	0.0

(END OF REPORT)