

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: P1309207

Luminaire Tested: P3SQAS13R709035DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309207
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: P3SQAS13R709035DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

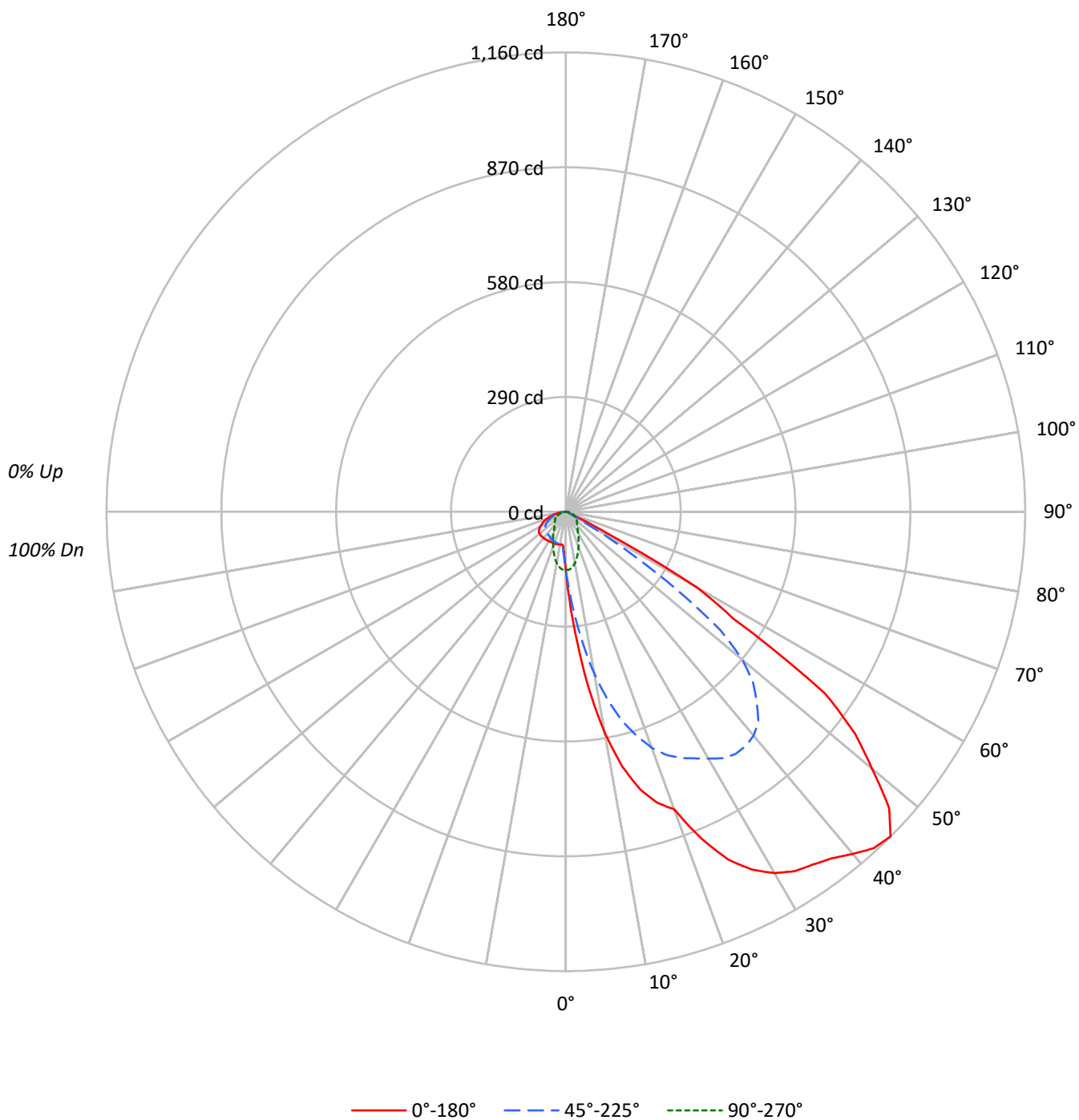
Lumens per Lamp: N/A
Luminaire Lumens: 1002.1 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1309207

CATALOG NUMBER: P3SQAS13R709035DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1309207

CATALOG NUMBER: P3SQAS13R709035DE010 E3SQCA451MMS

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°	25145	25145	25145	25145	25145
5°	57206	45796	24895	15732	14695
10°	99122	72732	23084	14340	14690
15°	129409	97137	20148	14620	15155
20°	146584	116160	17228	14845	15762
25°	184079	130320	14442	15012	16152
30°	209545	143143	12330	15313	17102
35°	228684	157011	10722	15558	18081
40°	253530	165873	9892	16187	19559
45°	282432	166059	9742	17049	21190
50°	270530	156150	9646	17951	23042
55°	239548	101158	9909	18916	24922
60°	131199	21700	9989	19289	25833
65°	9373	5298	9780	19153	26081
70°	4532	5035	9064	18128	25177
75°	3993	5323	8650	17301	23290
80°	3967	4959	7934	15869	21819
85°	3952	5928	7904	13832	19760

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 282432 cd/sqm

TEST NUMBER: P1309207

CATALOG NUMBER: P3SQAS13R709035DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.0	1.9
10°-20°	81.4	8.1
20°-30°	156.2	15.6
30°-40°	220.9	22.0
40°-50°	249.9	24.9
50°-60°	197.9	19.8
60°-70°	53.4	5.3
70°-80°	17.7	1.8
80°-90°	5.4	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°	256.7	25.6
0°-40°	477.7	47.7
0°-60°	925.5	92.4
0°-90°	1002.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1002.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	146	146	146	146	146	
5°	331	265	144	91	85	39
15°	726	545	113	82	85	204
25°	969	686	76	79	85	444
35°	1088	747	51	74	86	685
45°	1160	682	40	70	87	868
55°	798	337	33	63	83	647
65°	23	13	24	47	64	83
75°	6	8	13	26	35	6
85°	2	3	4	7	10	2
90°	0	0	0	0	0	

TEST NUMBER: P1309207

CATALOG NUMBER: P3SQAS13R709035DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	146.0	146.0	146.0	146.0	146.0	146.0	146.0	146.0	146.0	146.0	146.0
2.5°	226.9	226.9	225.9	221.9	219.9	214.9	210.9	199.9	172.9	147.0	126.0
5°	330.9	335.9	328.9	327.9	321.9	312.9	306.9	264.9	199.9	144.0	108.0
7.5°	453.9	455.9	453.9	443.9	434.9	419.9	405.9	339.9	226.9	139.0	95.0
10°	566.8	563.8	557.8	550.8	537.8	521.8	497.8	415.9	252.9	132.0	87.0
12.5°	658.8	657.8	650.8	643.8	627.8	606.8	582.8	484.9	274.9	123.0	83.0
15°	725.8	725.8	718.8	710.8	695.8	678.8	651.8	544.8	292.9	113.0	79.0
17.5°	770.8	768.8	763.8	757.8	745.8	728.8	707.8	592.8	304.9	103.0	78.0
20°	799.8	798.8	794.8	785.8	775.8	762.8	743.8	633.8	309.9	94.0	77.0
22.5°	892.7	884.7	869.7	850.7	826.7	795.8	769.8	664.8	307.9	84.0	75.0
25°	968.7	965.7	949.7	926.7	894.7	854.7	811.8	685.8	297.9	76.0	73.0
27.5°	1018.7	1013.7	998.7	973.7	939.7	900.7	860.7	701.8	283.9	69.0	70.0
30°	1053.7	1050.7	1035.7	1007.7	972.7	929.7	888.7	719.8	264.9	62.0	67.0
32.5°	1075.7	1072.7	1057.7	1032.7	998.7	953.7	906.7	737.8	241.9	56.0	64.0
35°	1087.7	1084.7	1067.7	1045.7	1013.7	969.7	919.7	746.8	213.9	51.0	61.0
37.5°	1102.7	1096.7	1073.7	1046.7	1014.7	973.7	923.7	745.8	185.9	47.0	59.0
40°	1127.7	1111.7	1078.7	1042.7	1009.7	968.7	920.7	737.8	155.0	44.0	57.0
42.5°	1151.7	1128.7	1079.7	1036.7	999.7	959.7	909.7	719.8	121.0	42.0	56.0
45°	1159.6	1125.7	1065.7	1022.7	987.7	946.7	894.7	681.8	82.0	40.0	54.0
47.5°	1106.7	1081.7	1031.7	999.7	966.7	926.7	872.7	641.8	47.0	38.0	52.0
50°	1009.7	993.7	965.7	945.7	927.7	899.7	846.7	582.8	28.0	36.0	50.0
52.5°	919.7	914.7	894.7	878.7	868.7	855.7	807.8	491.9	23.0	35.0	48.0
55°	797.8	781.8	776.8	770.8	791.8	790.8	725.8	336.9	22.0	33.0	46.0
57.5°	500.8	507.8	533.8	581.8	638.8	671.8	669.8	179.9	21.0	31.0	43.0
60°	380.9	379.9	387.9	407.9	449.9	496.8	540.8	63.0	20.0	29.0	41.0
62.5°	114.0	117.0	141.0	206.9	247.9	305.9	278.9	15.0	19.0	26.0	37.0
65°	23.0	24.0	24.0	27.0	33.0	50.0	61.0	13.0	18.0	24.0	34.0
67.5°	10.0	10.0	10.0	11.0	11.0	13.0	11.0	12.0	16.0	21.0	30.0
70°	9.0	9.0	9.0	9.0	9.0	9.0	10.0	10.0	14.0	18.0	26.0
72.5°	7.0	7.0	7.0	8.0	8.0	8.0	8.0	9.0	12.0	15.0	22.0
75°	6.0	6.0	6.0	6.0	7.0	7.0	7.0	8.0	10.0	13.0	18.0
77.5°	5.0	5.0	5.0	5.0	5.0	6.0	6.0	6.0	8.0	10.0	15.0
80°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	5.0	6.0	8.0	11.0
82.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.0	5.0	6.0	8.0
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	4.0	5.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	3.0
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: P1309207

CATALOG NUMBER: P3SQAS13R709035DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	146.0	146.0	146.0
2.5°	111.0	105.0	102.0
5°	91.0	86.0	85.0
7.5°	84.0	83.0	83.0
10°	82.0	83.0	84.0
12.5°	82.0	84.0	85.0
15°	82.0	84.0	85.0
17.5°	82.0	84.0	85.0
20°	81.0	84.0	86.0
22.5°	80.0	84.0	85.0
25°	79.0	84.0	85.0
27.5°	78.0	83.0	85.0
30°	77.0	83.0	86.0
32.5°	75.0	83.0	86.0
35°	74.0	83.0	86.0
37.5°	73.0	83.0	87.0
40°	72.0	83.0	87.0
42.5°	71.0	83.0	87.0
45°	70.0	82.0	87.0
47.5°	68.0	82.0	87.0
50°	67.0	81.0	86.0
52.5°	65.0	80.0	86.0
55°	63.0	78.0	83.0
57.5°	60.0	75.0	79.0
60°	56.0	71.0	75.0
62.5°	51.0	66.0	69.0
65°	47.0	60.0	64.0
67.5°	41.0	53.0	57.0
70°	36.0	46.0	50.0
72.5°	31.0	39.0	43.0
75°	26.0	32.0	35.0
77.5°	20.0	26.0	28.0
80°	16.0	20.0	22.0
82.5°	11.0	14.0	15.0
85°	7.0	9.0	10.0
87.5°	3.0	4.0	4.0
90°	0.0	0.0	0.0

(END OF REPORT)