

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: P1314460

Luminaire Tested: P3SQAS13R709735DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314460
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-57)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R709735DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 97CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

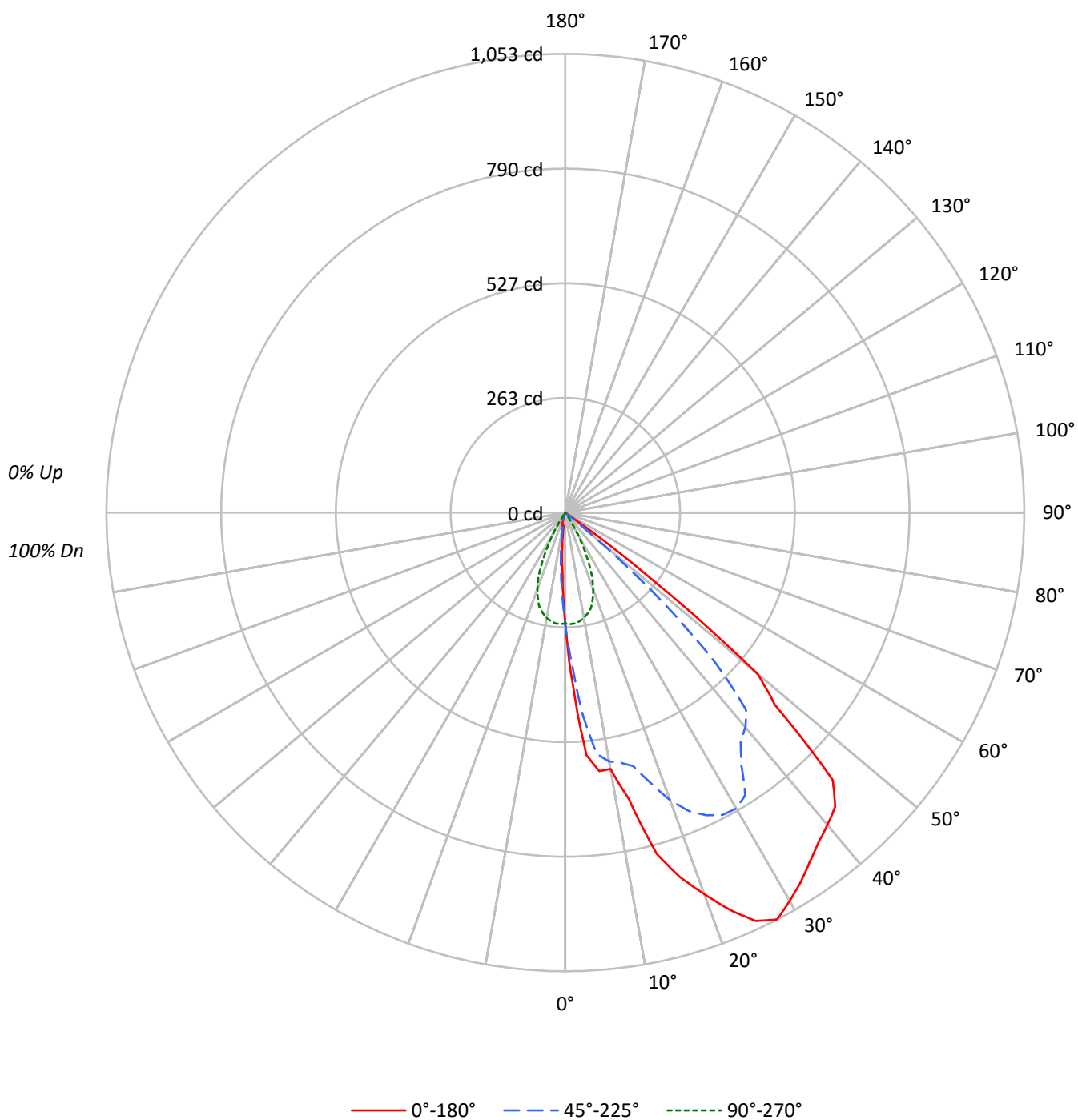
Lumens per Lamp: N/A
Luminaire Lumens: 685.0 lumens
Efficiency: N/A
Efficacy: 46.9 lumens/watt
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1314460

CATALOG NUMBER: P3SQAS13R709735DE010 E3SQCA301MB

Luminous Intensity Polar Plot



TEST NUMBER: P1314460

CATALOG NUMBER: P3SQAS13R709735DE010 E3SQCA301MB

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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	99	94	90	103	98	93	89	94	90	87	91	88	85	88	86	84	82		
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73		
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66		
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59		
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53		
7	74	63	56	50	73	62	55	50	61	55	50	59	54	50	58	53	49	48		
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43		
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39		
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	43779	43779	43779	43779	43779
5°	96588	81046	44119	20054	13208
10°	104473	101430	42933	5579	5754
15°	144600	107371	40509	5688	4137
20°	170776	128623	34364	3372	1246
25°	196545	145655	24247	551	0
30°	204732	155891	11156	0	0
35°	205662	147760	610	0	0
40°	210365	144515	0	0	0
45°	211410	118419	0	0	0
50°	154355	24596	0	0	0
55°	8708	0	0	0	0
60°	0	344	344	0	0
65°	0	0	408	0	0
70°	0	504	504	0	0
75°	0	665	665	0	0
80°	0	992	992	992	0
85°	0	1976	1976	1976	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 215428 cd/sqm

TEST NUMBER: P1314460

CATALOG NUMBER: P3SQAS13R709735DE010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.8	4.1
10°-20°	92.9	13.6
20°-30°	166.9	24.4
30°-40°	202.9	29.6
40°-50°	156.7	22.9
50°-60°	36.5	5.3
60°-70°	0.2	0.0
70°-80°	0.5	0.1
80°-90°	0.5	0.1
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°	287.6	42.0
0°-40°	490.6	71.6
0°-60°	683.7	99.8
0°-90°	685.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	685.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	254	254	254	254	254	
5°	559	469	255	116	76	53
15°	811	602	227	32	23	227
25°	1034	766	128	3	0	471
35°	978	703	3	0	0	614
45°	868	486	0	0	0	613
55°	29	0	0	0	0	119
65°	0	0	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	1	1	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1314460

CATALOG NUMBER: P3SQAS13R709735DE010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	254.2	254.2	254.2	254.2	254.2	254.2	254.2	254.2	254.2	254.2	254.2
2.5°	396.3	396.3	398.3	397.3	388.6	384.7	372.2	365.4	363.5	348.0	342.2
5°	558.7	559.7	554.9	553.9	544.2	537.5	526.8	510.4	494.0	468.8	446.6
7.5°	598.4	597.4	596.4	596.4	594.5	590.6	585.8	581.0	574.2	558.7	541.3
10°	597.4	597.4	596.4	596.4	595.5	596.4	595.5	592.6	589.7	580.0	570.3
12.5°	672.8	667.0	659.3	647.7	628.3	613.8	597.4	592.6	590.6	587.7	581.9
15°	811.0	806.2	789.7	769.4	750.1	717.3	691.2	655.4	627.4	602.2	589.7
17.5°	877.7	880.6	862.2	849.7	831.3	805.2	774.3	737.5	697.9	650.6	612.9
20°	931.8	934.7	919.3	906.7	885.4	858.4	831.3	791.7	754.0	701.8	652.5
22.5°	986.9	988.9	974.4	956.0	931.8	903.8	869.0	828.4	787.8	741.4	689.2
25°	1034.3	1032.4	1008.2	982.1	958.9	928.9	895.1	855.5	816.8	766.5	717.3
27.5°	1052.7	1051.7	1024.6	999.5	972.4	931.8	901.9	867.1	826.5	782.0	731.7
30°	1029.5	1044.9	1027.5	1009.2	976.3	935.7	906.7	865.1	827.4	783.9	726.9
32.5°	1005.3	1024.6	1018.8	1010.1	971.5	939.6	901.9	863.2	818.7	768.5	681.5
35°	978.2	998.5	999.5	989.8	955.0	923.1	888.3	847.7	797.5	702.8	639.0
37.5°	954.1	973.4	979.2	958.9	931.8	889.3	857.4	814.9	724.0	660.2	627.4
40°	935.7	950.2	958.9	927.0	899.9	858.4	821.6	747.2	665.1	642.8	596.4
42.5°	916.4	929.9	933.8	899.0	857.4	817.8	764.6	670.9	646.7	613.8	489.1
45°	868.0	884.5	874.8	841.0	810.0	768.5	689.2	648.6	622.5	486.2	300.6
47.5°	651.5	669.9	696.0	705.7	716.3	686.3	642.8	628.3	511.4	294.8	93.8
50°	576.1	573.2	573.2	578.1	586.8	596.4	609.0	529.7	307.4	91.8	0.0
52.5°	234.9	246.5	303.5	354.8	413.7	472.7	491.1	324.8	119.9	1.9	0.0
55°	29.0	29.0	40.6	69.6	115.0	185.6	208.8	104.4	8.7	0.0	0.0
57.5°	0.0	0.0	0.0	1.0	7.7	21.3	14.5	3.9	1.0	1.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
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: P1314460

CATALOG NUMBER: P3SQAS13R709735DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	254.2	254.2	254.2	254.2	254.2	254.2	254.2	254.2
2.5°	332.5	320.9	304.5	256.2	214.6	177.9	156.6	146.0
5°	425.3	397.3	359.6	255.2	174.0	116.0	87.0	76.4
7.5°	514.3	482.4	418.6	251.3	133.4	67.7	37.7	30.0
10°	552.9	529.7	472.7	245.5	96.7	31.9	31.9	32.9
12.5°	568.4	551.0	504.6	236.8	63.8	30.9	32.9	30.9
15°	579.0	562.6	520.1	227.2	36.7	31.9	26.1	23.2
17.5°	584.8	565.5	524.9	208.8	24.2	27.1	16.4	13.5
20°	603.2	572.3	528.8	187.5	23.2	18.4	8.7	6.8
22.5°	634.1	585.8	529.7	161.4	18.4	10.6	2.9	0.0
25°	662.2	604.2	532.6	127.6	5.8	2.9	0.0	0.0
27.5°	675.7	610.0	531.7	89.9	0.0	0.0	0.0	0.0
30°	659.3	595.5	523.0	56.1	0.0	0.0	0.0	0.0
32.5°	620.6	584.8	495.9	24.2	0.0	0.0	0.0	0.0
35°	608.0	561.6	434.0	2.9	0.0	0.0	0.0	0.0
37.5°	580.0	494.9	319.0	0.0	0.0	0.0	0.0	0.0
40°	498.8	357.7	151.8	0.0	0.0	0.0	0.0	0.0
42.5°	329.6	152.7	8.7	0.0	0.0	0.0	0.0	0.0
45°	116.0	9.7	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0
67.5°	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
70°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
72.5°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
75°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
77.5°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
80°	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0
85°	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0
87.5°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)