

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: SURE-LITES

Report Number: 168P232

Luminaire Tested: **STL2 - 132**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: 168P232  
Test Lab: METALUX LABORATORIES  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SURE-LITES  
Catalog Number: STL2 - 132  
Description: STAIRLITE 2 STRIPLIGHT, T8 32 WATT LAMP, TOP LAMP  
Light Source: ONE - PHILIPS - F32T8/TL835 - 3000 LUMENS - 32 WATTS  
Ballast/Driver: ADVANCE RCN-1S32-SC

**Summary**

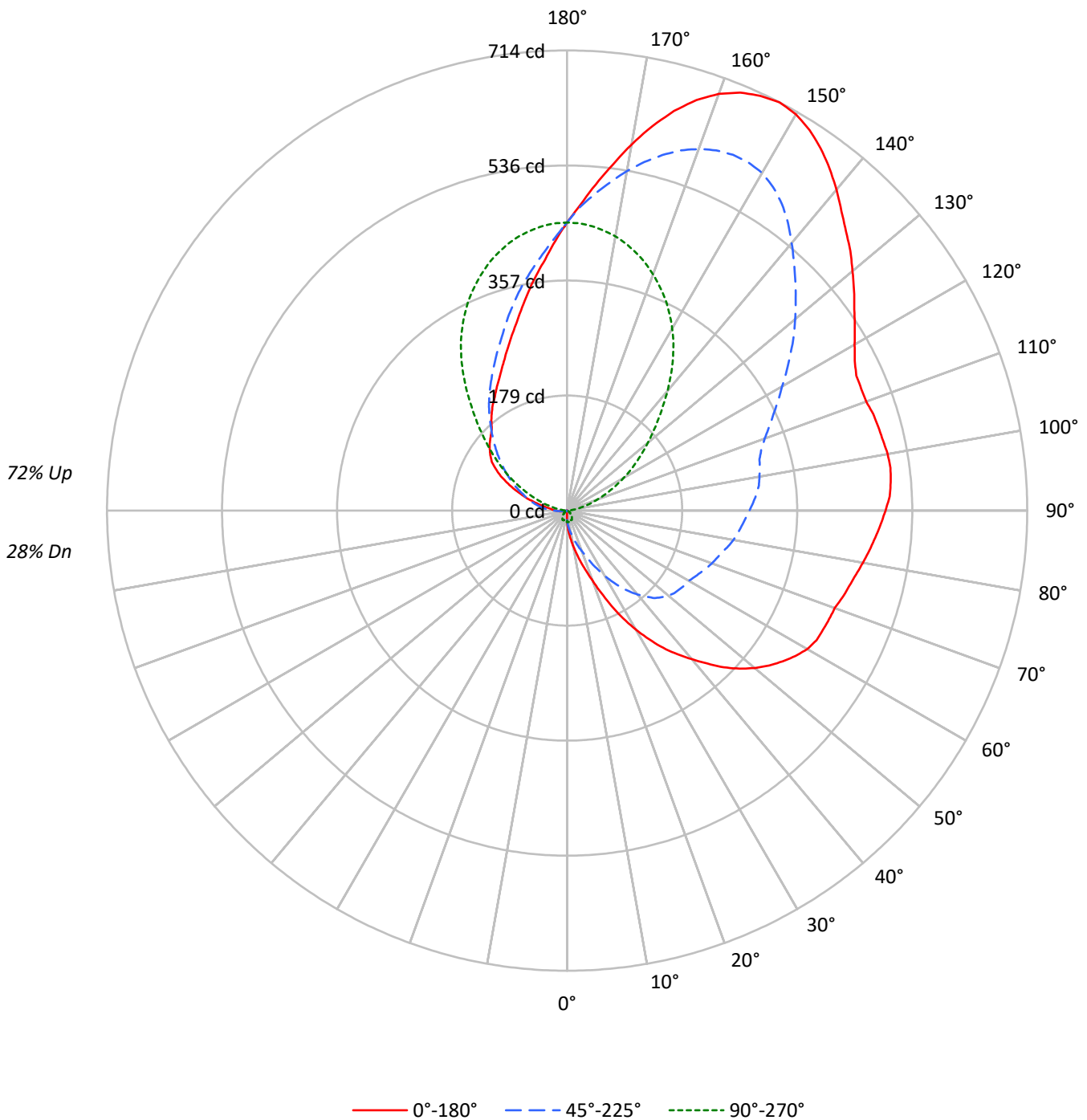
Lumens per Lamp: 3000 (1 lamp)  
Luminaire Lumens: 2245.6 lumens  
Efficiency: 74.9%  
Efficacy: 68.0 lumens/watt  
Spacing Criteria (0/90/45): 5.71 / 1.31 / 4.17  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 3.88' x H: 0.27')  
CIE Type: Semi-Indirect

Input Watts (W): 33  
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: 25 FT



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### Luminous Intensity Polar Plot





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**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	76	76	76	76	68	68	68	68	53	53	53	39	39	39	27	27	27	21
1	67	63	59	56	59	56	53	50	43	41	38	31	29	28	20	19	18	13
2	60	54	48	44	53	48	43	39	36	33	30	26	23	21	16	15	13	9
3	54	46	40	35	48	41	36	31	31	27	24	22	19	17	13	12	10	6
4	49	40	34	29	43	36	30	26	27	23	20	19	16	14	12	10	8	5
5	45	36	29	24	39	32	26	22	24	20	17	17	14	12	10	8	7	4
6	41	32	25	21	36	28	22	18	21	17	14	15	12	10	9	7	6	3
7	38	28	22	18	33	25	20	16	19	15	12	13	10	8	8	6	5	2
8	35	25	19	15	31	22	17	14	17	13	10	12	9	7	7	5	4	2
9	32	23	17	13	28	20	15	12	16	12	9	11	8	6	7	5	3	2
10	30	21	15	12	27	19	14	10	14	10	8	10	7	5	6	4	3	1

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	178	178	178
5°	399	183	0
10°	635	161	11
15°	937	143	11
20°	1338	136	0
25°	1935	130	0
30°	2627	118	0
35°	3362	100	0
40°	4124	84	0
45°	5052	68	0
50°	6064	45	0
55°	7186	30	0
60°	8524	23	0
65°	10015	16	0
70°	12046	16	0
75°	15424	17	34
80°	21354	9	275
85°	34018	10	850



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	1.7	0.1	0.1	0°	16	16	16	16	16	
10°-20°	8.0	0.4	0.3	5°	36	26	18	1	0	4
20°-30°	22.0	1.0	0.7	15°	83	51	16	1	1	25
30°-40°	44.5	2.0	1.5	25°	163	90	16	1	0	77
40°-50°	70.6	3.1	2.4	35°	260	145	13	1	0	164
50°-60°	94.1	4.2	3.1	45°	344	192	9	0	0	266
60°-70°	111.5	5.0	3.7	55°	408	213	4	0	0	366
70°-80°	127.2	5.7	4.2	65°	438	228	2	0	0	434
80°-90°	144.4	6.4	4.8	75°	453	249	2	1	1	480
90°-100°	163.1	7.3	5.4	85°	480	272	1	9	12	389
100°-110°	181.6	8.1	6.1	90°	494	283	1	21	17	271
110°-120°	204.4	9.1	6.8	95°	504	295	5	35	24	412
120°-130°	228.7	10.2	7.6	105°	500	309	30	59	55	529
130°-140°	241.6	10.8	8.1	115°	495	353	73	88	103	495
140°-150°	236.6	10.5	7.9	125°	544	423	131	123	145	489
150°-160°	196.6	8.8	6.6	135°	612	501	200	164	167	474
160°-170°	126.3	5.6	4.2	145°	686	581	286	211	201	429
170°-180°	42.8	1.9	1.4	155°	710	609	361	262	241	327
0°-30°	31.7	1.4	1.1	165°	642	571	414	328	302	183
0°-40°	76.2	3.4	2.5	175°	508	493	443	403	391	51
0°-60°	240.9	10.7	8.0	180°	447	447	447	447	447	
0°-90°	623.9	27.8	20.8							
90°-120°	549.1	24.5	18.3							
90°-150°	1256.0	55.9	41.9							
90°-180°	1622.0	72.2	54.1							
0°-180°	2245.6	100.0	74.9							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	16	16	16	16	16	16	16	16	16
2.5°	28	20	21	21	18	16	12	4	1
5°	36	28	26	23	18	9	1	1	0
7.5°	46	37	32	26	18	2	1	1	0
10°	57	48	37	28	17	2	1	1	1
12.5°	69	61	43	31	17	2	1	1	0
15°	83	75	51	33	16	2	1	1	1
17.5°	98	87	59	35	15	2	1	1	0
20°	116	103	67	37	16	1	1	1	0
22.5°	138	121	77	39	16	1	1	0	0
25°	163	142	90	41	16	1	1	1	0
27.5°	189	164	103	42	16	1	1	0	0
30°	213	187	117	44	15	1	1	0	0
32.5°	237	208	131	46	14	1	1	0	0
35°	260	228	145	47	13	1	1	0	0
37.5°	281	248	158	48	12	1	1	0	0
40°	301	266	170	51	11	1	1	0	0
42.5°	322	284	181	53	10	1	1	0	0
45°	344	303	192	55	9	1	0	0	0
47.5°	363	320	199	56	7	1	0	0	0
50°	380	335	205	57	6	1	0	0	0
52.5°	395	348	210	58	5	1	0	0	0
55°	408	358	213	60	4	1	0	0	0
57.5°	420	366	216	62	4	1	0	0	0
60°	430	372	218	65	3	1	0	0	0
62.5°	436	375	223	68	3	1	0	0	0
65°	438	376	228	70	2	1	0	0	0
67.5°	440	379	234	74	2	1	0	0	0
70°	442	383	239	77	2	1	0	0	0
72.5°	448	390	244	80	2	1	0	0	0
75°	453	396	249	83	2	1	1	0	1
77.5°	459	404	256	86	1	1	1	2	3
80°	466	410	262	89	1	1	1	5	6
82.5°	473	416	267	91	1	1	4	7	9
85°	480	423	272	94	1	1	9	10	12
87.5°	487	430	277	96	1	4	15	13	15
90°	494	437	283	98	1	7	21	17	17
92.5°	501	443	289	101	2	11	28	22	21
95°	504	448	295	105	5	16	35	28	24
97.5°	506	450	300	110	9	21	41	36	29
100°	505	452	303	117	15	27	47	45	36
102.5°	502	453	306	127	21	33	53	55	45
105°	500	451	309	138	30	40	59	66	55
107.5°	498	447	316	149	39	48	66	77	67
110°	494	446	326	162	49	55	72	88	78



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	494	449	339	176	61	64	80	99	91
115°	495	457	353	191	73	72	88	109	103
117.5°	503	469	369	206	87	82	97	117	116
120°	515	482	385	222	101	92	105	124	127
122.5°	529	496	404	238	116	103	114	131	138
125°	544	513	423	255	131	114	123	137	145
127.5°	561	530	443	272	147	126	133	144	151
130°	578	548	462	291	163	138	143	150	157
132.5°	596	565	481	310	181	150	153	157	162
135°	612	583	501	332	200	163	164	165	167
137.5°	630	602	521	354	220	177	175	174	173
140°	650	623	542	377	242	192	187	184	183
142.5°	669	645	563	400	264	207	199	192	192
145°	686	664	581	421	286	223	211	201	201
147.5°	700	679	595	440	307	240	223	211	209
150°	710	690	605	457	326	257	235	222	219
152.5°	714	694	609	469	344	274	248	234	229
155°	710	692	609	479	361	292	262	246	241
157.5°	702	685	605	486	376	310	276	259	254
160°	688	672	597	490	390	327	292	273	269
162.5°	668	654	586	492	403	345	310	289	285
165°	642	630	571	491	414	361	328	307	302
167.5°	611	602	554	488	424	376	347	328	323
170°	577	571	535	483	432	391	365	349	345
172.5°	541	540	514	477	438	406	384	371	368
175°	508	509	493	469	443	420	403	393	391
177.5°	475	479	472	460	446	434	424	418	419
180°	447	447	447	447	447	447	447	447	447

(END OF REPORT)