

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: P29448

Luminaire Tested: **SELDW**

Test Date: 03/27/17

Test Information

Test Method: LM-79-08
Report Number: P29448
Test Lab: INNOVATION CENTER-P2
Test Date: 03/27/17
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SURE-LITES
Catalog Number: SELDW
Description: WEATHER PROOF EMERGENCY LIGHT SINGLE HEAD POINTED TO ZERO POSITION THROUGH CORNER OF WEATHER SHIELD
Light Source: (1) SAMSUNG 4000K LED
LH351B
Ballast/Driver: (1) AGILENT DC POWER SUPPLY (6.0 VDC)
IN0011

Summary

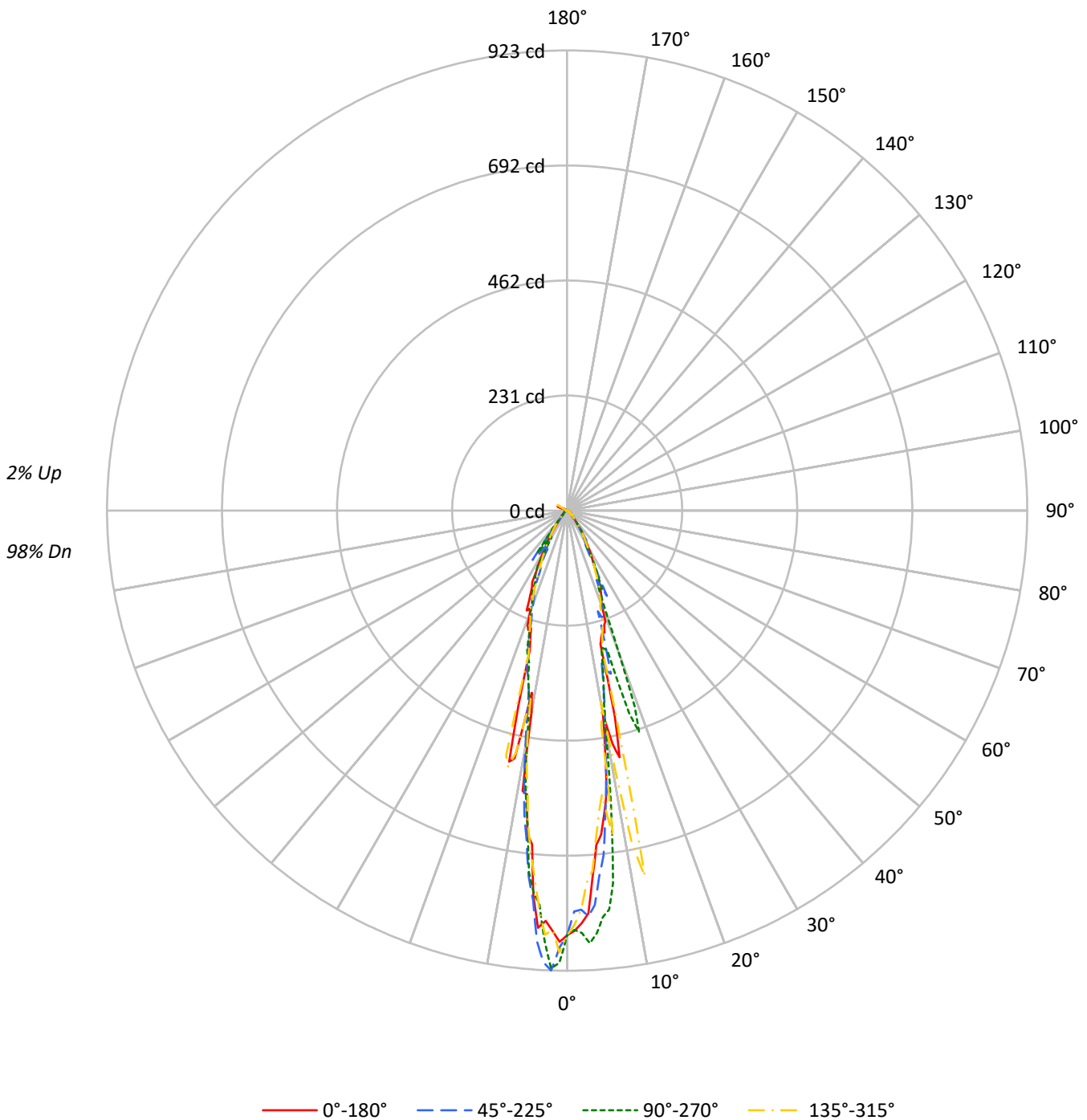
Lumens per Lamp: N/A
Luminaire Lumens: 282.3 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.35 / 0.44
Luminous Opening: Circular (Dia: 0.27' x H: 0')
CIE Type: Direct

Input Watts (W): 3.68
Input Voltage (V): 6.00
Input Current (A_{in}): 0.607
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): DC
Stabilization Time: 0.5 HR
Operation Time: 4 HR
Ambient Temperature (°C): 24.7
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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	98
1	113	111	108	106	111	108	106	104	104	102	101	100	99	97	96	95	94	93
2	108	103	100	96	106	102	98	95	98	95	93	95	93	91	92	90	89	87
3	103	97	92	89	101	96	91	88	93	89	86	90	87	85	88	85	83	82
4	99	92	86	83	97	90	86	82	88	84	81	86	83	80	84	81	79	77
5	94	87	81	77	93	86	81	77	84	79	76	82	78	75	80	77	75	73
6	90	82	77	73	89	81	76	73	80	75	72	78	74	71	77	74	71	70
7	87	78	73	69	85	78	73	69	76	72	68	75	71	68	74	70	68	66
8	83	75	69	66	82	74	69	66	73	68	65	72	68	65	71	67	65	63
9	80	72	66	63	79	71	66	63	70	66	62	69	65	62	68	65	62	61
10	77	69	63	60	76	68	63	60	67	63	60	66	62	59	66	62	59	58

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	159190	159190	159190	159190
5°	126226	153609	145357	144231
10°	78736	83479	77977	86705
15°	51067	55516	56096	58804
20°	40960	59451	43346	42352
25°	29068	31130	34428	30718
30°	18123	15965	20280	13592
35°	11633	11405	11633	23722
40°	5610	5122	5610	8537
45°	3699	3435	2907	4228
50°	2616	2907	3197	2616
55°	2280	2280	2280	2606
60°	1868	2242	2242	2242
65°	1768	2211	1768	1768
70°	2731	1639	1639	2731
75°	1444	2166	2166	1444
80°	1076	1076	1076	1076
85°	0	0	2144	2144



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.0	22.0
10°-20°	90.3	32.0
20°-30°	65.6	23.2
30°-40°	34.4	12.2
40°-50°	11.8	4.2
50°-60°	6.8	2.4
60°-70°	4.4	1.5
70°-80°	2.2	0.8
80°-90°	0.6	0.2
90°-100°	0.5	0.2
100°-110°	0.7	0.2
110°-120°	2.2	0.8
120°-130°	0.9	0.3
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°	217.8	77.2
0°-40°	252.2	89.3
0°-60°	270.8	95.9
0°-90°	278.0	98.5
90°-120°	3.4	1.2
90°-150°	4.3	1.5
90°-180°	4.0	1.4
0°-180°	282.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	852	852	852	852	852	
5°	673	819	775	769	673	58
15°	264	287	290	304	264	87
25°	141	151	167	149	141	64
35°	51	50	51	104	51	32
45°	14	13	11	16	14	11
55°	7	7	7	8	7	6
65°	4	5	4	4	4	4
75°	2	3	3	2	2	2
85°	0	0	1	1	0	0
90°	0	0	1	1	0	0
95°	0	0	1	1	0	0
105°	0	0	2	2	0	0
115°	0	0	13	5	0	0
125°	0	0	1	2	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	852	852	852	852	852	852	852	852	852	852	852
1°	843	823	804	841	841	820	831	855	865	878	876
2°	828	811	801	830	848	821	801	819	843	903	923
3°	809	793	815	828	869	786	748	778	824	844	907
4°	734	793	793	829	850	744	725	771	839	813	866
5°	673	746	737	799	819	728	662	681	775	778	785
6°	653	677	696	743	805	688	609	581	673	687	739
7°	612	615	625	693	753	629	574	556	654	638	667
8°	570	557	560	610	648	590	662	550	575	598	615
9°	485	504	498	543	543	583	441	448	570	548	552
10°	415	411	435	486	440	483	390	476	411	472	481
11°	476	362	393	364	384	399	676	589	372	398	419
12°	506	335	345	293	352	517	750	487	508	347	370
13°	424	315	307	313	315	579	494	293	517	295	346
14°	276	313	332	296	283	520	307	276	405	256	330
15°	264	328	339	269	287	330	272	271	290	315	309
16°	255	327	270	233	292	262	256	262	269	372	281
17°	256	252	211	236	425	222	242	254	247	402	258
18°	241	196	226	241	467	204	230	241	252	375	233
19°	235	188	224	250	415	195	203	220	244	281	217
20°	206	184	203	247	299	198	196	209	218	201	200
21°	191	182	183	235	212	189	181	199	211	206	185
22°	183	175	185	179	168	162	174	186	216	207	179
23°	171	166	151	168	165	162	164	170	195	182	161
24°	158	160	161	139	172	156	149	164	178	184	135
25°	141	144	189	120	151	149	134	158	167	170	121
26°	125	140	134	107	136	123	124	146	159	135	114
27°	113	132	95	90	120	106	112	131	136	124	87
28°	105	114	78	80	97	95	100	117	123	106	89
29°	95	102	77	85	74	95	91	99	108	93	71
30°	84	94	70	119	74	81	78	88	94	88	73
32.5°	66	69	77	172	57	56	63	67	71	69	100
35°	51	47	43	49	50	41	48	53	51	46	121
37.5°	35	31	39	35	33	27	37	39	34	29	32
40°	23	23	34	27	21	16	26	29	23	21	24
42.5°	13	12	17	20	15	13	19	22	17	15	16
45°	14	12	13	14	13	12	11	13	11	13	15
47.5°	12	11	13	12	13	13	13	14	14	13	14
50°	9	8	11	9	10	9	11	11	11	10	10
52.5°	8	7	10	8	8	7	8	9	8	8	8
55°	7	6	9	7	7	7	7	8	7	7	7
57.5°	7	6	7	7	7	6	7	7	7	7	7
60°	5	5	6	6	6	5	6	6	6	5	6
62.5°	5	4	5	5	6	5	5	5	5	5	5
65°	4	4	4	4	5	4	4	5	4	4	4



TEST NUMBER: P29448
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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	4	3	4	4	4	3	4	4	4	4	4
70°	5	4	4	3	3	3	3	3	3	3	3
72.5°	3	2	2	2	3	2	3	3	3	2	2
75°	2	2	2	2	3	3	2	3	3	3	2
77.5°	1	1	1	1	1	1	1	2	2	1	1
80°	1	1	1	1	1	1	1	1	1	1	1
82.5°	0	0	1	0	1	0	0	1	1	1	1
85°	0	0	0	0	0	0	0	1	1	1	1
87.5°	0	0	0	0	0	0	0	1	1	0	0
90°	0	0	0	0	0	0	0	0	1	1	0
92.5°	0	0	0	0	0	0	0	1	1	1	0
95°	0	0	0	0	0	0	0	1	1	0	0
97.5°	0	0	0	0	0	0	0	1	1	1	0
100°	0	0	0	0	0	0	0	1	1	0	0
102.5°	0	0	0	0	0	0	0	1	1	0	0
105°	0	0	0	0	0	0	0	1	2	0	0
107.5°	0	0	0	0	0	0	0	1	3	1	1
110°	0	0	0	0	0	0	0	1	5	1	1
112.5°	0	0	0	0	0	0	0	1	21	1	3
115°	0	0	0	0	0	0	0	0	13	1	2
117.5°	0	0	0	0	0	0	0	0	9	1	2
120°	0	0	0	0	0	0	0	0	5	1	2
122.5°	0	0	0	0	0	0	0	0	2	1	1
125°	0	0	0	0	0	0	0	0	1	0	1
127.5°	0	0	0	0	0	0	0	0	0	0	1
130°	0	0	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: P29448
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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	852	852	852	852	852	852
1°	895	907	910	886	862	843
2°	912	919	872	841	838	828
3°	910	865	837	852	803	809
4°	886	793	791	801	734	734
5°	840	769	768	744	704	673
6°	796	730	710	691	653	653
7°	732	645	648	640	569	612
8°	654	591	577	570	537	570
9°	599	533	534	520	469	485
10°	526	457	481	456	414	415
11°	473	393	412	383	563	476
12°	420	370	352	498	579	506
13°	398	348	325	527	411	424
14°	366	315	309	506	326	276
15°	333	304	298	300	309	264
16°	320	291	298	274	282	255
17°	291	262	323	258	258	256
18°	272	240	353	241	250	241
19°	262	227	388	226	224	235
20°	251	213	320	222	208	206
21°	234	196	211	194	191	191
22°	215	188	203	180	173	183
23°	186	181	189	162	157	171
24°	175	159	173	144	143	158
25°	154	149	152	130	133	141
26°	137	148	138	122	123	125
27°	116	136	125	111	112	113
28°	105	124	114	101	102	105
29°	91	86	105	93	92	95
30°	90	63	91	84	84	84
32.5°	66	60	72	66	67	66
35°	49	104	56	52	52	51
37.5°	40	54	38	39	39	35
40°	38	35	27	31	30	23
42.5°	18	19	16	18	19	13
45°	18	16	15	15	16	14
47.5°	13	13	12	13	13	12
50°	10	9	9	10	10	9
52.5°	8	9	9	9	9	8
55°	8	8	8	8	8	7
57.5°	7	7	7	8	7	7
60°	6	6	5	6	6	5
62.5°	5	5	5	5	5	5
65°	4	4	4	5	4	4



TEST NUMBER: P29448
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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	3	3	4	4	4	4
70°	3	5	4	4	5	5
72.5°	2	2	3	3	3	3
75°	3	2	2	2	2	2
77.5°	1	1	1	1	1	1
80°	1	1	1	1	1	1
82.5°	1	1	1	1	1	0
85°	1	1	1	1	1	0
87.5°	1	0	1	1	0	0
90°	1	1	1	1	0	0
92.5°	1	1	1	1	0	0
95°	2	1	1	1	0	0
97.5°	2	1	1	1	0	0
100°	3	1	1	1	0	0
102.5°	2	1	1	1	0	0
105°	2	2	1	1	0	0
107.5°	1	3	1	1	0	0
110°	1	6	1	2	0	0
112.5°	1	7	3	3	0	0
115°	6	5	3	7	0	0
117.5°	2	3	5	12	0	0
120°	2	3	11	22	0	0
122.5°	3	3	4	9	0	0
125°	1	2	3	5	0	0
127.5°	1	0	0	2	0	0
130°	0	0	0	1	0	0
132.5°	0	0	0	0	0	0
135°	0	0	0	0	0	0
137.5°	0	0	0	0	0	0
140°	0	0	0	0	0	0
142.5°	0	0	0	0	0	0
145°	0	0	0	0	0	0
147.5°	0	0	0	0	0	0
150°	0	0	0	0	0	0
152.5°	0	0	0	0	0	0
155°	0	0	0	0	0	0
157.5°	0	0	0	0	0	0
160°	0	0	0	0	0	0
162.5°	0	0	0	0	0	0
165°	0	0	0	0	0	0
167.5°	0	0	0	0	0	0
170°	0	0	0	0	0	0
172.5°	0	0	0	0	0	0
175°	0	0	0	0	0	0
177.5°	0	0	0	0	0	0



TEST NUMBER: P29448
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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	0	0	0	0	0	0

(END OF REPORT)