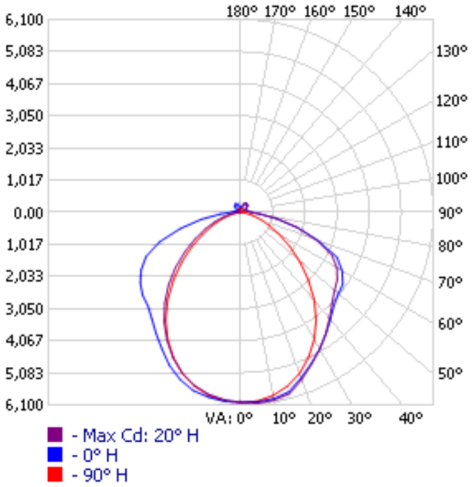
OUTDOOR PHOTOMETRIC REPORT
CATALOG: L-3-18LM-SA-850-1-U1-CP

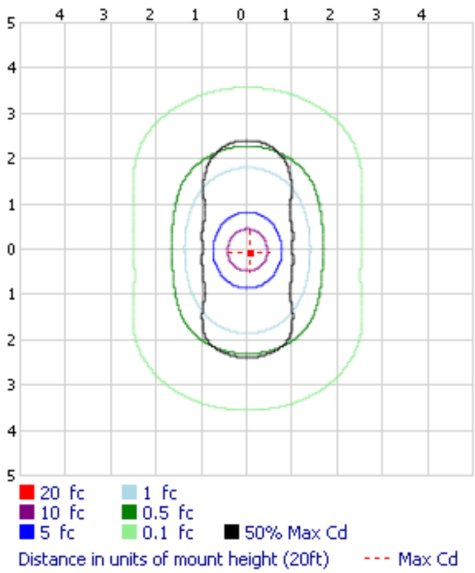
Manufacturer:	LUX Dynamics
Test #:	L012512505
Test Lab:	LIGHT LABORATORY, INC. (www.lightlaboratory.com)
Catalog:	L-3-18lm-SA-850-1-U1-CP
Description:	LED Luminaire
Lamp Output:	Total luminaire Lumens: 17926.6, absolute photometry *
Ballast / Driver:	OTi 50/120-277/1A4 DIM-1 L G2 / (3)
Input Wattage:	135.35
Luminous Opening:	Rectangle (L: 14.52", W: 12")
Max Cd:	6,064.0 at Horizontal: 20°, Vertical: 5°
Roadway Class:	VERY SHORT, TYPE III

No Photo Available

Polar Candela



Isoilluminance



*Test based on absolute photometry where lamp lumens=lumens total.
*Cutoff Classification and efficiency cannot be properly calculated for absolute photometry.

Visual Photometric Tool 1.2.46 copyright 2025, Acuity Brands Lighting.
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Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	4,601.5	25.7%
0-40	7,385.6	41.2%
0-60	12,810.9	71.5%
60-90	4,057.4	22.6%
70-100	2,040.2	11.4%
90-120	428.4	2.4%
0-90	16,868.3	94.1%
90-180	1,058.3	5.9%
0-180	17,926.6	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	569.6	3.2%	90-100	165.1	0.9%
10-20	1,627.9	9.1%	100-110	134.1	0.7%
20-30	2,404.0	13.4%	110-120	129.2	0.7%
30-40	2,784.1	15.5%	120-130	155.9	0.9%
40-50	2,810.2	15.7%	130-140	168.7	0.9%
50-60	2,615.1	14.6%	140-150	143.1	0.8%
60-70	2,182.3	12.2%	150-160	100.3	0.6%
70-80	1,372.1	7.7%	160-170	49.2	0.3%
80-90	503.0	2.8%	170-180	12.8	0.1%

Roadway Summary

Distribution:	TYPE III, VERY SHORT	
Max Cd, 90 Deg Vert:		332.0
Max Cd, 80 to <90 Deg:		1,295.0
	Lumens	% Lamp
Downward Street Side:	8,433.0	47%
Downward House Side:	8,442.4	47.1%
Downward Total:	16,875.5	94.1%
Upward Street Side:	557.9	3.1%
Upward House Side:	500.2	2.8%
Upward Total:	1,058.1	5.9%
Total Lumens:	17,933.6	100%

LCS Table

BUG Rating	**B3 - U4 - G3**	
Forward Light	Lumens	Lumens %
Low(0-30):	2,311.6	12.9%
Medium(30-60):	4,112.4	22.9%
High(60-80):	1,767.5	9.9%
Very High(80-90):	241.6	1.3%
Back Light		
Low(0-30):	2,292.2	12.8%
Medium(30-60):	4,100.6	22.9%
High(60-80):	1,788.0	10%
Very High(80-90):	261.5	1.5%
Uplight		
Low(90-100):	165.0	0.9%
High(100-180):	893.1	5%
Trapped Light:	0.000	0%

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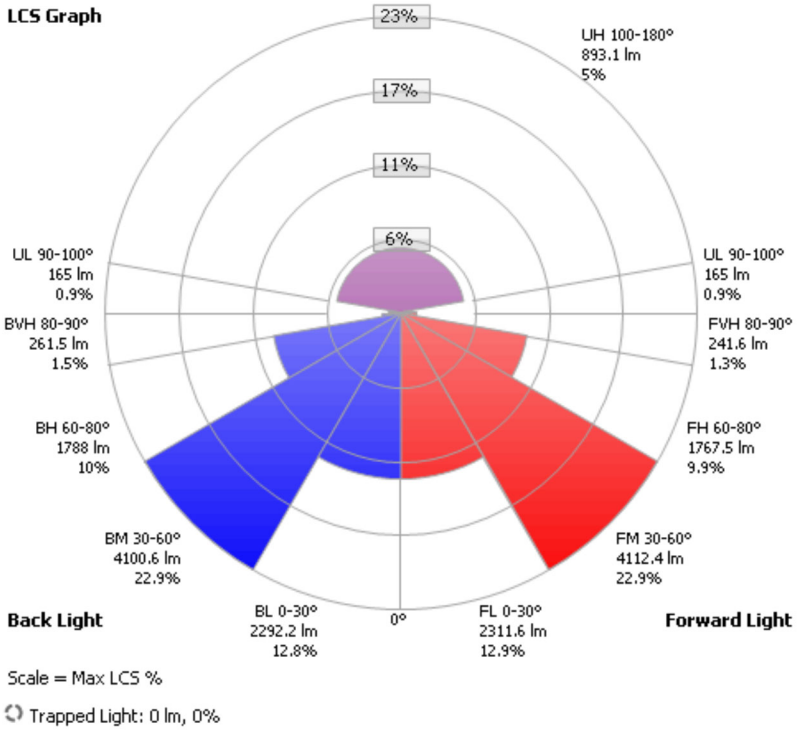

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Candela Table - Type C

	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	6018	6018	6018	6018	6018	6018	6018	6018	6018	6018	6018	6018	6018	6018	6018	6018	6018	6018	6018
5	6016	6044	**6064**	6052	6050	5993	5983	5998	6005	5996	5988	5956	5925	5920	5984	5989	6000	6002	6005
10	5993	6024	6037	6011	5988	5914	5900	5909	5905	5887	5874	5853	5830	5832	5909	5916	5929	5939	5941
15	5881	5920	5949	5933	5910	5816	5754	5741	5728	5696	5689	5678	5672	5687	5773	5793	5822	5840	5842
20	5574	5601	5633	5647	5681	5629	5557	5494	5466	5428	5419	5424	5436	5481	5589	5614	5634	5634	5633
25	5277	5289	5303	5287	5294	5279	5265	5175	5112	5072	5062	5083	5127	5207	5295	5316	5346	5350	5352
30	5000	4995	4995	4941	4893	4816	4840	4794	4698	4642	4634	4682	4764	4825	4934	4966	4998	5001	5004
35	4697	4694	4685	4614	4514	4363	4329	4327	4207	4156	4156	4241	4328	4405	4523	4593	4660	4686	4689
40	4413	4411	4374	4274	4128	3954	3807	3793	3669	3614	3630	3753	3852	3964	4127	4235	4340	4391	4396
45	4170	4152	4084	3954	3756	3543	3321	3218	3093	3027	3076	3240	3352	3527	3745	3913	4050	4145	4170
50	4030	3994	3868	3669	3412	3134	2863	2651	2520	2449	2526	2702	2866	3134	3394	3634	3854	4021	4068
55	3945	3894	3725	3441	3095	2758	2413	2129	1972	1904	1984	2160	2410	2757	3106	3430	3675	3851	3895
60	3704	3670	3514	3230	2842	2414	1982	1656	1474	1413	1490	1672	1990	2419	2819	3178	3424	3608	3652
65	3356	3318	3175	2921	2558	2089	1602	1233	1047	1004	1065	1246	1606	2082	2524	2852	3092	3278	3321
70	2591	2587	2537	2429	2157	1761	1262	884	711	680	715	892	1248	1722	2151	2442	2619	2725	2752
75	1859	1873	1854	1751	1569	1289	922	590	443	410	446	588	922	1322	1659	1826	1935	1988	1994
80	1145	1157	1174	1150	1034	801	551	355	242	214	243	354	585	842	1117	1254	1294	1295	1284
85	617	620	618	598	523	386	245	146	98	81	102	159	277	453	611	672	678	670	665
90	332	331	323	300	246	152	73	37	26	22	27	36	73	144	222	279	308	314	314
95	275	277	272	245	190	111	51	32	28	26	28	32	51	103	175	227	251	252	252
100	245	244	235	210	171	117	71	47	43	33	40	46	70	109	154	189	208	211	211
105	198	197	194	183	161	124	85	72	61	40	53	66	83	113	145	161	167	166	166
110	173	171	164	157	143	120	108	106	79	46	63	97	97	112	131	141	143	145	145
115	155	153	149	143	136	144	156	129	96	54	75	105	138	131	131	134	135	135	135
120	148	147	149	153	178	195	185	154	109	63	87	121	161	186	168	144	137	134	134
125	172	176	193	219	227	249	196	168	119	73	91	118	172	225	211	205	177	156	150
130	240	240	243	251	285	224	215	174	126	84	93	138	189	203	253	249	243	246	232
135	275	288	315	306	245	253	217	176	124	94	94	141	151	237	231	246	299	301	289
140	303	290	261	292	278	263	209	174	124	106	88	131	189	225	271	273	240	244	246
145	328	326	310	309	289	248	211	167	136	114	96	114	188	223	249	296	301	307	303
150	333	335	325	304	271	236	197	151	141	122	105	119	163	224	255	230	285	322	324
155	314	313	301	280	253	221	179	141	144	126	111	124	130	200	242	272	287	281	275
160	286	284	275	254	225	194	157	157	148	132	118	123	144	145	193	245	265	274	276
165	228	226	222	204	185	160	156	153	147	135	123	122	131	155	157	163	179	190	195
170	163	163	160	155	153	153	151	148	141	134	125	118	120	125	133	145	155	158	162
175	146	144	143	142	140	139	137	132	127	124	121	117	115	112	109	107	108	109	110
180	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128