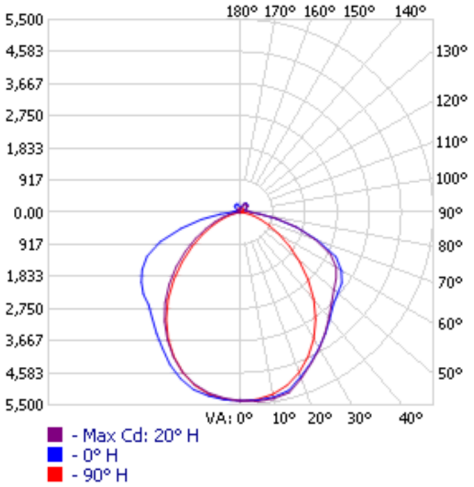
OUTDOOR PHOTOMETRIC REPORT
CATALOG: L-3-16LM-SA-850-1-U1-CP

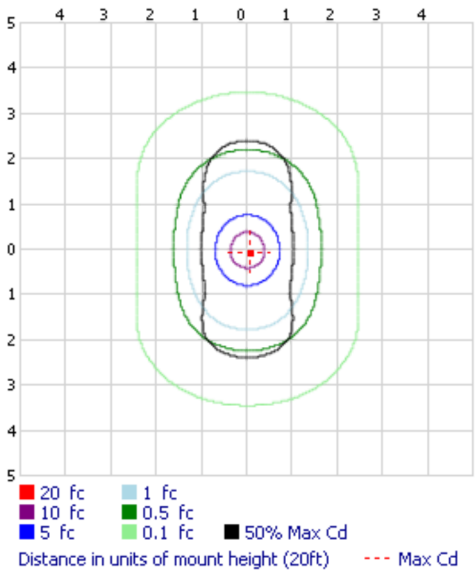
Manufacturer:	LUX Dynamics
Test #:	L012512506
Test Lab:	LIGHT LABORATORY, INC. (www.lightlaboratory.com)
Catalog:	L-3-16lm-SA-850-1-U1-CP
Description:	LED Luminaire
Lamp Output:	Total luminaire Lumens: 16041.4, absolute photometry *
Ballast / Driver:	OTi 50/120-277/1A4 DIM-1 L G2 / (3)
Input Wattage:	119.4
Luminous Opening:	Rectangle (L: 14.52", W: 12")
Max Cd:	5,417.0 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.

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Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	4,122.2	25.7%
0-40	6,618.2	41.3%
0-60	11,474.9	71.5%
60-90	3,617.0	22.5%
70-100	1,817.1	11.3%
90-120	384.9	2.4%
0-90	15,091.8	94.1%
90-180	949.5	5.9%
0-180	16,041.4	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	509.6	3.2%	90-100	148.1	0.9%
10-20	1,458.2	9.1%	100-110	120.0	0.7%
20-30	2,154.5	13.4%	110-120	116.7	0.7%
30-40	2,496.0	15.6%	120-130	140.9	0.9%
40-50	2,518.0	15.7%	130-140	152.4	0.9%
50-60	2,338.6	14.6%	140-150	126.1	0.8%
60-70	1,948.0	12.1%	150-160	89.5	0.6%
70-80	1,222.8	7.6%	160-170	44.5	0.3%
80-90	446.2	2.8%	170-180	11.4	0.1%

Roadway Summary

Distribution:	TYPE III, VERY SHORT	
Max Cd, 90 Deg Vert:		288.0
Max Cd, 80 to <90 Deg:		1,149.0
	Lumens	% Lamp
Downward Street Side:	7,542.5	47%
Downward House Side:	7,555.7	47.1%
Downward Total:	15,098.3	94.1%
Upward Street Side:	500.9	3.1%
Upward House Side:	448.5	2.8%
Upward Total:	949.4	5.9%
Total Lumens:	16,047.7	100%

LCS Table

BUG Rating	**B3 - U4 - G3**	
Forward Light	Lumens	Lumens %
Low(0-30):	2,070.1	12.9%
Medium(30-60):	3,681.8	23%
High(60-80):	1,576.5	9.8%
Very High(80-90):	214.1	1.3%
Back Light		
Low(0-30):	2,054.2	12.8%
Medium(30-60):	3,674.1	22.9%
High(60-80):	1,595.3	9.9%
Very High(80-90):	232.1	1.4%
Uplight		
Low(90-100):	148.1	0.9%
High(100-180):	801.3	5%
Trapped Light:	0.000	0%

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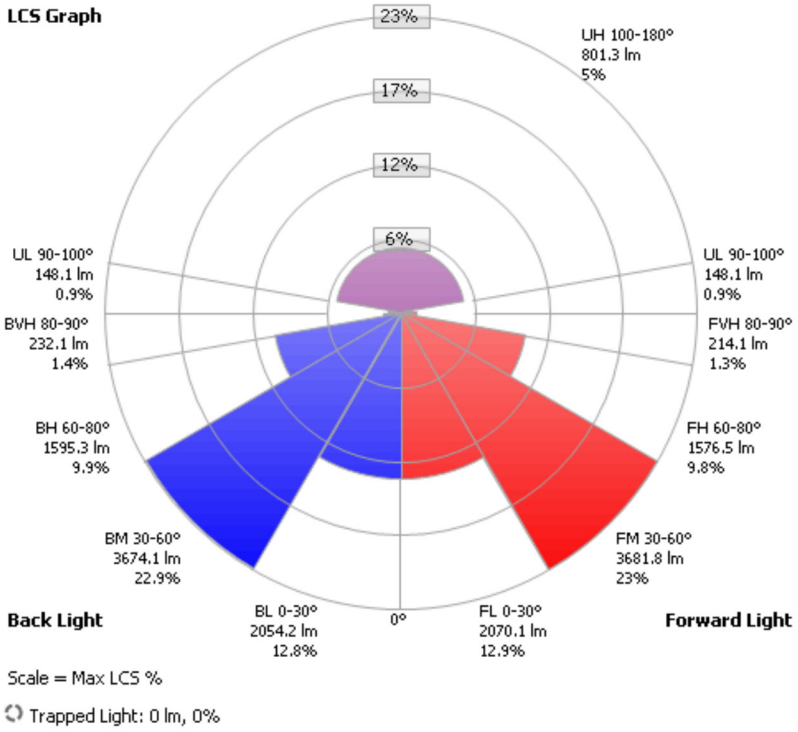

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Candela Table - Type C

	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	5380	5380	5380	5380	5380	5380	5380	5380	5380	5380	5380	5380	5380	5380	5380	5380	5380	5380	5380
5	5376	5402	**5417**	5411	5406	5359	5348	5362	5371	5360	5355	5326	5297	5294	5351	5357	5365	5369	5370
10	5360	5389	5398	5380	5360	5294	5282	5293	5288	5272	5261	5243	5224	5228	5293	5299	5309	5318	5319
15	5266	5299	5325	5313	5293	5202	5154	5142	5127	5109	5093	5087	5085	5097	5172	5192	5217	5234	5237
20	4993	5022	5043	5067	5092	5037	4974	4919	4896	4862	4855	4862	4871	4915	5015	5031	5048	5051	5050
25	4735	4740	4753	4737	4743	4726	4715	4634	4580	4543	4538	4557	4601	4668	4745	4765	4793	4799	4797
30	4469	4477	4481	4430	4384	4318	4331	4299	4212	4166	4157	4200	4269	4327	4425	4453	4477	4488	4484
35	4210	4206	4200	4136	4045	3915	3883	3881	3771	3724	3726	3803	3883	3954	4058	4119	4175	4199	4209
40	3956	3953	3918	3827	3705	3538	3410	3396	3282	3239	3254	3370	3454	3550	3695	3806	3900	3939	3944
45	3734	3716	3662	3541	3358	3170	2975	2881	2770	2713	2765	2898	3000	3171	3363	3504	3627	3717	3734
50	3608	3574	3464	3282	3052	2803	2564	2374	2258	2195	2264	2418	2568	2811	3039	3264	3460	3595	3640
55	3522	3480	3321	3064	2778	2465	2156	1904	1765	1705	1774	1940	2157	2469	2781	3068	3280	3434	3476
60	3310	3275	3142	2891	2524	2155	1772	1474	1322	1271	1338	1497	1780	2162	2529	2827	3050	3222	3258
65	2996	2958	2826	2606	2280	1864	1418	1104	941	900	953	1106	1433	1859	2237	2556	2767	2921	2962
70	2316	2310	2260	2162	1921	1568	1126	799	659	601	643	797	1113	1535	1913	2179	2341	2438	2457
75	1658	1668	1650	1563	1391	1151	821	530	395	369	400	534	810	1165	1473	1627	1727	1770	1767
80	1023	1032	1044	1018	919	716	485	317	217	192	218	322	511	750	993	1118	1147	1149	1140
85	546	546	543	526	460	337	216	134	89	74	90	141	248	411	541	595	598	593	590
90	288	287	283	265	218	142	66	33	24	20	24	33	64	128	200	244	265	270	271
95	255	254	248	223	177	99	46	29	25	23	25	29	46	94	158	204	227	229	229
100	220	218	211	190	152	106	64	42	38	30	36	41	62	98	138	169	185	186	186
105	179	177	174	164	144	112	75	62	55	36	48	58	73	101	130	145	149	149	149
110	156	154	147	140	128	106	95	100	71	41	56	89	86	99	117	127	131	132	132
115	140	138	134	129	122	127	143	121	86	48	67	105	125	118	118	122	123	123	123
120	134	133	134	137	156	190	163	141	97	56	75	114	153	162	153	131	125	122	122
125	152	157	168	187	228	209	175	149	106	63	77	101	163	203	186	186	161	141	136
130	218	231	258	260	237	200	188	153	110	74	82	122	169	212	230	231	203	210	203
135	280	276	268	264	217	220	186	157	112	81	84	115	137	221	238	250	256	259	255
140	269	254	229	262	242	220	184	159	111	91	79	104	170	177	251	235	268	269	265
145	297	292	276	272	252	215	189	147	121	98	83	100	165	206	196	268	267	245	239
150	301	299	286	262	237	212	182	133	126	108	93	94	129	203	235	213	222	252	264
155	283	279	267	251	229	200	166	126	129	113	101	103	126	161	222	251	263	267	264
160	259	257	248	230	207	177	141	140	133	119	108	113	113	145	163	206	235	248	251
165	208	204	204	187	168	144	140	138	133	123	111	112	118	123	146	167	174	179	182
170	147	146	144	139	138	137	136	133	128	121	114	109	110	114	119	124	124	124	127
175	131	130	129	127	126	125	123	119	115	111	109	106	103	100	98	97	97	98	98
180	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115