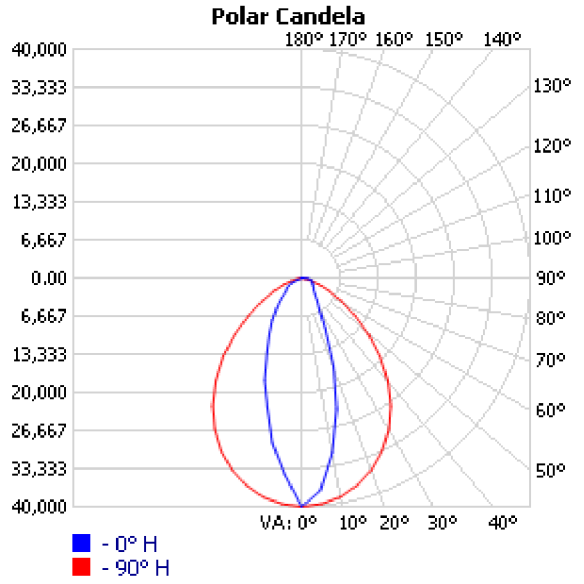
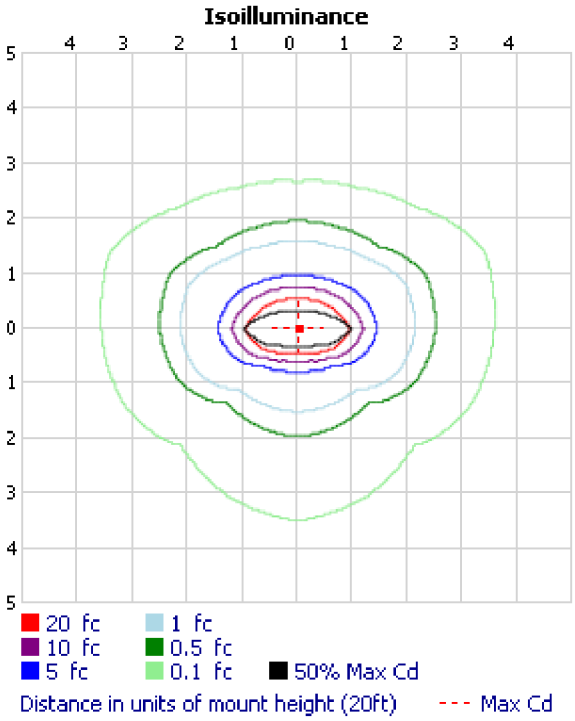
OUTDOOR PHOTOMETRIC REPORT
CATALOG: L-2-SA-850-4-U10-N

Manufacturer:	LUX Dynamics
Test #:	L092511001_modified to 5000K, 2ft to 4ft, 1bar to 2bar
Test Lab:	LIGHT LABORATORY, INC. (www.lightlaboratory.com)
Catalog:	L-2-SA-850-4-U10-N
Description:	L series, 2 bar, SA Configuration, 4 ft length, 5000K, U10 Driver, Narrow Optic, 120VAC
Lamp Output:	Total luminaire Lumens: 46120, absolute photometry *
Ballast / Driver:	XI085C240V054BST1 (qty 4)
Input Wattage:	307.4
Luminous Opening:	Rectangle (L: 11.52", W: 44.52")
Nema Type:	7 X 5
Max Cd:	39,961.7 at Horizontal: 0°, Vertical: 0°





*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	20,856.3	45.2%
0-40	29,281.0	63.5%
0-60	40,933.5	88.8%
60-90	4,913.2	10.7%
70-100	2,002.8	4.3%
90-120	247.6	0.5%
0-90	45,846.7	99.4%
90-180	273.4	0.6%
0-180	46,120.0	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	3,432.6	7.4%	90-100	134.0	0.3%
10-20	8,102.6	17.6%	100-110	73.8	0.2%
20-30	9,321.1	20.2%	110-120	39.8	0.1%
30-40	8,424.7	18.3%	120-130	25.8	0.1%
40-50	6,795.8	14.7%	130-140	0.000	0%
50-60	4,856.7	10.5%	140-150	0.000	0%
60-70	3,044.4	6.6%	150-160	0.000	0%
70-80	1,433.0	3.1%	160-170	0.000	0%
80-90	435.8	0.9%	170-180	0.000	0%

LCS Table

BUG Rating	**B5 - U3 - G3**	
Forward Light	Lumens	Lumens %
Low(0-30):	10,469.1	22.7%
Medium(30-60):	8,991.5	19.5%
High(60-80):	2,226.3	4.8%
Very High(80-90):	355.5	0.8%
Back Light		
Low(0-30):	10,435.4	22.6%
Medium(30-60):	11,105.5	24.1%
High(60-80):	2,253.6	4.9%
Very High(80-90):	80.4	0.2%
Uplight		
Low(90-100):	134.0	0.3%
High(100-180):	139.3	0.3%
Trapped Light:	0.000	0%

Flood Summary

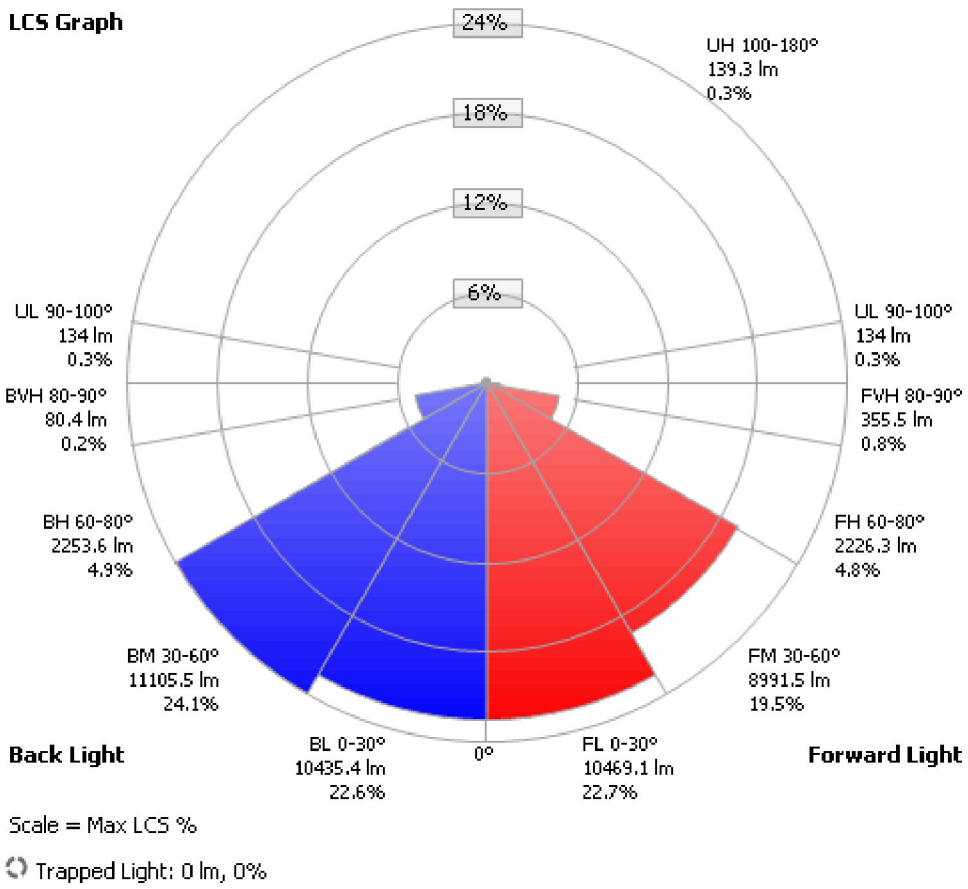
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	87.9%	40,526.2	136.6	86.9
Beam (50%):	44.1%	20,333.9	88.7	36.4
Total:	99.6%	45,916.0		

Illuminance at a Distance

	Center Beam	Beam Spread(ft)		Field Spread(ft)	
Height(ft)	Footcandle	Horizontal	Vertical	Horizontal	Vertical
4.00	2,497.60 fc	7.8	2.6	20.1	7.6
8.00	624.40 fc	15.6	5.3	40.2	15.2
12.00	277.51 fc	23.5	7.9	60.3	22.7
16.00	156.10 fc	31.3	10.5	80.4	30.3
20.00	99.90 fc	39.1	13.2	100.5	37.9
		Beam Angle		Field Angle	
		88.7°	36.4°	136.6°	86.9°

Average Luminance (Cd/m2)

	0	22.5	45	67.5	90	112.5	135	157.5	180
0	120773	120773	120773	120773	120773	120773	120773	120773	120773
45	12664	13708	18793	50641	83125	55890	34815	25590	21645
55	12780	12699	14166	37374	59678	45351	26383	16859	16437
65	14863	13308	11781	28089	37907	36925	17753	14426	13526
75	22176	18569	12780	19103	21953	25694	10554	891	401
85	33720	28828	19836	15207	9918	2909	1190	926	926



Scale = Max LCS %

Trapped Light: 0 lm, 0%

UGR Table (Corrected)

Ceiling Cavity Reflectance:		70%	70%	50%	50%	30%	70%	70%	50%	50%	30%
Wall Cavity Reflectance:		50%	30%	50%	30%	30%	50%	30%	50%	30%	30%
Floor Cavity Reflectance:		20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
Room Dimensions		**Viewed Crosswise**					**Viewed Endwise**				
Room Width	Room Length										
2H	2H	17.1	18.4	17.4	18.8	19.1	25.4	26.7	25.7	27.1	27.4
	3H	19.9	21.1	20.3	21.4	21.8	26.6	27.8	27.0	28.1	28.5
	4H	21.5	22.6	21.9	23.0	23.4	26.9	28.1	27.3	28.4	28.8
	6H	23.1	24.1	23.5	24.5	24.9	27.1	28.1	27.5	28.5	28.9
	8H	23.7	24.7	24.2	25.1	25.6	27.1	28.1	27.5	28.5	28.9
	12H	24.3	25.3	24.7	25.7	26.1	27.1	28.1	27.5	28.4	28.9
4H	2H	17.7	18.8	18.1	19.2	19.6	25.3	26.4	25.7	26.8	27.2
	3H	20.7	21.6	21.1	22.0	22.5	26.7	27.6	27.1	28.1	28.5
	4H	22.5	23.3	22.9	23.8	24.2	27.2	28.0	27.6	28.5	28.9
	6H	24.3	25.0	24.7	25.5	25.9	27.5	28.2	27.9	28.7	29.1
	8H	25.0	25.7	25.5	26.2	26.7	27.5	28.2	28.0	28.7	29.2
	12H	25.7	26.3	26.2	26.8	27.3	27.5	28.1	28.0	28.6	29.1
8H	4H	22.8	23.5	23.3	24.0	24.5	27.1	27.8	27.6	28.3	28.8
	6H	24.8	25.3	25.3	25.8	26.3	27.5	28.1	28.0	28.6	29.1
	8H	25.7	26.2	26.2	26.7	27.2	27.6	28.1	28.1	28.6	29.1
	12H	26.6	27.0	27.1	27.5	28.1	27.7	28.1	28.2	28.6	29.2
12H	4H	22.9	23.5	23.4	24.0	24.5	27.1	27.7	27.6	28.2	28.7
	6H	24.9	25.4	25.4	25.8	26.4	27.5	28.0	28.0	28.5	29.0
	8H	25.8	26.3	26.4	26.8	27.4	27.6	28.1	28.1	28.6	29.1

Max UGR: 29.2

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Candela Table - Type C

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5	360
0	**39962**	**39962**	**39962**	**39962**	**39962**	**39962**	**39962**	**39962**	**39962**	**39962**	**39962**	**39962**	**39962**	**39962**	**39962**	**39962**	**399**
5	37307	37639	38677	39569	39641	37777	35931	34775	34352	34775	35931	37777	39641	39569	38677	37639	373
10	30962	31770	34249	37784	38860	34989	31450	29921	29314	29921	31450	34989	38860	37784	34249	31770	309
15	23709	25020	29204	34874	37506	31442	27492	24002	23236	24002	27492	31442	37506	34874	29204	25020	237
20	16459	18305	23327	31538	35679	28029	22538	19964	19003	19964	22538	28029	35679	31538	23327	18305	164
25	9705	11513	18202	27671	33353	24708	19342	15349	14335	15349	19342	24708	33353	27671	18202	11513	97
30	6178	7265	12806	23411	30497	21081	15769	12554	11307	12554	15769	21081	30497	23411	12806	7265	61
35	4755	5007	8832	18862	27206	17843	12779	9396	8927	9396	12779	17843	27206	18862	8832	5007	47
40	3638	3997	6117	15193	23472	15372	10537	7776	6761	7776	10537	15372	23472	15193	6117	3997	36
45	2963	3207	4397	11849	19449	13076	8146	5987	5064	5987	8146	13076	19449	11849	4397	3207	29
50	2753	2589	3466	9183	15307	10735	6662	3947	3531	3947	6662	10735	15307	9183	3466	2589	27
55	2425	2410	2689	7093	11326	8607	5007	3200	3119	3200	5007	8607	11326	7093	2689	2410	24
60	2204	2082	2082	5419	7928	6822	3699	2605	2525	2605	3699	6822	7928	5419	2082	2082	22
65	2078	1861	1647	3928	5301	5163	2483	2017	1891	2017	2483	5163	5301	3928	1647	1861	20
70	1972	1708	1346	2631	3329	3554	1773	1106	858	1106	1773	3554	3329	2631	1346	1708	19
75	1899	1590	1094	1636	1880	2200	904	76	34	76	904	2200	1880	1636	1094	1590	18
80	1590	1316	854	942	908	1075	42	31	31	31	42	1075	908	942	854	1316	15
85	972	831	572	439	286	84	34	27	27	27	34	84	286	439	572	831	9
90	503	439	275	149	53	46	34	27	27	27	34	46	53	149	275	439	5
95	355	297	179	103	61	53	38	27	27	27	38	53	61	103	179	297	3
100	263	217	118	80	61	53	38	27	27	27	38	53	61	80	118	217	2
105	156	133	76	72	61	53	38	27	27	27	38	53	61	72	76	133	1
110	84	57	42	57	57	53	34	27	23	27	34	53	57	57	42	57	
115	23	31	42	53	50	46	34	23	23	23	34	46	50	53	42	31	
120	23	34	42	50	50	46	31	23	19	23	31	46	50	50	42	34	
125	31	34	42	50	46	50	34	23	23	23	34	50	46	50	42	34	
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	