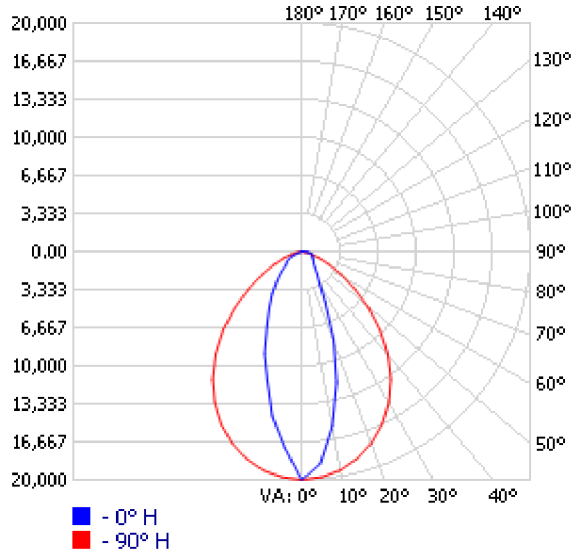
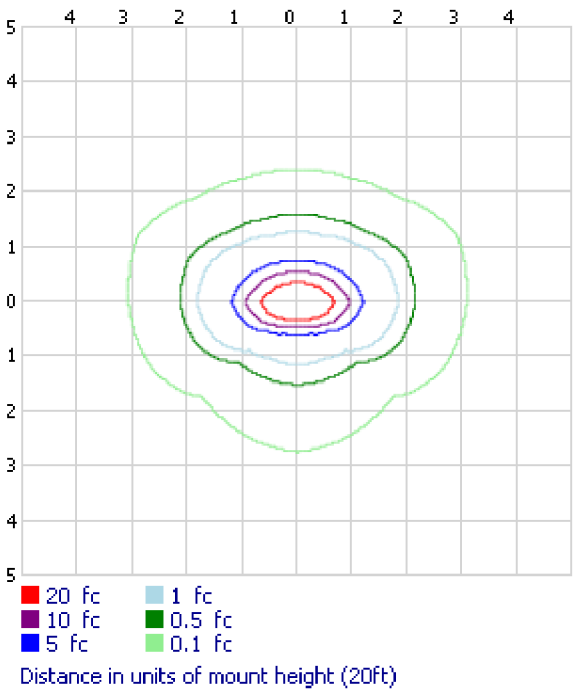
INDOOR PHOTOMETRIC REPORT
CATALOG: L-2-SA-850-2-U10-N

Manufacturer:	LUX Dynamics
Test #:	L092511001_modified to 5000K, 1bar to 2bar
Test Lab:	LIGHT LABORATORY, INC. (www.lightlaboratory.com)
Catalog:	L-2-SA-850-2-U10-N
Description:	L series, 2 bar, SA Configuration, 2 ft length, 5000K, U10 Driver, Narrow Optic, 120VAC
Lamp Output:	Total luminaire Lumens: 23060.6, absolute photometry *
Ballast / Driver:	XI085C240V054BST1 (qty 2)
Input Wattage:	154
Luminous Opening:	Rectangle (L: 11.52", W: 22.2")
Cie Class:	Direct
Nema Type:	7 X 5
Max Cd:	19,981.4 at Horizontal: 0°, Vertical: 0°
Spacing Criterion:	@ 0 = 0.57 / @ 90 = 1.15

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	10,428.4	45.2%
0-40	14,640.9	63.5%
0-60	20,467.3	88.8%
60-90	2,456.7	10.7%
70-100	1,001.4	4.3%
90-120	123.8	0.5%
0-90	22,923.9	99.4%
90-180	136.7	0.6%
0-180	23,060.6	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	1,716.3	7.4%	90-100	67.0	0.3%
10-20	4,051.4	17.6%	100-110	36.9	0.2%
20-30	4,660.7	20.2%	110-120	19.9	0.1%
30-40	4,212.5	18.3%	120-130	12.9	0.1%
40-50	3,398.0	14.7%	130-140	0.000	0%
50-60	2,428.4	10.5%	140-150	0.000	0%
60-70	1,522.2	6.6%	150-160	0.000	0%
70-80	716.5	3.1%	160-170	0.000	0%
80-90	217.9	0.9%	170-180	0.000	0%

LCS Table

BUG Rating	**B5 - U3 - G3**	
Forward Light	Lumens	Lumens %
Low(0-30):	5,234.7	22.7%
Medium(30-60):	4,495.9	19.5%
High(60-80):	1,113.2	4.8%
Very High(80-90):	177.8	0.8%
Back Light		
Low(0-30):	5,217.8	22.6%
Medium(30-60):	5,552.9	24.1%
High(60-80):	1,126.8	4.9%
Very High(80-90):	40.2	0.2%
Uplight		
Low(90-100):	67.0	0.3%
High(100-180):	69.7	0.3%
Trapped Light:	0.000	0%

Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	87.9%	20,263.6	136.6	86.9
Beam (50%):	44.1%	10,167.2	88.7	36.4
Total:	99.6%	22,958.6		

Illuminance at a Distance

	Center Beam	Beam Spread(ft)		Field Spread(ft)	
Height(ft)	Footcandle	Horizontal	Vertical	Horizontal	Vertical
4.00	1,248.84 fc	7.8	2.6	20.1	7.6
8.00	312.21 fc	15.6	5.3	40.2	15.2
12.00	138.76 fc	23.5	7.9	60.3	22.7
16.00	78.05 fc	31.3	10.5	80.4	30.3
20.00	49.95 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	121102	121102	121102	121102	121102	121102	121102	121102	121102
45	12699	13745	18844	50780	83352	56042	34910	25659	21704
55	12814	12734	14205	37476	59841	45475	26455	16905	16481
65	14903	13345	11813	28166	38010	37026	17802	14466	13563
75	22236	18620	12815	19155	22013	25764	10582	893	402
85	33812	28906	19890	15249	9945	2917	1193	928	928

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50			30			10			0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	.99	1.11	1.11	1.11	1.06	1.06	1.06	1.01	1.01	1.01	.99
1	1.11	1.07	1.04	1.00	1.08	1.05	1.02	.88	1.00	.98	.96	.97	.95	.93	.93	.91	.90	.88
2	1.03	.96	.91	.86	1.00	.94	.89	.78	.91	.87	.83	.88	.84	.81	.85	.82	.79	.77
3	.96	.87	.80	.75	.93	.85	.79	.70	.82	.77	.73	.80	.75	.72	.77	.74	.70	.68
4	.89	.79	.72	.66	.87	.78	.71	.63	.75	.69	.65	.73	.68	.64	.71	.67	.63	.61
5	.83	.72	.65	.59	.81	.71	.64	.57	.69	.63	.58	.67	.62	.57	.65	.61	.57	.55
6	.78	.66	.59	.53	.76	.65	.58	.51	.64	.57	.53	.62	.56	.52	.61	.56	.52	.50
7	.73	.61	.54	.48	.71	.61	.53	.47	.59	.53	.48	.58	.52	.48	.56	.51	.47	.46
8	.69	.57	.49	.44	.67	.56	.49	.43	.55	.49	.44	.54	.48	.44	.53	.47	.43	.42
9	.65	.53	.46	.41	.63	.52	.46	.40	.51	.45	.41	.50	.45	.40	.49	.44	.40	.39
10	.61	.50	.43	.38	.60	.49	.42	.37	.48	.42	.38	.47	.42	.38	.46	.41	.37	.36

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	18.5	17.5	18.8	19.1	25.4	26.7	25.8	27.1	27.4
	3H	19.9	21.1	20.3	21.5	21.8	26.6	27.8	27.0	28.2	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	27.6	28.5	28.9
	12H	24.3	25.3	24.8	25.7	26.1	27.1	28.1	27.5	28.5	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	22.1	22.5	26.7	27.7	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	28.0	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	27.6	28.2	28.0	28.6	29.1
8H	4H	22.8	23.5	23.3	24.0	24.5	27.2	27.8	27.6	28.3	28.8
	6H	24.8	25.4	25.3	25.9	26.4	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	**19981**	**19981**	**19981**	**19981**	**19981**	**19981**	**19981**	**19981**	**19981**	**19981**	**19981**	**19981**	**19981**	**19981**	**19981**	**19981**	**199**
5	18654	18820	19339	19785	19821	18889	17966	17388	17176	17388	17966	18889	19821	19785	19339	18820	186
10	15481	15886	17125	18893	19430	17495	15725	14961	14658	14961	15725	17495	19430	18893	17125	15886	154
15	11855	12511	14602	17438	18753	15722	13746	12001	11618	12001	13746	15722	18753	17438	14602	12511	118
20	8230	9153	11664	15769	17840	14015	11269	9982	9502	9982	11269	14015	17840	15769	11664	9153	82
25	4853	5757	9101	13836	16677	12354	9671	7675	7168	7675	9671	12354	16677	13836	9101	5757	48
30	3089	3632	6403	11706	15249	10541	7885	6277	5654	6277	7885	10541	15249	11706	6403	3632	30
35	2378	2504	4416	9431	13603	8922	6390	4698	4464	4698	6390	8922	13603	9431	4416	2504	23
40	1819	1998	3059	7597	11736	7686	5268	3888	3381	3888	5268	7686	11736	7597	3059	1998	18
45	1482	1604	2199	5924	9725	6538	4073	2994	2532	2994	4073	6538	9725	5924	2199	1604	14
50	1377	1295	1733	4592	7654	5368	3331	1974	1766	1974	3331	5368	7654	4592	1733	1295	13
55	1213	1205	1344	3547	5663	4304	2504	1600	1560	1600	2504	4304	5663	3547	1344	1205	12
60	1102	1041	1041	2710	3964	3411	1850	1302	1262	1302	1850	3411	3964	2710	1041	1041	11
65	1039	931	824	1964	2650	2582	1241	1009	946	1009	1241	2582	2650	1964	824	931	10
70	986	854	673	1316	1665	1777	887	553	429	553	887	1777	1665	1316	673	854	9
75	950	795	547	818	940	1100	452	38	17	38	452	1100	940	818	547	795	9
80	795	658	427	471	454	538	21	15	15	15	21	538	454	471	427	658	7
85	486	416	286	219	143	42	17	13	13	13	17	42	143	219	286	416	4
90	252	219	137	74	27	23	17	13	13	13	17	23	27	74	137	219	2
95	177	149	90	51	31	27	19	13	13	13	19	27	31	51	90	149	1
100	132	109	59	40	31	27	19	13	13	13	19	27	31	40	59	109	1
105	78	67	38	36	31	27	19	13	13	13	19	27	31	36	38	67	
110	42	29	21	29	29	27	17	13	11	13	17	27	29	29	21	29	
115	11	15	21	27	25	23	17	11	11	11	17	23	25	27	21	15	
120	11	17	21	25	25	23	15	11	10	11	15	23	25	25	21	17	
125	15	17	21	25	23	25	17	11	11	11	17	25	23	25	21	17	
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	