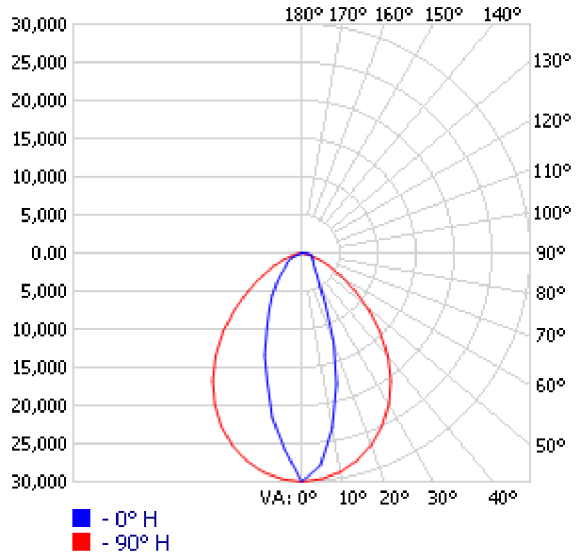
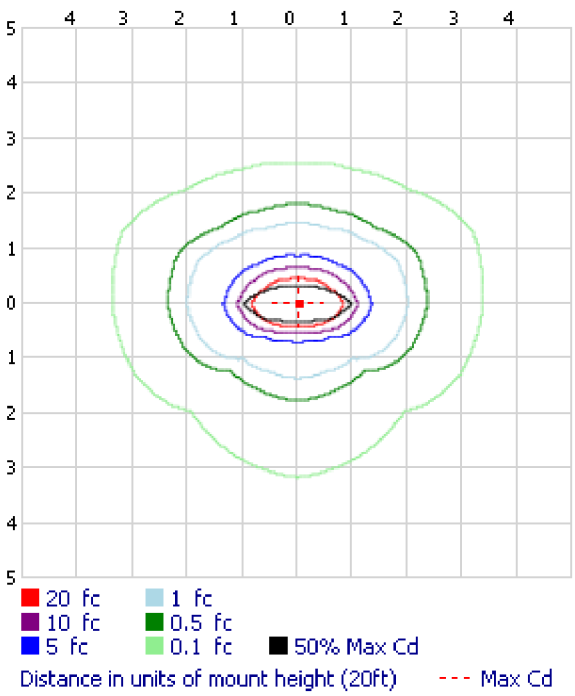
OUTDOOR PHOTOMETRIC REPORT
CATALOG: L-3-SA-850-2-U10-N

Manufacturer:	LUX Dynamics
Test #:	L092511001_modified to 5000K, 1bar to 3bar
Test Lab:	LIGHT LABORATORY, INC. (www.lightlaboratory.com)
Catalog:	L-3-SA-850-2-U10-N
Description:	L series, 3 bar, SA Configuration, 2 ft length, 5000K, U10 Driver, Narrow Optic, 120VAC
Lamp Output:	Total luminaire Lumens: 34590.9, absolute photometry *
Ballast / Driver:	XI085C240V054BST1 (qty 3)
Input Wattage:	231
Luminous Opening:	Rectangle (L: 13.2", W: 22.2")
Nema Type:	7 X 5
Max Cd:	29,972.0 at Horizontal: 0°, Vertical: 0°

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 2026, Acuity Brands Lighting.
This Photometric report has been generated using methods recommended by the IESNA. Calculations are based on Photometric data provided by the manufacturer, and the accuracy of this Photometric report is dependent on the accuracy of the data provided. End-user environment and application (including, but not limited to, voltage variation and dirt accumulation) can cause actual Photometric performance to differ from the performance calculated using the data provided by the manufacturer. This report is provided without warranty as to accuracy, completeness, reliability or otherwise. In no event will Acuity Brands Lighting be responsible for any loss resulting from any use of this report.

OUTDOOR PHOTOMETRIC REPORT
CATALOG: L-3-SA-850-2-U10-N

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	15,642.6	45.2%
0-40	21,961.3	63.5%
0-60	30,700.9	88.8%
60-90	3,685.0	10.7%
70-100	1,502.1	4.3%
90-120	185.7	0.5%
0-90	34,385.9	99.4%
90-180	205.0	0.6%
0-180	34,590.9	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	2,574.5	7.4%	90-100	100.5	0.3%
10-20	6,077.1	17.6%	100-110	55.4	0.2%
20-30	6,991.0	20.2%	110-120	29.8	0.1%
30-40	6,318.7	18.3%	120-130	19.3	0.1%
40-50	5,097.0	14.7%	130-140	0.000	0%
50-60	3,642.6	10.5%	140-150	0.000	0%
60-70	2,283.3	6.6%	150-160	0.000	0%
70-80	1,074.8	3.1%	160-170	0.000	0%
80-90	326.9	0.9%	170-180	0.000	0%

LCS Table

BUG Rating	**B5 - U3 - G3**	
Forward Light	Lumens	Lumens %
Low(0-30):	7,852.0	22.7%
Medium(30-60):	6,743.8	19.5%
High(60-80):	1,669.8	4.8%
Very High(80-90):	266.6	0.8%
Back Light		
Low(0-30):	7,826.8	22.6%
Medium(30-60):	8,329.3	24.1%
High(60-80):	1,690.2	4.9%
Very High(80-90):	60.3	0.2%
Uplight		
Low(90-100):	100.5	0.3%
High(100-180):	104.5	0.3%
Trapped Light:	0.000	0%

Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	87.9%	30,395.5	136.6	86.9
Beam (50%):	44.1%	15,250.8	88.7	36.4
Total:	99.6%	34,437.9		

Illuminance at a Distance

	Center Beam	Beam Spread(ft)		Field Spread(ft)	
Height(ft)	Footcandle	Horizontal	Vertical	Horizontal	Vertical
4.00	1,873.25 fc	7.8	2.6	20.1	7.6
8.00	468.31 fc	15.6	5.3	40.2	15.2
12.00	208.14 fc	23.5	7.9	60.3	22.7
16.00	117.08 fc	31.3	10.5	80.4	30.3
20.00	74.93 fc	39.1	13.2	100.5	37.9
		Beam Angle		Field Angle	
		88.7°	36.4°	136.6°	86.9°

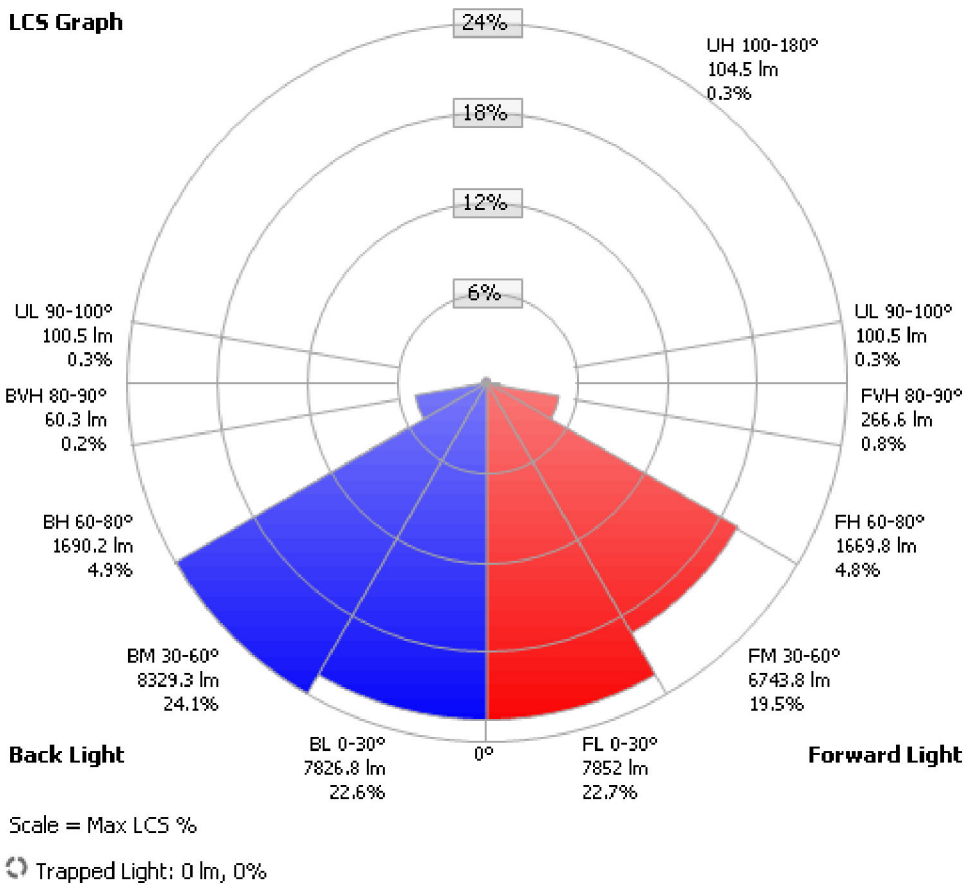
Average Luminance (Cd/m2)

	0	22.5	45	67.5	90	112.5	135	157.5	180
0	158534	158534	158534	158534	158534	158534	158534	158534	158534
45	16624	17993	24669	66475	109116	73364	45700	33591	28413
55	16775	16670	18595	49060	78337	59531	34632	22130	21576
65	19510	17469	15465	36872	49759	48470	23304	18937	17756
75	29110	24375	16776	25076	28817	33727	13853	1169	526
85	44264	37841	26037	19962	13019	3819	1562	1215	1215

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



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	18.0	19.4	18.4	19.7	20.0	26.3	27.7	26.7	28.0	28.3
	3H	20.8	22.0	21.2	22.4	22.8	27.5	28.7	27.9	29.1	29.5
	4H	22.4	23.6	22.8	23.9	24.3	27.9	29.0	28.3	29.4	29.8
	6H	24.0	25.1	24.4	25.4	25.8	28.0	29.1	28.4	29.5	29.9
	8H	24.7	25.7	25.1	26.1	26.5	28.0	29.0	28.5	29.4	29.9
	12H	25.3	26.2	25.7	26.6	27.0	28.0	29.0	28.5	29.4	29.8
4H	2H	18.6	19.7	19.0	20.1	20.5	26.2	27.4	26.6	27.7	28.1
	3H	21.6	22.6	22.1	23.0	23.4	27.7	28.6	28.1	29.0	29.4
	4H	23.4	24.3	23.9	24.7	25.2	28.1	29.0	28.6	29.4	29.9
	6H	25.2	25.9	25.7	26.4	26.9	28.4	29.1	28.9	29.6	30.1
	8H	26.0	26.7	26.5	27.1	27.6	28.5	29.2	28.9	29.6	30.1
	12H	26.7	27.3	27.2	27.8	28.2	28.5	29.1	29.0	29.6	30.1
8H	4H	23.8	24.5	24.3	24.9	25.4	28.1	28.8	28.6	29.2	29.7
	6H	25.7	26.3	26.2	26.8	27.3	28.4	29.0	29.0	29.5	30.0
	8H	26.6	27.1	27.2	27.7	28.2	28.5	29.0	29.1	29.6	30.1
	12H	27.5	28.0	28.0	28.5	29.0	28.6	29.0	29.1	29.5	30.1
12H	4H	23.8	24.4	24.3	24.9	25.4	28.1	28.7	28.6	29.2	29.7
	6H	25.8	26.3	26.3	26.8	27.3	28.4	28.9	29.0	29.4	30.0
	8H	26.8	27.2	27.3	27.7	28.3	28.6	29.0	29.1	29.5	30.1

Max UGR: 30.1

OUTDOOR PHOTOMETRIC REPORT
CATALOG: L-3-SA-850-2-U10-N

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	**29972**	**29972**	**29972**	**29972**	**29972**	**29972**	**29972**	**29972**	**29972**	**29972**	**29972**	**29972**	**29972**	**29972**	**29972**	**29972**	**299**
5	27981	28230	29008	29677	29732	28333	26949	26082	25765	26082	26949	28333	29732	29677	29008	28230	279
10	23222	23828	25687	28339	29145	26242	23588	22441	21986	22441	23588	26242	29145	28339	25687	23828	232
15	17782	18766	21903	26157	28130	23582	20619	18002	17427	18002	20619	23582	28130	26157	21903	18766	177
20	12345	13729	17496	23654	26760	21022	16904	14973	14252	14973	16904	21022	26760	23654	17496	13729	123
25	7279	8635	13652	20754	25015	18531	14507	11512	10751	11512	14507	18531	25015	20754	13652	8635	72
30	4634	5449	9605	17559	22873	15811	11827	9416	8480	9416	11827	15811	22873	17559	9605	5449	46
35	3567	3755	6624	14147	20405	13383	9585	7048	6696	7048	9585	13383	20405	14147	6624	3755	35
40	2729	2997	4588	11395	17605	11529	7903	5832	5071	5832	7903	11529	17605	11395	4588	2997	27
45	2222	2405	3298	8887	14587	9808	6109	4491	3798	4491	6109	9808	14587	8887	3298	2405	22
50	2065	1942	2600	6887	11481	8051	4997	2960	2649	2960	4997	8051	11481	6887	2600	1942	20
55	1819	1808	2016	5320	8495	6455	3755	2400	2340	2400	3755	6455	8495	5320	2016	1808	18
60	1653	1562	1562	4064	5946	5117	2774	1954	1893	1954	2774	5117	5946	4064	1562	1562	16
65	1559	1396	1236	2946	3976	3873	1862	1513	1419	1513	1862	3873	3976	2946	1236	1396	15
70	1479	1281	1010	1974	2497	2666	1330	829	644	829	1330	2666	2497	1974	1010	1281	14
75	1424	1193	821	1227	1410	1650	678	57	26	57	678	1650	1410	1227	821	1193	14
80	1193	987	641	706	681	807	31	23	23	23	31	807	681	706	641	987	11
85	729	624	429	329	215	63	26	20	20	20	26	63	215	329	429	624	7
90	378	329	206	112	40	34	26	20	20	20	26	34	40	112	206	329	3
95	266	223	134	77	46	40	29	20	20	20	29	40	46	77	134	223	2
100	197	163	89	60	46	40	29	20	20	20	29	40	46	60	89	163	1
105	117	100	57	54	46	40	29	20	20	20	29	40	46	54	57	100	1
110	63	43	31	43	43	40	26	20	17	20	26	40	43	43	31	43	
115	17	23	31	40	37	34	26	17	17	17	26	34	37	40	31	23	
120	17	26	31	37	37	34	23	17	14	17	23	34	37	37	31	26	
125	23	26	31	37	34	37	26	17	17	17	26	37	34	37	31	26	
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	