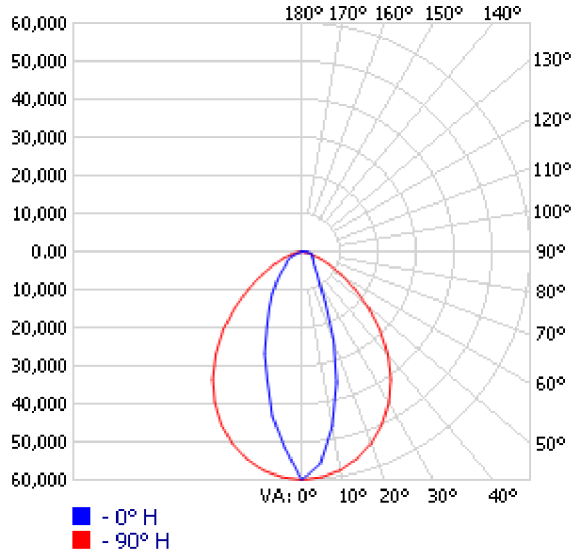
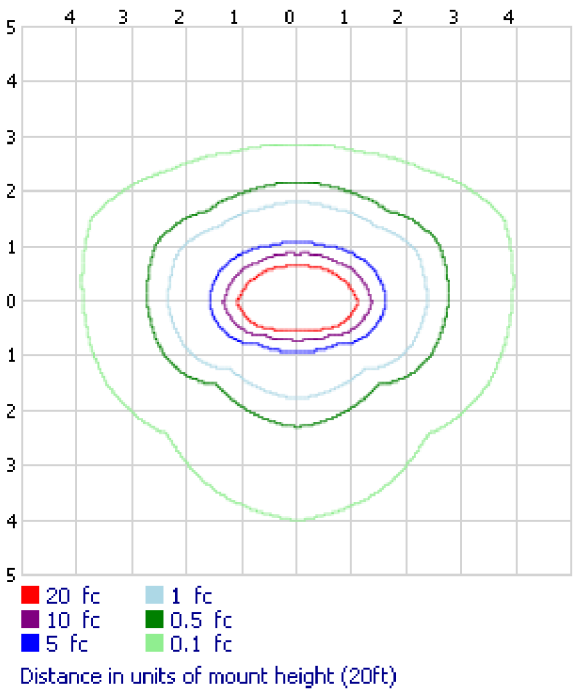
INDOOR PHOTOMETRIC REPORT
CATALOG: L-3-SA-850-4-U10-N

Manufacturer:	LUX Dynamics
Test #:	L092511001_modified to 5000K, 2ft to 4ft, 1bar to 3bar
Test Lab:	LIGHT LABORATORY, INC. (www.lightlaboratory.com)
Catalog:	L-3-SA-850-4-U10-N
Description:	L series, 3 bar, SA Configuration, 4 ft length, 5000K, U10 Driver, Narrow Optic, 120VAC
Lamp Output:	Total luminaire Lumens: 69180.6, absolute photometry *
Ballast / Driver:	XI085C240V054BST1 (qty 6)
Input Wattage:	461
Luminous Opening:	Rectangle (L: 13.2", W: 44.52")
Cie Class:	Direct
Nema Type:	7 X 5
Max Cd:	59,943.0 at Horizontal: 0°, Vertical: 0°
Spacing Criterion:	@ 0 = 0.57 / @ 90 = 1.15

Polar Candela



Isoilluminance



Distance in units of mount height (20ft)

*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.

INDOOR PHOTOMETRIC REPORT
CATALOG: L-3-SA-850-4-U10-N

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	31,284.7	45.2%
0-40	43,921.9	63.5%
0-60	61,400.7	88.8%
60-90	7,369.9	10.7%
70-100	3,004.2	4.3%
90-120	371.4	0.5%
0-90	68,770.6	99.4%
90-180	410.0	0.6%
0-180	69,180.6	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	5,148.9	7.4%	90-100	201.0	0.3%
10-20	12,154.0	17.6%	100-110	110.8	0.2%
20-30	13,981.8	20.2%	110-120	59.7	0.1%
30-40	12,637.2	18.3%	120-130	38.7	0.1%
40-50	10,193.8	14.7%	130-140	0.000	0%
50-60	7,285.1	10.5%	140-150	0.000	0%
60-70	4,566.6	6.6%	150-160	0.000	0%
70-80	2,149.6	3.1%	160-170	0.000	0%
80-90	653.7	0.9%	170-180	0.000	0%

LCS Table

BUG Rating	**B5 - U3 - G4**	
Forward Light	Lumens	Lumens %
Low(0-30):	15,703.8	22.7%
Medium(30-60):	13,487.4	19.5%
High(60-80):	3,339.5	4.8%
Very High(80-90):	533.3	0.8%
Back Light		
Low(0-30):	15,653.3	22.6%
Medium(30-60):	16,658.3	24.1%
High(60-80):	3,380.4	4.9%
Very High(80-90):	120.6	0.2%
Uplight		
Low(90-100):	200.9	0.3%
High(100-180):	208.9	0.3%
Trapped Light:	0.000	0%

Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	87.9%	60,789.9	136.6	86.9
Beam (50%):	44.1%	30,501.0	88.7	36.4
Total:	99.6%	68,874.7		

Illuminance at a Distance

	Center Beam	Beam Spread(ft)		Field Spread(ft)	
Height(ft)	Footcandle	Horizontal	Vertical	Horizontal	Vertical
4.00	3,746.44 fc	7.8	2.6	20.1	7.6
8.00	936.61 fc	15.6	5.3	40.2	15.2
12.00	416.27 fc	23.5	7.9	60.3	22.7
16.00	234.15 fc	31.3	10.5	80.4	30.3
20.00	149.86 fc	39.1	13.2	100.5	37.9
		Beam Angle		Field Angle	
		88.7°	36.4°	136.6°	86.9°

INDOOR PHOTOMETRIC REPORT
CATALOG: L-3-SA-850-4-U10-N

Average Luminance (Cd/m2)

	0	22.5	45	67.5	90	112.5	135	157.5	180
0	158104	158104	158104	158104	158104	158104	158104	158104	158104
45	16579	17945	24602	66295	108820	73165	45576	33499	28336
55	16730	16624	18545	48926	78125	59369	34538	22070	21517
65	19457	17422	15423	36771	49624	48338	23241	18886	17707
75	29031	24309	16730	25008	28739	33636	13816	1166	525
85	44143	37738	25967	19908	12983	3808	1558	1212	1212

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	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	27.8	29.0	28.3	29.3	29.7
	6H	24.0	25.0	24.4	25.4	25.8	28.0	29.1	28.4	29.4	29.9
	8H	24.7	25.7	25.1	26.1	26.5	28.0	29.0	28.5	29.4	29.9
	12H	25.2	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	22.0	23.0	23.4	27.6	28.6	28.1	29.0	29.4
	4H	23.4	24.3	23.9	24.7	25.1	28.1	29.0	28.6	29.4	29.8
	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	26.4	27.1	27.6	28.5	29.1	28.9	29.6	30.1
	12H	26.7	27.3	27.1	27.7	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	28.9	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	27.9	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	29.6
	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	28.5	29.0	29.1	29.5	30.1

Max UGR: 30.1

INDOOR PHOTOMETRIC REPORT
CATALOG: L-3-SA-850-4-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	**59943**	**59943**	**59943**	**59943**	**59943**	**59943**	**59943**	**59943**	**59943**	**59943**	**59943**	**59943**	**59943**	**59943**	**59943**	**59943**	**599**
5	55962	56459	58015	59354	59463	56665	53897	52163	51528	52163	53897	56665	59463	59354	58015	56459	559
10	46443	47656	51374	56677	58290	52484	47175	44881	43972	44881	47175	52484	58290	56677	51374	47656	464
15	35563	37531	43806	52312	56259	47164	41238	36004	34854	36004	41238	47164	56259	52312	43806	37531	355
20	24689	27457	34991	47307	53519	42044	33807	29946	28504	29946	33807	42044	53519	47307	34991	27457	246
25	14558	17270	27303	41506	50030	37062	29013	23024	21503	23024	29013	37062	50030	41506	27303	17270	145
30	9267	10897	19209	35117	45745	31622	23653	18831	16961	18831	23653	31622	45745	35117	19209	10897	92
35	7133	7511	13248	28293	40809	26765	19169	14095	13391	14095	19169	26765	40809	28293	13248	7511	71
40	5457	5995	9175	22790	35208	23059	15805	11664	10142	11664	15805	23059	35208	22790	9175	5995	54
45	4445	4811	6596	17773	29174	19615	12219	8981	7597	8981	12219	19615	29174	17773	6596	4811	44
50	4130	3884	5200	13774	22961	16103	9993	5921	5297	5921	9993	16103	22961	13774	5200	3884	41
55	3638	3615	4033	10640	16989	12911	7511	4799	4679	4799	7511	12911	16989	10640	4033	3615	36
60	3306	3123	3123	8129	11893	10234	5549	3907	3787	3907	5549	10234	11893	8129	3123	3123	33
65	3118	2792	2471	5892	7951	7745	3724	3026	2837	3026	3724	7745	7951	5892	2471	2792	31
70	2957	2563	2019	3947	4994	5331	2660	1659	1287	1659	2660	5331	4994	3947	2019	2563	29
75	2849	2385	1642	2454	2820	3301	1356	114	51	114	1356	3301	2820	2454	1642	2385	28
80	2385	1974	1281	1413	1361	1613	63	46	46	46	63	1613	1361	1413	1281	1974	23
85	1459	1247	858	658	429	126	51	40	40	40	51	126	429	658	858	1247	14
90	755	658	412	223	80	69	51	40	40	40	51	69	80	223	412	658	7
95	532	446	269	154	92	80	57	40	40	40	57	80	92	154	269	446	5
100	395	326	177	120	92	80	57	40	40	40	57	80	92	120	177	326	3
105	235	200	114	109	92	80	57	40	40	40	57	80	92	109	114	200	2
110	126	86	63	86	86	80	51	40	34	40	51	80	86	86	63	86	1
115	34	46	63	80	74	69	51	34	34	34	51	69	74	80	63	46	
120	34	51	63	74	74	69	46	34	29	34	46	69	74	74	63	51	
125	46	51	63	74	69	74	51	34	34	34	51	74	69	74	63	51	
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	