



UL Verification Services Inc.
7036 Snowdrift Road
Allentown, PA 18106
610-774-1300

Integrating Sphere Test Report

Relevant Standards
IES LM-79-2008
ANSI C78.377-2011, ANSI C82.77-2002
CIE 13.3-1995, CIE 15-2004

Prepared For
Elemental LED Inc, DBA Diode LED
Wes Buck
Suite 211, 1195 Park Ave.
Emeryville, CA 94608
United States

Catalog Number
Equiflux LED Graphics Display Light-12" EL-24V-EQUI-6500-12-1055

Order Number
10458922
Test Number
738585

Test Date
2014-09-04

Prepared By

Javier Caban

Javier Caban, Technician

Approved By

Eric M. Gaudreau

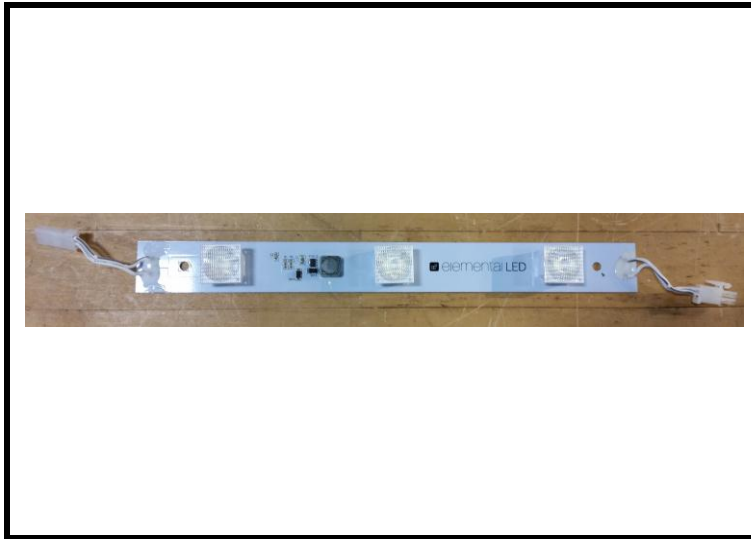
Eric Gaudreau, Engineering Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: LED Board
Catalog Number: Equiflux LED Graphics Display Light-12" EL-24V-EQUI-6500-12-1055
Lamp: Three white LEDs with patterned plastic optics below each
Mounting: Surface
Ballast/Driver: One Meanwell LPV-60-24

Luminaire



Summary of Results

Radiant Flux: 2215 mW
Luminous Flux: 675.9 Lumens
Luminaire Efficacy: 61.6 Lumens/Watt
CCT: 6705 K
CRI (Ra): 69.3
Chromaticity (x): 0.3088
Chromaticity (y): 0.3300
Chromaticity (u): 0.1947
Chromaticity (v): 0.3122
Duv: 0.0049

Test Conditions

Test Temperature: 24.6 °C
Voltage: 120.0 VAC
Current: 0.1942 A
Power: 10.97 W
Power Factor: 0.471
Frequency: 60 Hz
Current THD: 180 %

Testing was performed in a 2-meter integrating sphere using the 4π geometry method.

Absorption correction was employed for this measurement.

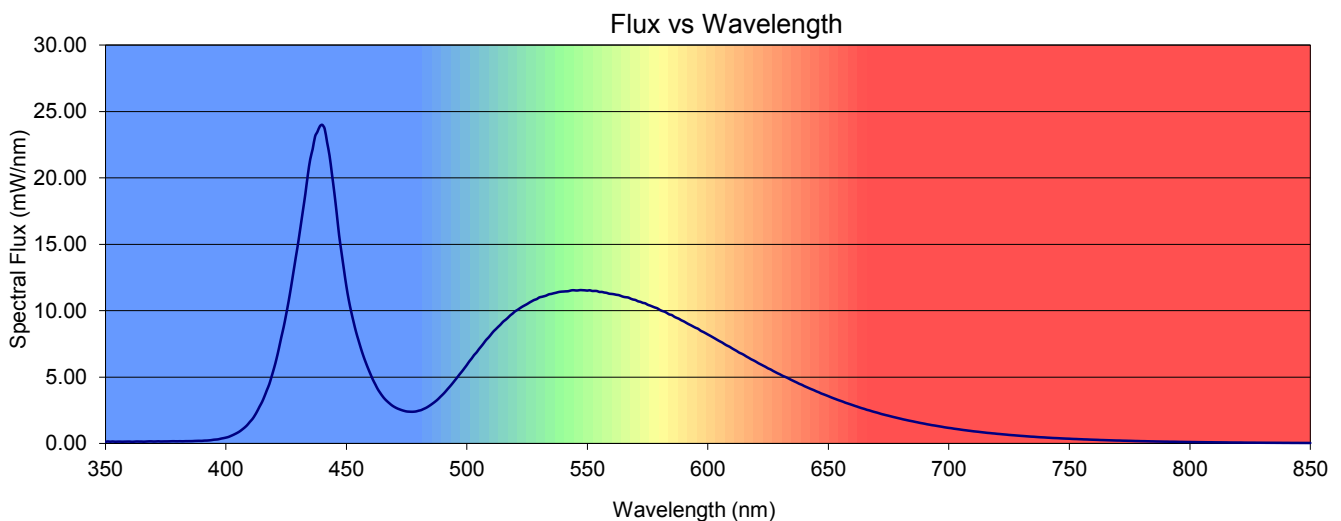
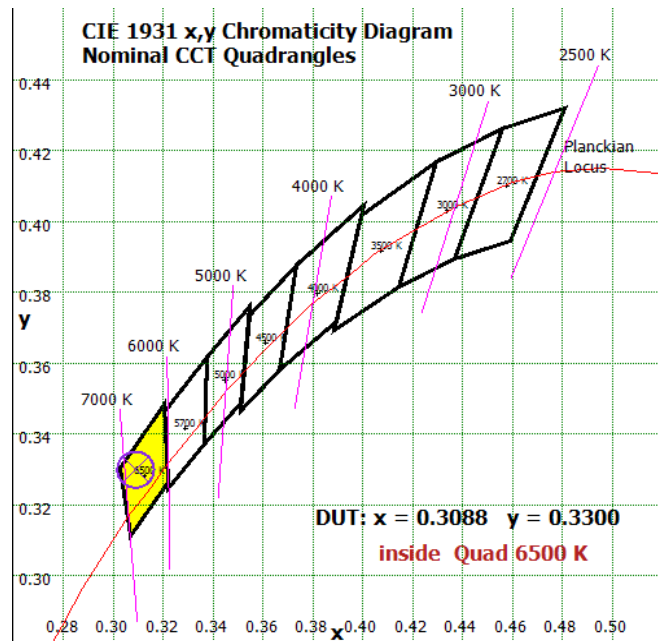
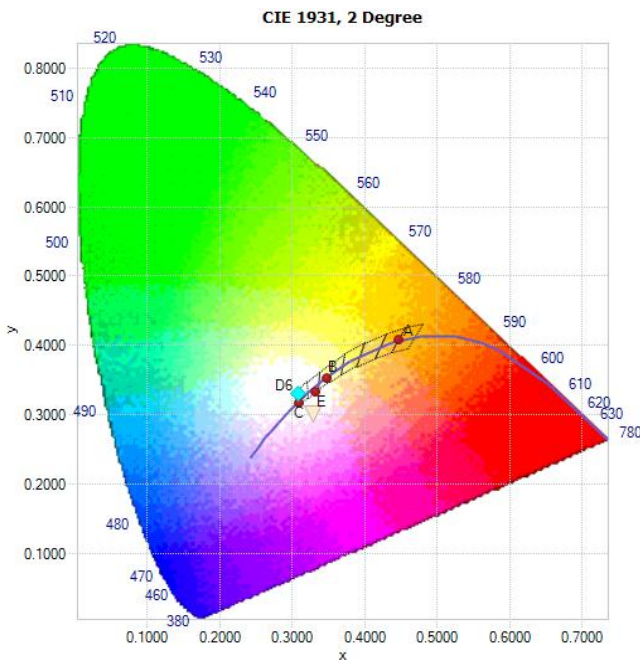


Chromaticity Coordinates

x	y	u	v	u'	v'	Duv
0.3088	0.3300	0.1947	0.3122	0.1947	0.4683	0.0049

Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
69.3	68.5	70.7	73.1	70.9	71.2	64.4	74.7	60.8	-28.7	31.9	73.0	49.6	67.0	84.8





Spectral Power Distribution

λ (nm)	mW/nm	λ (nm)	mW/nm	λ (nm)	mW/nm	λ (nm)	mW/nm	λ (nm)	mW/nm	λ (nm)	mW/nm	λ (nm)	mW/nm
350	0.124	422	7.16	494	4.52	566	11.0	638	4.49	710	0.925	782	0.170
351	0.154	423	8.01	495	4.75	567	11.0	639	4.42	711	0.906	783	0.166
352	0.136	424	8.79	496	4.98	568	10.9	640	4.32	712	0.887	784	0.161
353	0.151	425	9.71	497	5.21	569	10.8	641	4.24	713	0.865	785	0.159
354	0.135	426	10.7	498	5.44	570	10.8	642	4.16	714	0.843	786	0.153
355	0.141	427	11.7	499	5.67	571	10.7	643	4.09	715	0.823	787	0.150
356	0.142	428	12.9	500	5.92	572	10.7	644	4.01	716	0.802	788	0.147
357	0.134	429	14.0	501	6.18	573	10.6	645	3.93	717	0.788	789	0.142
358	0.140	430	15.1	502	6.40	574	10.6	646	3.86	718	0.767	790	0.141
359	0.144	431	16.4	503	6.66	575	10.4	647	3.77	719	0.752	791	0.138
360	0.147	432	17.6	504	6.86	576	10.4	648	3.71	720	0.730	792	0.133
361	0.129	433	18.8	505	7.10	577	10.3	649	3.64	721	0.716	793	0.133
362	0.139	434	20.2	506	7.32	578	10.2	650	3.56	722	0.698	794	0.131
363	0.151	435	21.4	507	7.56	579	10.2	651	3.49	723	0.682	795	0.126
364	0.147	436	22.2	508	7.80	580	10.1	652	3.41	724	0.666	796	0.123
365	0.146	437	23.1	509	7.98	581	9.98	653	3.35	725	0.647	797	0.120
366	0.137	438	23.5	510	8.21	582	9.93	654	3.28	726	0.633	798	0.117
367	0.149	439	23.9	511	8.43	583	9.83	655	3.22	727	0.619	799	0.115
368	0.158	440	24.0	512	8.61	584	9.72	656	3.15	728	0.604	800	0.113
369	0.161	441	23.7	513	8.79	585	9.68	657	3.08	729	0.590	801	0.109
370	0.149	442	22.7	514	8.96	586	9.55	658	3.02	730	0.575	802	0.109
371	0.155	443	21.7	515	9.17	587	9.46	659	2.96	731	0.563	803	0.104
372	0.165	444	20.3	516	9.31	588	9.39	660	2.90	732	0.549	804	0.103
373	0.152	445	18.9	517	9.46	589	9.28	661	2.83	733	0.534	805	0.101
374	0.157	446	17.3	518	9.65	590	9.20	662	2.77	734	0.521	806	0.0975
375	0.158	447	15.7	519	9.78	591	9.09	663	2.71	735	0.511	807	0.0953
376	0.160	448	14.3	520	9.95	592	8.99	664	2.65	736	0.499	808	0.0938
377	0.166	449	13.1	521	10.1	593	8.90	665	2.60	737	0.484	809	0.0938
378	0.173	450	11.8	522	10.2	594	8.80	666	2.54	738	0.471	810	0.0900
379	0.169	451	10.8	523	10.3	595	8.71	667	2.49	739	0.464	811	0.0879
380	0.167	452	9.93	524	10.4	596	8.63	668	2.43	740	0.453	812	0.0865
381	0.173	453	9.14	525	10.5	597	8.49	669	2.38	741	0.441	813	0.0854
382	0.166	454	8.41	526	10.6	598	8.41	670	2.33	742	0.429	814	0.0833
383	0.175	455	7.79	527	10.7	599	8.31	671	2.28	743	0.418	815	0.0821
384	0.177	456	7.18	528	10.8	600	8.21	672	2.22	744	0.410	816	0.0786
385	0.178	457	6.62	529	10.9	601	8.11	673	2.18	745	0.404	817	0.0762
386	0.181	458	6.12	530	11.0	602	8.00	674	2.13	746	0.393	818	0.0745
387	0.192	459	5.66	531	11.0	603	7.90	675	2.09	747	0.383	819	0.0738
388	0.199	460	5.23	532	11.1	604	7.79	676	2.04	748	0.375	820	0.0728
389	0.202	461	4.80	533	11.1	605	7.69	677	2.00	749	0.367	821	0.0738
390	0.201	462	4.45	534	11.2	606	7.59	678	1.95	750	0.360	822	0.0694
391	0.219	463	4.10	535	11.3	607	7.47	679	1.91	751	0.350	823	0.0662
392	0.223	464	3.82	536	11.3	608	7.37	680	1.87	752	0.340	824	0.0648
393	0.236	465	3.56	537	11.4	609	7.29	681	1.82	753	0.337	825	0.0636
394	0.256	466	3.34	538	11.4	610	7.17	682	1.78	754	0.327	826	0.0650
395	0.287	467	3.17	539	11.4	611	7.07	683	1.74	755	0.321	827	0.0639
396	0.300	468	3.01	540	11.4	612	6.96	684	1.70	756	0.311	828	0.0601
397	0.324	469	2.86	541	11.5	613	6.84	685	1.67	757	0.306	829	0.0607
398	0.370	470	2.75	542	11.5	614	6.76	686	1.63	758	0.300	830	0.0580
399	0.404	471	2.65	543	11.5	615	6.67	687	1.59	759	0.291	831	0.0573
400	0.444	472	2.58	544	11.5	616	6.55	688	1.55	760	0.285	832	0.0566
401	0.490	473	2.51	545	11.5	617	6.45	689	1.52	761	0.278	833	0.0553
402	0.566	474	2.46	546	11.5	618	6.34	690	1.49	762	0.272	834	0.0548
403	0.646	475	2.41	547	11.6	619	6.26	691	1.45	763	0.264	835	0.0538
404	0.736	476	2.40	548	11.5	620	6.15	692	1.42	764	0.259	836	0.0517
405	0.832	477	2.39	549	11.5	621	6.04	693	1.38	765	0.252	837	0.0517
406	0.947	478	2.40	550	11.5	622	5.95	694	1.36	766	0.246	838	0.0493
407	1.09	479	2.42	551	11.5	623	5.86	695	1.33	767	0.240	839	0.0478
408	1.24	480	2.47	552	11.5	624	5.76	696	1.29	768	0.236	840	0.0482
409	1.42	481	2.51	553	11.5	625	5.65	697	1.26	769	0.229	841	0.0475
410	1.64	482	2.60	554	11.5	626	5.58	698	1.23	770	0.226	842	0.0450
411	1.84	483	2.68	555	11.4	627	5.47	699	1.20	771	0.222	843	0.0448
412	2.11	484	2.79	556	11.4	628	5.38	700	1.17	772	0.215	844	0.0440
413	2.43	485	2.91	557	11.4	629	5.28	701	1.15	773	0.212	845	0.0431
414	2.79	486	3.04	558	11.3	630	5.20	702	1.12	774	0.206	846	0.0415
415	3.13	487	3.18	559	11.3	631	5.10	703	1.10	775	0.202	847	0.0418
416	3.55	488	3.33	560	11.3	632	5.03	704	1.07	776	0.196	848	0.0410
417	4.01	489	3.52	561	11.2	633	4.94	705	1.04	777	0.190	849	0.0408
418	4.47	490	3.69	562	11.2	634	4.85	706	1.02	778	0.186	850	0.0389
419	5.06	491	3.89	563	11.2	635	4.76	707	0.996	779	0.182		
420	5.68	492	4.10	564	11.1	636	4.67	708	0.971	780	0.176		
421	6.38	493	4.30	565	11.0	637	4.58	709	0.949	781	0.175		



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Photometric Indoor Test Report

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Javier Caban, Technician

Approved By

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Eric Gaudreau, Engineering Project Handler

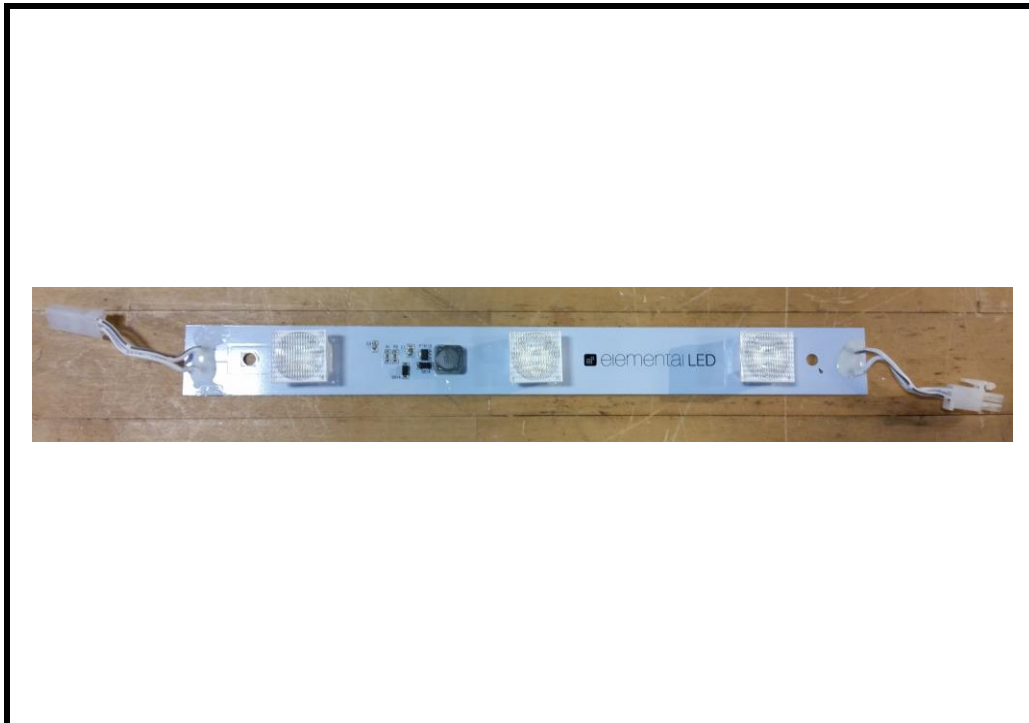
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Luminaire Description: LED Board
Catalog Number: Equiflux LED Graphics Display Light-12" EL-24V-EQUI-6500-12-1055
Lamp: Three white LEDs with patterned plastic optics below each
Mounting: Surface
Ballast/Driver: One Meanwell LPV-60-24

Luminaire

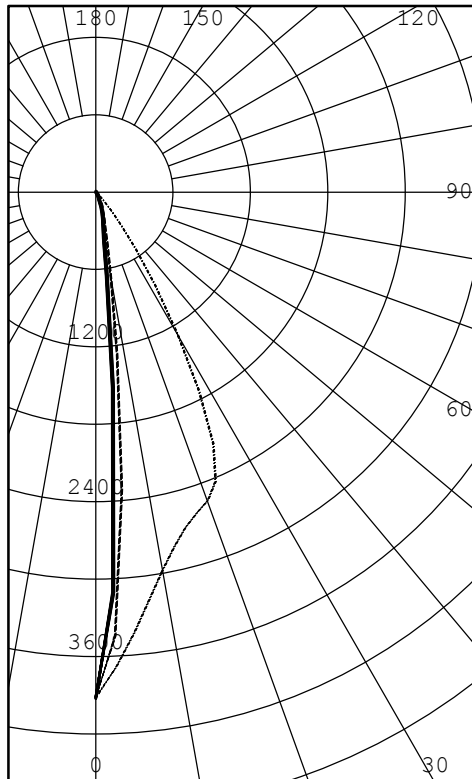


Test Conditions

Test Temperature:	25.7 °C
Voltage:	120.0 VAC
Current:	0.1890 A
Power:	10.94 W
Power Factor:	0.483
Frequency:	60 Hz
Current THD:	175 %



INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS



ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	3918	3918	3918	3918	3918	
5	3430	3134	2314	1734	1527	190
10	2978	1846	680	426	369	
15	2692	900	285	230	214	205
20	2542	432	175	145	128	
25	2157	217	114	77	67	169
30	1271	116	71	47	41	
35	542	72	43	31	27	72
40	187	47	30	23	20	
45	66	30	21	18	18	23
50	27	20	16	15	15	
55	17	14	12	12	12	12
60	14	11	10	9	9	
65	12	9	8	7	7	8
70	10	7	6	6	5	
75	7	5	5	4	3	5
80	4	3	3	2	2	
85	2	1	1	1	0	1
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	564	82.27
0-40	636	92.76
0-60	671	97.86
0-90	686	100.00
40-90	50	7.24
60-90	15	2.14
90-180	0	0.00
0-180	686	100.00

EFFICACY (LUMENS PER WATT): 62.9

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS LENGTH: 11.000 INS
 WIDTH: 1.125 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 0.2
 SC (ALONG): 0.8, SC (ACROSS): 0.2

ANGLE	ALONG	45	ACROSS
45	11646	3778	3120
55	3668	2718	2630
65	3689	2319	1978
75	3145	2253	1603
85	2658	1656	216

TESTED IN ACCORDANCE WITH IES PROCEDURES.



INTENSITY (CANDLEPOWER) DATA
 IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0.0	3918	3918	3918	3918	3918	3918	
2.5	3684	3696	3444	3222	3107	3439	
5.0	3430	3134	2314	1734	1527	2415	190
7.5	3184	2473	1269	779	660	1611	
10.0	2978	1846	680	426	369	1157	
12.5	2816	1314	417	290	268	891	
15.0	2692	900	285	230	214	717	205
17.5	2607	615	218	189	169	603	
20.0	2542	432	175	145	128	522	
22.5	2426	307	142	108	90	454	
25.0	2157	217	114	77	67	380	169
27.5	1734	156	90	59	52	299	
30.0	1271	116	71	47	41	223	
32.5	862	90	55	38	32	157	
35.0	542	72	43	31	27	107	72
37.5	322	58	35	26	23	73	
40.0	187	47	30	23	20	51	
42.5	110	38	25	20	19	37	
45.0	66	30	21	18	18	28	23
47.5	40	25	18	16	16	22	
50.0	27	20	16	15	15	18	
52.5	20	17	14	13	13	15	
55.0	17	14	12	12	12	13	12
57.5	15	12	11	11	10	12	
60.0	14	11	10	9	9	10	
62.5	13	10	9	8	8	9	
65.0	12	9	8	7	7	8	8
67.5	11	8	7	7	6	7	
70.0	10	7	6	6	5	7	
72.5	8	6	5	5	4	6	
75.0	7	5	5	4	3	5	5
77.5	5	4	4	3	3	4	
80.0	4	3	3	2	2	3	
82.5	3	2	2	2	1	2	
85.0	2	1	1	1	0	1	1
87.5	1	1	0	0	0	0	
90.0	0	0	0	0	0	0	



COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

CC WALL	90				80				70				50				30				10				0
	70	50	30	10	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																									
0	1.221	.221	.221	.22	1.191	.191	.191	.19	1.161	.161	.161	.16	1.111	.111	.111	.11	1.061	.061	.06	1.021	.021	.02	1.00		
1	1.171	.141	.121	.10	1.151	.121	.101	.09	1.121	.111	.091	.07	1.061	.051	.04	1.031	.021	.01	0.990	.980	.98	0.96			
2	1.121	.091	.061	.02	1.111	.071	.041	.01	1.091	.051	.021	.00	1.021	.000	.98	0.990	.980	.96	0.970	.950	.94	0.92			
3	1.091	.030	.990	.96	1.071	.020	.990	.95	1.051	.010	.980	.95	0.990	.960	.93	0.960	.940	.92	0.940	.920	.91	0.89			
4	1.050	.990	.950	.92	1.040	.980	.940	.91	1.020	.970	.940	.90	0.950	.920	.89	0.930	.910	.89	0.920	.890	.88	0.86			
5	1.020	.950	.900	.87	1.000	.940	.900	.87	0.990	.930	.890	.86	0.920	.880	.86	0.900	.870	.85	0.890	.860	.84	0.83			
6	0.990	.920	.870	.84	0.970	.910	.870	.84	0.960	.900	.860	.83	0.890	.850	.83	0.880	.850	.82	0.870	.840	.82	0.81			
7	0.950	.880	.840	.81	0.940	.880	.830	.80	0.930	.870	.830	.80	0.860	.820	.80	0.850	.810	.79	0.840	.810	.79	0.78			
8	0.930	.850	.810	.78	0.920	.850	.800	.77	0.910	.840	.800	.77	0.830	.790	.77	0.820	.790	.77	0.810	.780	.76	0.75			
9	0.890	.820	.780	.74	0.890	.820	.780	.74	0.880	.810	.770	.74	0.800	.770	.74	0.800	.760	.74	0.790	.760	.74	0.73			
10	0.870	.790	.750	.72	0.860	.790	.750	.72	0.850	.790	.750	.72	0.780	.740	.72	0.770	.740	.72	0.770	.740	.71	0.70			

THE ABOVE COEFFICIENTS HAVE BEEN CALCULATED BASED ON LUMINAIRE LUMENS
 BECAUSE IN AN ABSOLUTE TEST THE BARE LAMP LUMENS ARE UNKNOWN.
 LIGHTING DESIGN CALCULATIONS MADE USING THESE COEFFICIENTS SHOULD
 THEREFORE USE THE LUMINAIRE LUMENS IN THE CALCULATION FORMULA

LABORATORY RESULTS MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
 BALLAST AND FIELD FACTORS HAVE NOT BEEN APPLIED.

TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST
 LUMINOUS OPENING OF LUMINAIRE.

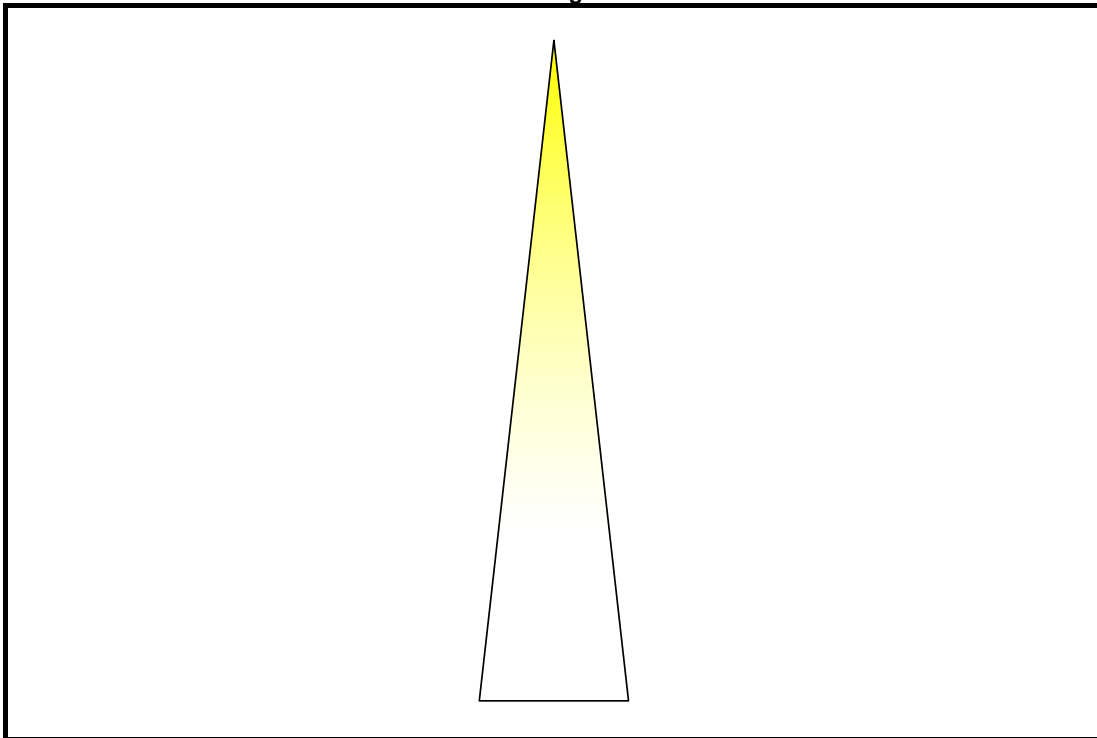


Cone of Light

Cone Of Light Tabulation

Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	247	0.876
6.00	110	1.31
8.00	61.8	1.75
10.0	39.6	2.19
12.0	27.5	2.63
14.0	20.2	3.06
16.0	15.5	3.50

Cone of Light Plot





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Javier Caban, Technician

Approved By

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Eric Gaudreau, Engineering Project Handler

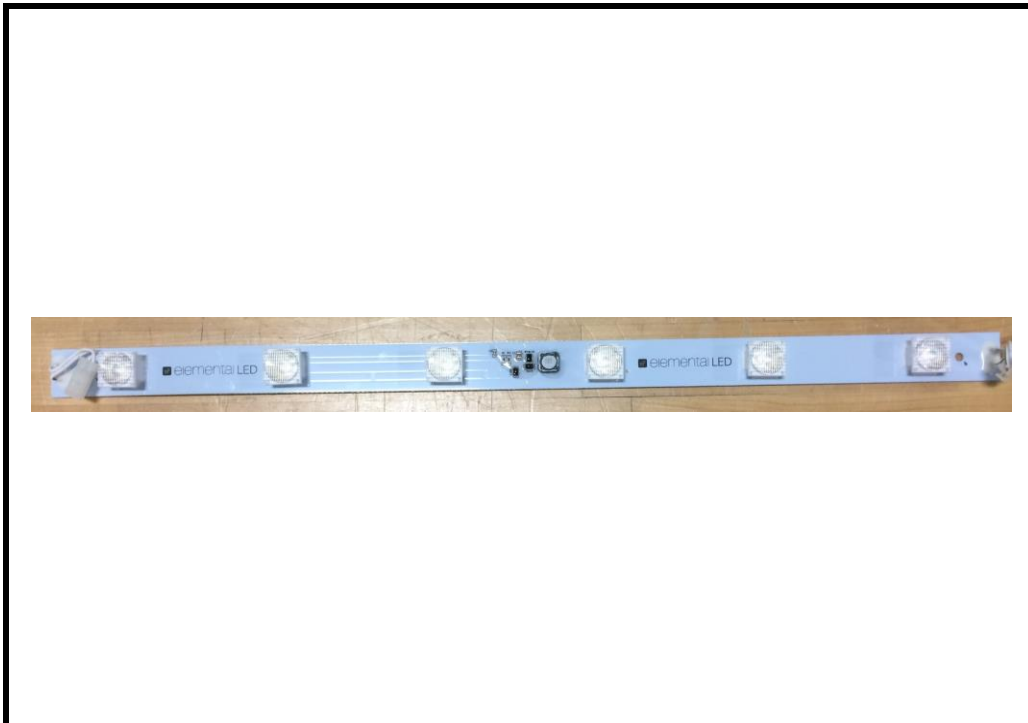
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610-774-1300

Luminaire Description: LED Board
Catalog Number: Equiflux LED Graphics Display Light-24" EL-24V-EQUI-6500-24-1055
Lamp: Six white LEDs with patterned plastic optics below each
Mounting: Surface
Ballast/Driver: One Meanwell LPV-60-24

Luminaire

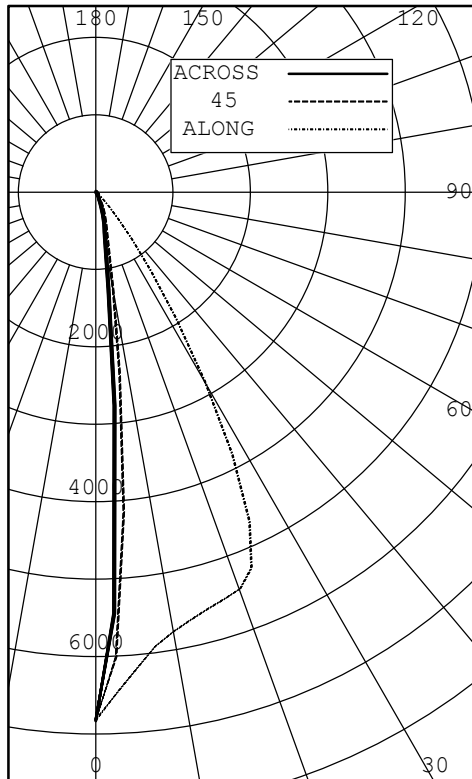


Test Conditions

Test Temperature:	25.2 °C
Voltage:	120.0 VAC
Current:	0.3199 A
Power:	19.62 W
Power Factor:	0.511
Frequency:	60 Hz
Current THD:	164 %



INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS



ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	6820	6820	6820	6820	6820	
5	6169	5663	4142	3134	2771	346
10	5769	3468	1294	817	716	
15	5581	1769	564	473	429	411
20	5454	839	361	264	218	
25	4698	421	228	128	109	354
30	2829	239	134	78	66	
35	1245	154	79	54	47	155
40	465	98	54	43	40	
45	159	62	40	35	38	49
50	57	40	31	31	32	
55	33	28	24	24	25	24
60	27	22	20	19	18	
65	24	18	16	15	14	17
70	22	15	12	11	10	
75	14	11	10	8	7	10
80	10	8	7	5	4	
85	6	4	4	2	1	4
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	1111	81.05
0-40	1266	92.39
0-60	1340	97.74
0-90	1371	100.00
40-90	104	7.61
60-90	31	2.26
90-180	0	0.00
0-180	1371	100.00

EFFICACY (LUMENS PER WATT): 69.9

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS LENGTH: 22.750 INS
 WIDTH: 1.125 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 0.2
 SC (ALONG): 0.9, SC (ACROSS): 0.2

ANGLE	ALONG	45	ACROSS
45	13635	3421	3284
55	3510	2591	2649
65	3482	2272	1949
75	3299	2225	1608
85	3960	2438	662

TESTED IN ACCORDANCE WITH IES PROCEDURES.



INTENSITY (CANDLEPOWER) DATA
 IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0.0	6820	6820	6820	6820	6820	6820	
2.5	6465	6537	6009	5626	5448	6032	
5.0	6169	5663	4142	3134	2771	4352	346
7.5	5921	4549	2363	1478	1258	2995	
10.0	5769	3468	1294	817	716	2205	
12.5	5663	2527	796	582	535	1751	
15.0	5581	1769	564	473	429	1453	411
17.5	5513	1214	446	372	314	1236	
20.0	5454	839	361	264	218	1075	
22.5	5254	595	293	184	149	943	
25.0	4698	421	228	128	109	795	354
27.5	3816	309	175	97	85	633	
30.0	2829	239	134	78	66	475	
32.5	1933	191	101	64	54	337	
35.0	1245	154	79	54	47	233	155
37.5	770	123	65	48	43	161	
40.0	465	98	54	43	40	112	
42.5	274	78	46	39	39	80	
45.0	159	62	40	35	38	59	49
47.5	93	50	35	34	36	46	
50.0	57	40	31	31	32	36	
52.5	40	33	27	27	29	30	
55.0	33	28	24	24	25	27	24
57.5	30	25	22	22	21	23	
60.0	27	22	20	19	18	21	
62.5	25	20	18	17	16	19	
65.0	24	18	16	15	14	17	17
67.5	23	17	14	13	12	15	
70.0	22	15	12	11	10	14	
72.5	16	13	11	9	8	11	
75.0	14	11	10	8	7	10	10
77.5	12	10	8	6	6	8	
80.0	10	8	7	5	4	7	
82.5	8	6	5	3	2	5	
85.0	6	4	4	2	1	3	4
87.5	4	3	2	1	0	2	
90.0	0	0	0	0	0	0	



COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

CC WALL	90				80				70				50				30				10				0	
	70	50	30	10	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR	0	1.221	.221	.221	.22	1.191	.191	.191	.19	1.161	.161	.161	.16	1.111	.111	.111	.11	1.061	.061	.061	.06	1.021	.021	.021	.02	1.00
	1	1.171	.141	.121	.10	1.151	.121	.101	.08	1.121	.101	.081	.07	1.061	.051	.03	1.021	.011	.00	0.990	.980	.97	0.96			
	2	1.121	.081	.051	.02	1.101	.071	.041	.01	1.081	.051	.021	.00	1.020	.990	.97	0.990	.970	.95	0.960	.950	.93	0.92			
	3	1.081	.030	.990	.96	1.071	.020	.980	.95	1.051	.000	.970	.94	0.980	.950	.93	0.960	.940	.91	0.940	.920	.90	0.89			
	4	1.050	.990	.940	.91	1.030	.980	.940	.90	1.020	.970	.930	.90	0.950	.910	.89	0.930	.900	.88	0.910	.890	.87	0.86			
	5	1.010	.950	.900	.86	1.000	.940	.890	.86	0.980	.930	.880	.86	0.910	.870	.85	0.890	.860	.84	0.880	.860	.83	0.82			
	6	0.980	.910	.860	.83	0.970	.900	.860	.83	0.950	.890	.850	.82	0.880	.850	.82	0.870	.840	.81	0.860	.830	.81	0.80			
	7	0.940	.870	.830	.80	0.930	.870	.820	.79	0.920	.860	.820	.79	0.850	.810	.79	0.840	.800	.78	0.830	.800	.78	0.77			
	8	0.920	.840	.800	.77	0.910	.840	.790	.76	0.900	.830	.790	.76	0.820	.780	.76	0.810	.780	.75	0.800	.770	.75	0.74			
	9	0.880	.810	.760	.73	0.880	.810	.760	.73	0.870	.800	.760	.73	0.790	.750	.73	0.790	.750	.72	0.780	.750	.72	0.71			
	10	0.860	.780	.740	.71	0.850	.780	.740	.70	0.840	.780	.740	.70	0.770	.730	.70	0.760	.730	.70	0.760	.720	.70	0.69			

THE ABOVE COEFFICIENTS HAVE BEEN CALCULATED BASED ON LUMINAIRE LUMENS
 BECAUSE IN AN ABSOLUTE TEST THE BARE LAMP LUMENS ARE UNKNOWN.
 LIGHTING DESIGN CALCULATIONS MADE USING THESE COEFFICIENTS SHOULD
 THEREFORE USE THE LUMINAIRE LUMENS IN THE CALCULATION FORMULA

LUMINAIRE INPUT WATTS 19.6

LABORATORY RESULTS MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
 BALLAST AND FIELD FACTORS HAVE NOT BEEN APPLIED.

TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST
 LUMINOUS OPENING OF LUMINAIRE.



Cone of Light

Cone Of Light Tabulation

Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	431	0.921
6.00	192	1.38
8.00	108	1.84
10.0	69.0	2.30
12.0	47.9	2.76
14.0	35.2	3.22
16.0	26.9	3.68

Cone of Light Plot

