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Photometric Test Report

Relevant Standards
IES LM-79-2008
ANSI C82.77-2002

Prepared For
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Catalog Number
LF #EF6-C-08L-8030-SL-D2-048-U-WW (120V)

Order Number
10946826
Test Number
1153000

Test Date

2015-09-01

Prepared By

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Approved By

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The results contained in this report pertain only to the tested sample.
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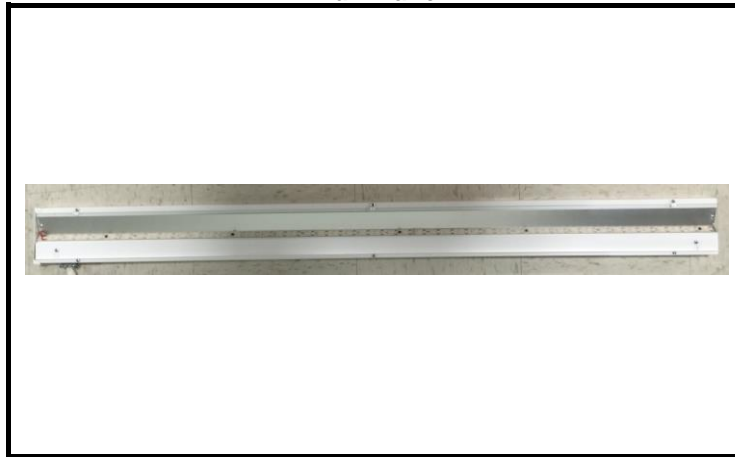
Laboratory results may not be representative of field performance
Ballast factors have not been applied

Testing was performed in a 2-meter integrating sphere using the 4π geometry method.
Absorption correction was employed for Sphere measurement



Luminaire Description: White steel housing, specular reflector, frosted plastic lens
Lamp: 96 white LEDs
Mounting: Surface
Ballast/Driver: One Everline D15CC55UNVT-C

Luminaire



Luminaire Characteristics

Luminous Length: 47.88 in.
Luminous Width: 2.000 in.

Summary of Results

Integrating Sphere

Luminous Flux: 3482 Lumens
Efficacy: 103.7 lm/w
CCT: 3082 K
CRI (Ra): 81.8

Distribution

Total Luminaire Output: 3328 Lumens
Luminaire Efficacy: 99.3 lm/w
Maximum Candela: 1871 Candela

Electrical Data at 120 VAC

Test Temperature: 25.2 °C
Voltage: 120.0 VAC
Current: 0.2805 A
Power: 33.57 W
Power Factor: 0.997
Frequency: 60 Hz
Current THD: 6.16 %



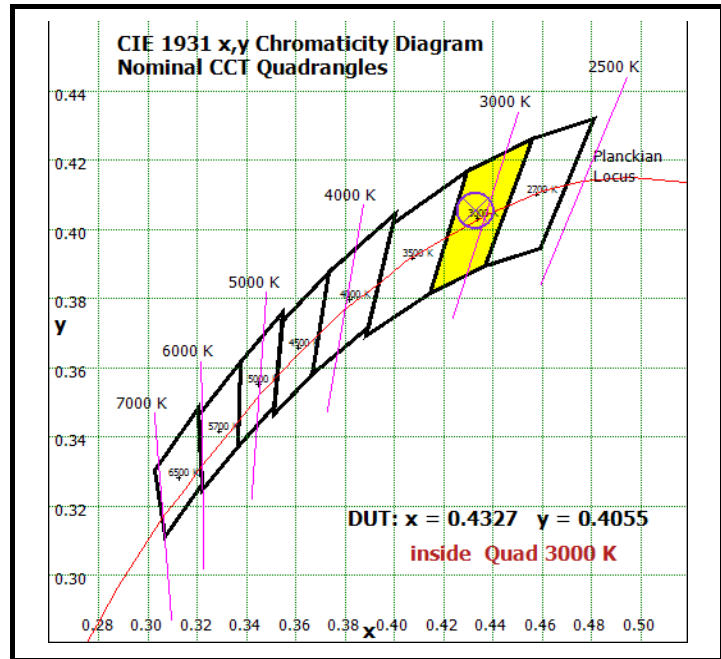
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.2 °C	120.0 VAC	0.2805 A	33.57 W	0.997	60 Hz	6.16 %

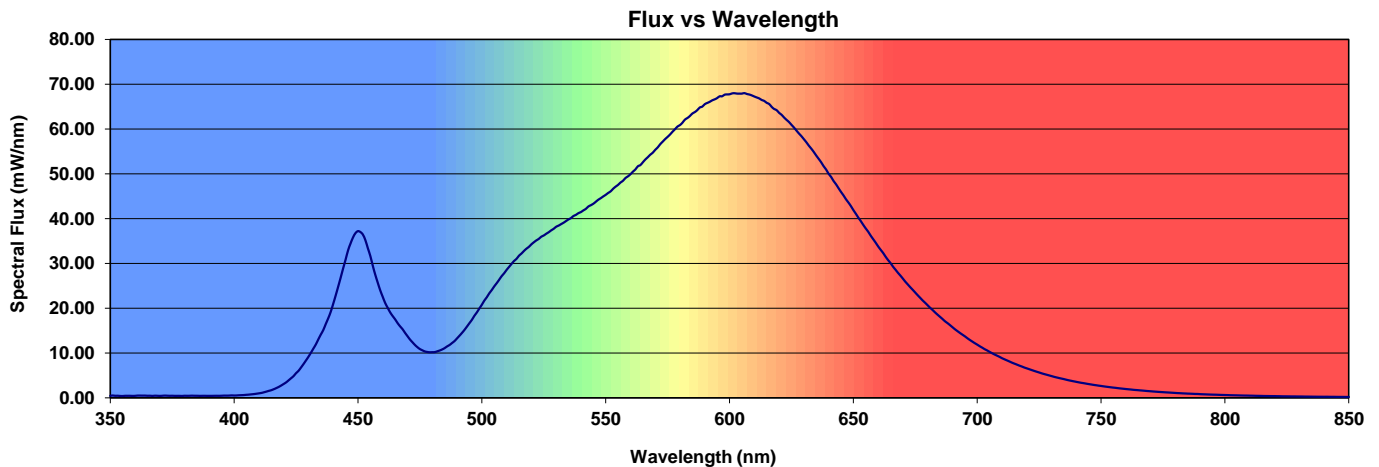
Summary of Results

Total Output:	3482 Lumens
Efficacy:	103.7 lm/w
CCT:	3082 K
CRI (Ra):	81.8
CRI (R9):	9.0
Chromaticity (x):	0.4327
Chromaticity (y):	0.4055
Chromaticity (u):	0.2472
Chromaticity (v):	0.3476
Chromaticity (u')	0.2472
Chromaticity (v')	0.5213
Duv:	0.0006



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81.8	79.9	88.0	95.2	80.9	79.5	84.5	84.9	61.6	9.0	72.3	79.6	65.1	81.5	97.1





Distribution - Goniophotometer

Distribution Test Conditions

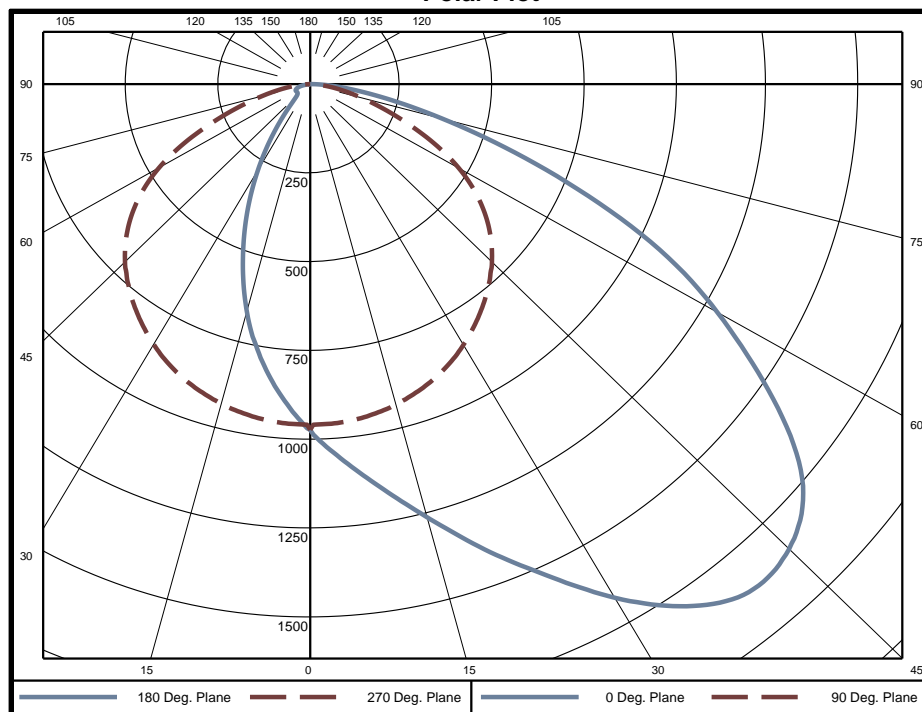
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.9 °C	120.0 VAC	0.2802 A	33.52 W	0.997	60 Hz	6.18 %

Summary of Results

Spacing Criteria
 0-180: 2.34
 90-270: 0.68

Total Lumen Output: 3328 Lumens
Luminaire Efficacy: 99.3 lm/w
Maximum Candela: 1871 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	23.3	0.7%	60-65	260.2	7.8%	120-125	0	0.0%
5-10	69.2	2.1%	65-70	196.6	5.9%	125-130	0	0.0%
10-15	113.7	3.4%	70-75	128.1	3.8%	130-135	0	0.0%
15-20	156.0	4.7%	75-80	73.4	2.2%	135-140	0	0.0%
20-25	195.8	5.9%	80-85	34.0	1.0%	140-145	0	0.0%
25-30	232.8	7.0%	85-90	8.3	0.2%	145-150	0	0.0%
30-35	266.7	8.0%	90-95	0.2	0.0%	150-155	0	0.0%
35-40	295.9	8.9%	95-100	0	0.0%	155-160	0	0.0%
40-45	317.5	9.5%	100-105	0	0.0%	160-165	0	0.0%
45-50	328.8	9.9%	105-110	0	0.0%	165-170	0	0.0%
50-55	325.4	9.8%	110-115	0	0.0%	170-175	0	0.0%
55-60	302.1	9.1%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	1353	40.7%
0-60	2627	78.9%
0-90	3328	100.0%
90-180	0	0.0%



Candela Tabulation
Horizontal Angle (Degrees)

Vertical Angle (Degrees)	Horizontal Angle (Degrees)															
	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5
0	974	974	974	974	974	974	974	974	974	974	974	974	974	974	974	974
5	1066	1058	1034	1007	957	938	907	891	885	891	907	938	957	1007	1034	1058
10	1159	1140	1091	1032	947	894	833	797	783	797	833	894	947	1032	1091	1140
15	1269	1235	1152	1053	932	844	750	691	668	691	750	844	932	1053	1152	1235
20	1394	1344	1218	1071	910	787	658	570	539	570	658	787	910	1071	1218	1344
25	1525	1462	1291	1087	882	723	554	448	414	448	554	723	882	1087	1291	1462
30	1671	1586	1368	1101	846	646	445	331	295	331	445	646	846	1101	1368	1586
35	1795	1703	1443	1112	805	560	341	224	189	224	341	560	805	1112	1443	1703
40	1867	1783	1505	1116	759	470	243	135	107	135	243	470	759	1116	1505	1783
45	1852	1785	1535	1109	708	377	158	78	62	78	158	377	708	1109	1535	1785
50	1760	1707	1509	1087	646	286	98	52	46	52	98	286	646	1087	1509	1707
55	1546	1530	1400	1036	569	206	67	45	42	45	67	206	569	1036	1400	1530
60	1286	1275	1202	933	473	143	54	45	43	45	54	143	473	933	1202	1275
65	997	990	927	739	354	103	51	46	44	46	51	103	354	739	927	990
70	656	649	607	490	235	77	49	44	41	44	49	77	235	490	607	649
75	371	370	348	284	142	55	41	37	33	37	41	55	142	284	348	370
80	180	183	174	144	77	34	27	23	20	23	27	34	77	144	174	183
85	68	69	66	54	28	12	6	2	1	2	6	12	28	54	66	69
90	6	6	4	2	0	0	0	1	1	1	0	0	0	2	4	6
95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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

Average Luminance (cd/m²)
Horizontal Angle (Degrees)

Vertical Angle (Degrees)	Horizontal Angle (Degrees)		
	0	45	90
0	15760	15760	15760
45	42400	35150	16210
55	43640	39510	16050
65	38200	35520	13540
75	23220	21780	8895
85	12630	12240	5273



Utilization of Lumens - Zonal Cavity Method

Effective Floor Cavity Reflectance 20%

Ceiling Cavity Reflectance	80				70				50			30			10			0
Wall Reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio (RCR)	** Values are expressed as Lumens delivered to the task surface **																	
0	3962	3962	3962	3962	3869	3869	3869	3869	3697	3697	3697	3540	3540	3540	3396	3396	3396	3328
1	3620	3461	3318	3190	3529	3385	3255	3138	3243	3136	3038	3113	3026	2945	2993	2923	2858	2788
2	3281	3002	2771	2577	3192	2939	2726	2546	2820	2641	2486	2710	2561	2429	2609	2485	2375	2302
3	2978	2619	2341	2120	2894	2566	2308	2100	2466	2244	2062	2373	2184	2026	2287	2127	1990	1916
4	2714	2304	2004	1775	2636	2259	1979	1762	2175	1930	1737	2096	1884	1713	2023	1840	1689	1615
5	2485	2045	1737	1510	2414	2007	1718	1501	1935	1680	1484	1869	1644	1468	1806	1609	1451	1378
6	2286	1830	1523	1304	2221	1797	1508	1297	1736	1478	1285	1679	1449	1273	1626	1421	1261	1191
7	2112	1649	1350	1139	2053	1622	1337	1135	1570	1313	1126	1521	1289	1117	1475	1267	1108	1040
8	1960	1498	1207	1007	1907	1474	1196	1003	1429	1177	997	1387	1158	990	1347	1139	983	918
9	1827	1368	1088	898	1778	1348	1079	896	1309	1063	890	1273	1047	885	1238	1032	880	818
10	1709	1258	988	808	1665	1240	981	806	1206	967	802	1174	954	798	1144	941	794	734

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	60.9	5.67
6.00	27.1	8.50
8.00	15.2	11.3
10.0	9.74	14.2
12.0	6.76	17.0
14.0	4.97	19.8
16.0	3.80	22.7

Cone of Light Plot

