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Photometric Test Report

Relevant Standards
IES LM-79-2008
ANSI C82.77-2002
UL1598-2008

Prepared For
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C4242SS1B30AXXX
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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 3-meter integrating sphere using the 4π geometry method.
Absorption correction was employed for Sphere measurement



Luminaire Description: Formed white enamel steel housing / reflector, frosted plastic lens, no enclosure
Lamp: 112 white LEDs
Mounting: Recessed
Ballast/Driver: One Everline D10CC55UNVTZ-C

Luminaire



Luminaire Characteristics

Luminous Length: 46.50 in.
Luminous Width: 23.00 in.

Summary of Results

Integrating Sphere

Luminous Flux: 3375 Lumens
Efficacy: 110.3 lm/w
CCT: 3528 K
CRI (Ra): 84.6

Distribution

Total Luminaire Output: 3252 Lumens
Luminaire Efficacy: 106.3 lm/w
Maximum Candela: 1111 Candela

Electrical Data at 277 VAC

Test Temperature: 24.6 °C
Voltage: 277.0 VAC
Current: 0.1172 A
Power: 31.29 W
Power Factor: 0.964
Frequency: 60 Hz
Current THD: 7.74 %

In-Situ

LED Temperature: 50.2 °C
Driver Temperature: 35.9 °C
Maximum LED Current: 0.08040 A

Temperature is offset to an ambient temperature of 25°C as described in UL1598-2008.



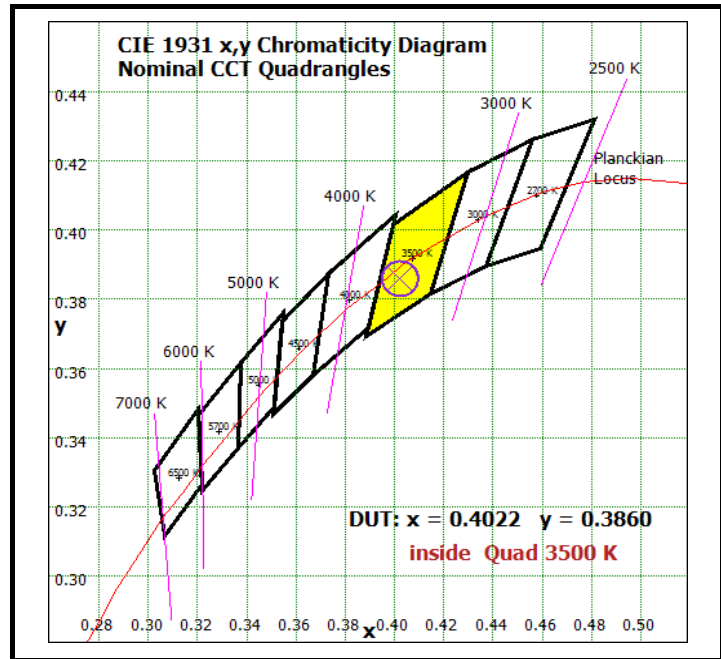
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.5 °C	120.0 VAC	0.2557 A	30.59 W	0.997	60 Hz	6.66 %

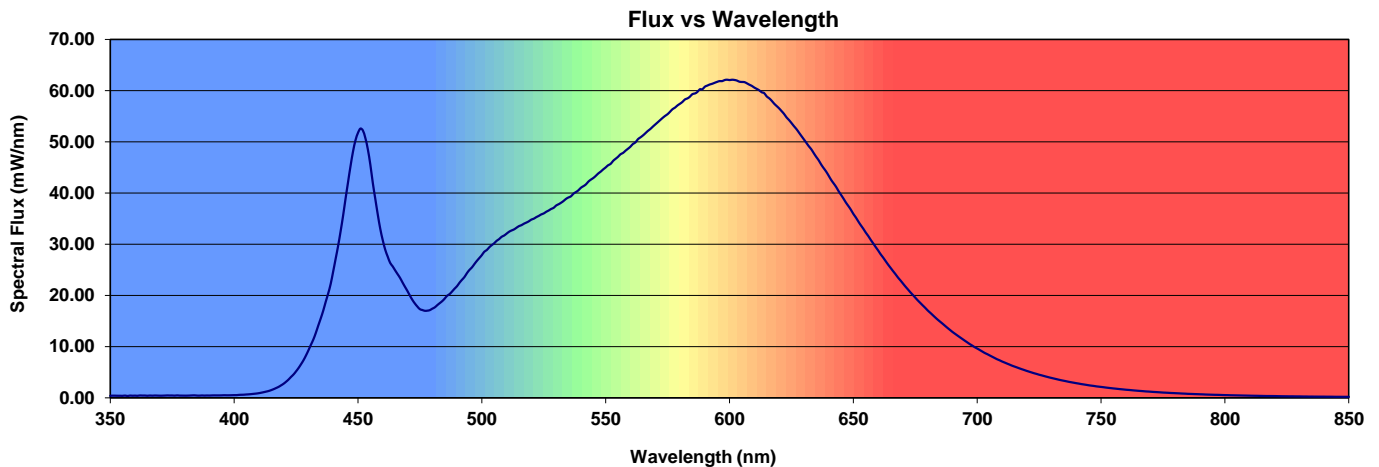
Summary of Results

Total Output:	3375 Lumens
Efficacy:	110.3 lm/w
CCT:	3528 K
CRI (Ra):	84.6
CRI (R9):	16.4
Chromaticity (x):	0.4022
Chromaticity (y):	0.3860
Chromaticity (u):	0.2356
Chromaticity (v):	0.3392
Chromaticity (u')	0.2356
Chromaticity (v')	0.5088
Duv:	-0.0015



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
84.6	83.2	91.7	96.4	82.9	83.7	88.8	85.2	65.1	16.4	80.6	82.2	71.7	85.4	98.5





Distribution - Goniophotometer

Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.2 °C	120.0 VAC	0.2559 A	30.60 W	0.997	60 Hz	6.68 %

Summary of Results

Spacing Criteria

0-180: 1.18
90-270: 1.18

Total Lumen Output:

3252 Lumens

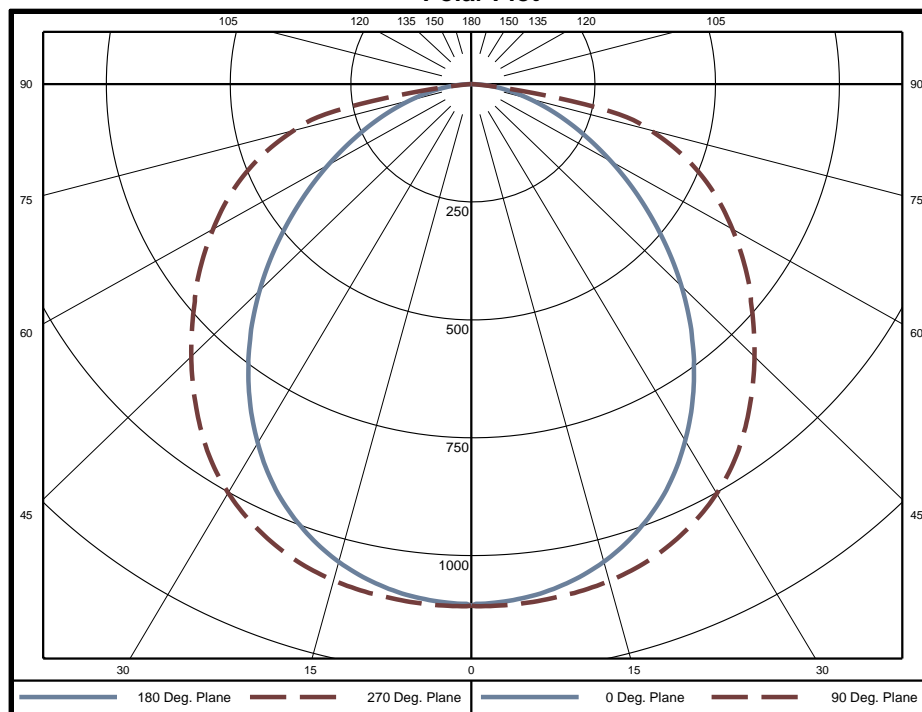
Luminaire Efficacy:

106.3 lm/w

Maximum Candela:

1111 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	26.4	0.8%	60-65	220.3	6.8%	120-125	0	0.0%
5-10	78.5	2.4%	65-70	193.7	6.0%	125-130	0	0.0%
10-15	128.3	3.9%	70-75	162.4	5.0%	130-135	0	0.0%
15-20	174.0	5.4%	75-80	123.5	3.8%	135-140	0	0.0%
20-25	213.9	6.6%	80-85	58.5	1.8%	140-145	0	0.0%
25-30	246.1	7.6%	85-90	7.8	0.2%	145-150	0	0.0%
30-35	269.0	8.3%	90-95	0	0.0%	150-155	0	0.0%
35-40	281.5	8.7%	95-100	0	0.0%	155-160	0	0.0%
40-45	283.8	8.7%	100-105	0	0.0%	160-165	0	0.0%
45-50	277.2	8.5%	105-110	0	0.0%	165-170	0	0.0%
50-55	263.2	8.1%	110-115	0	0.0%	170-175	0	0.0%
55-60	243.6	7.5%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	1418	43.6%
0-60	2486	76.4%
0-90	3252	100.0%
90-180	0	0.0%



Candela Tabulation
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	1106	1106	1106	1106	1106	1106	1106	1106	1106	1106	1106	1106	1106	1106	1106	1106
5	1096	1105	1099	1103	1107	1103	1099	1105	1096	1105	1099	1103	1107	1103	1099	1105
10	1079	1089	1089	1096	1100	1096	1089	1089	1079	1089	1089	1096	1100	1096	1089	1089
15	1049	1062	1069	1083	1090	1083	1069	1062	1049	1062	1069	1083	1090	1083	1069	1062
20	1006	1023	1039	1061	1071	1061	1039	1023	1006	1023	1039	1061	1071	1061	1039	1023
25	949	972	1000	1029	1041	1029	1000	972	949	972	1000	1029	1041	1029	1000	972
30	878	908	949	987	1001	987	949	908	878	908	949	987	1001	987	949	908
35	796	832	887	933	948	933	887	832	796	832	887	933	948	933	887	832
40	706	748	815	868	883	868	815	748	706	748	815	868	883	868	815	748
45	613	659	737	798	815	798	737	659	613	659	737	798	815	798	737	659
50	517	566	658	728	746	728	658	566	517	566	658	728	746	728	658	566
55	423	473	578	661	681	661	578	473	423	473	578	661	681	661	578	473
60	336	386	504	593	613	593	504	386	336	386	504	593	613	593	504	386
65	257	307	437	527	544	527	437	307	257	307	437	527	544	527	437	307
70	188	238	372	452	468	452	372	238	188	238	372	452	468	452	372	238
75	127	179	298	364	377	364	298	179	127	179	298	364	377	364	298	179
80	77	123	212	233	207	233	212	123	77	123	212	233	207	233	212	123
85	35	60	63	28	19	28	63	60	35	60	63	28	19	28	63	60
90	2	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1
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)

	0	45	90
0	1603	1603	1603
45	1256	1511	1670
55	1069	1460	1721
65	881	1500	1867
75	712	1669	2111
85	574	1050	320



Utilization of Lumens - Zonal Cavity Method

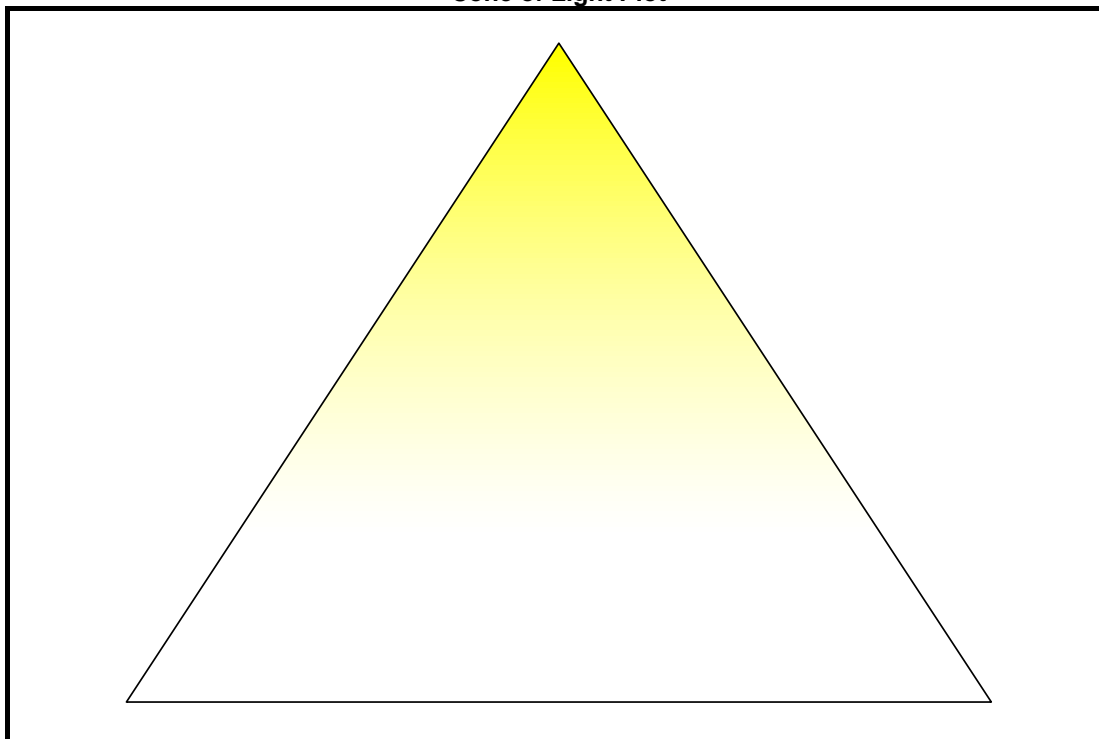
Effective Floor Cavity Reflectance 20%

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	3871	3871	3871	3871	3781	3781	3781	3781	3613	3613	3613	3459	3459	3459	3318	3318	3318	3252
1	3521	3359	3214	3083	3432	3285	3153	3033	3146	3037	2936	3018	2929	2846	2900	2828	2761	2692
2	3191	2913	2683	2489	3104	2851	2639	2459	2734	2556	2401	2627	2477	2346	2527	2403	2293	2221
3	2903	2549	2276	2058	2820	2497	2243	2039	2399	2181	2002	2308	2123	1967	2224	2067	1932	1859
4	2654	2254	1961	1738	2578	2210	1937	1725	2128	1889	1701	2051	1844	1677	1980	1801	1654	1582
5	2439	2012	1714	1493	2370	1975	1695	1485	1905	1658	1468	1840	1622	1451	1780	1589	1435	1365
6	2252	1811	1514	1302	2189	1779	1499	1296	1720	1470	1284	1665	1442	1272	1613	1415	1260	1192
7	2088	1641	1352	1149	2031	1615	1340	1144	1564	1316	1136	1516	1293	1127	1472	1271	1118	1053
8	1944	1497	1217	1024	1892	1475	1207	1021	1431	1188	1014	1390	1169	1008	1352	1151	1001	938
9	1816	1374	1104	921	1769	1355	1096	919	1317	1080	914	1282	1064	909	1248	1049	904	843
10	1703	1268	1008	835	1660	1251	1001	833	1218	988	829	1188	975	825	1159	963	821	764

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	69.1	5.06
6.00	30.7	7.60
8.00	17.3	10.1
10.0	11.1	12.7
12.0	7.68	15.2
14.0	5.64	17.7
16.0	4.32	20.3

Cone of Light Plot





In-Situ Test

In-Situ Test Conditions

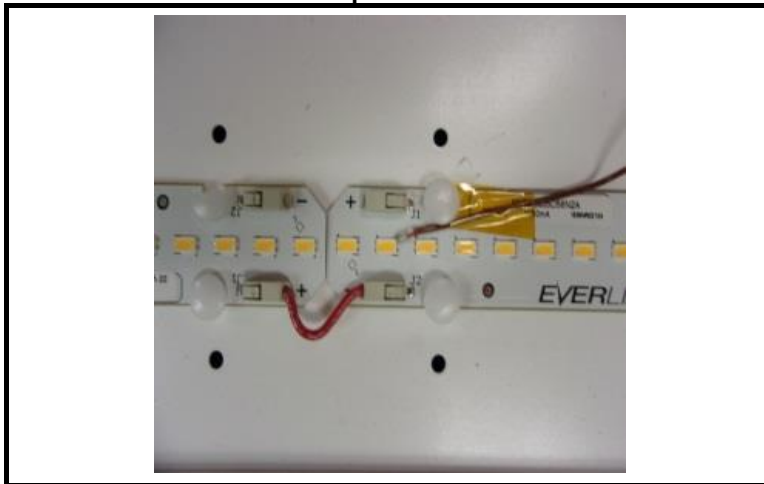
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
23.4 °C	120.0 VAC	N/A	N/A	N/A	60 Hz	N/A

Summary of Results

LED Temperature: 50.2 °C
Driver Temperature: 35.9 °C
Maximum LED Current: 0.08040 A

Temperatures are offset to an ambient temperature of 25°C as described in UL1598-2008

LED Temperature Location



Driver Temperature Location

