The Sign Syndicate.com - January 2016 Project Analysis

Started February 2014

Questions? Contact us admin@thesignsyndicate.com

MANUFACTURER	OPERATE HOURS	**GLASS / MODS USED	PRODUCT COST	***TOTAL LIGHT SOUCE COST	WATTS	FOOT CANDLE HIGH	FOOT CANDLE LOW	CURRENT FOOT CANDLE AVG.	INITAL FC FROM START	FC LOSS vs. INITIAL FC	FC AVG. LAST PERIOD	STATUS	MODIFY DATE	FC CHANGE FROM PREVIOUS PERIOD	*15 channel letters, 10 hrs a day annual cost	FOOT CANDLES PER WATT
Axiom AXLE9-XB	5,707	4 Mods	$2.00 / Mod	$8.00	6.4	316	296	306	325.5	5.99%	316.5		Added 8/29/14	3.32%	$31.70	47.81
13MM EGL CL65 (Tri 60ma)		2 FT			13.6						296					
15MM Voltarc 6500 SW	8,286	2 FT	$4.25 / Foot	$8.50	6.2	81	77	79	115	31.30%	94.5			16.40%	$30.71	12.74
13MM Voltarc 6500 SW	8,286	2 FT	$4.25 / Foot	$8.50	7.6	79	76	77.5	119.5	35.15%	92			15.76%	$37.64	10.20
15MM FMS TC 6500 (Tri)	8,286	2 FT	$4.25 / Foot	$8.50	6.2	162	155	158.5	191.5	17.23%	175			9.43%	$30.71	25.56
15MM Glostertube 6500 166 (Tri)	8,286	2 FT	$4.25 / Foot	$8.50	6.2	143	133	138	168	17.86%	155.5			11.25%	$30.71	22.26
13MM EGL DL65 (Tri)	8,286	2 FT	$4.25 / Foot	$8.50	7.6	144	136	140	179	21.79%	166			15.66%	$37.64	18.42
13MM Voltarc TriLight	8,286	2 FT	$4.25 / Foot	$8.50	7.6	123	116	119.5	152.5	21.64%	147			18.71%	$37.64	15.72
12MM FMS TC 6500 (Tri)	8,286	2 FT	$4.25 / Foot	$8.50	8.2	139	132	135.5	198	31.57%	160.5			15.58%	$40.61	16.52
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Permlight El Plato	8,286	2 Mods			6	263	244	253.5	272	6.80%	249.5			-1.60%	$29.72	42.25
GOQ LED	8,286	5 Mods			6.7	177	170	173.5	162	-7.10%	173.5			0.00%	$33.18	25.90
GE Tetra Power Max	8,286	3 mods			4.7	182	175	178.5	190	6.05%	177.5			-0.56%	$21.79	37.98
Principal LED Fusion 4	962	8 Mods				318	307	312.5	312.5	0.00%			Added 10/22/16			
Sloan GW4	8,286	4 Mods			4.3	197	189	193	202	4.46%	190.5			-1.31%	$21.30	44.88
Permlight Nitro Twister	8,286	4 mods			5	147	135	141	143.5	1.74%	139.5			-1.08%	$24.76	28.20
NC LED HLC 4 (Samsung) 1.8w	0	4 mods			7.2	276	253	264.5	264.5	0.00%			Added 01/03/16			36.74
Principcal LED Qwik Stik	3,068	1 Strip			5.3	308	247	277.5	282.5	1.77%	282.5		Added 04/05/15	1.77%		52.36

AMBIENT TEMPERATURE: 63 F | 01/03/16 +2,106 hrs

* This figure reflects the annual consumption rate it would cost a client to run the sign 10 hours in a 365 day period.

Formula: Watts x 15 x 10 hrs. x 365 days x $.095 / 1050 (HPF)

***Total cost for Neon lamp or LED modules only, wholesale.

OPERATE HOURS - Number of operating hours this product has been used in the test. Each product is cycled twice per day i.e. on 10 hours, off 2, turned on 10 hours off 2 in a 24 hour period

MODS USED - Number of LED modules used for that test compartment of that product

COST - The cost at a wholesale price per modules or by the foot

TOTAL COST - The total cost of modules used for that compartment

VOLTS - Volts to LED Power Supply at individual recording

AMPS - Amp draw at time of individual recording at 100% efficiency

WATTS - The energy consumption running at 100% efficiency and not taking the power supplies efficiency into account.

FOOT CANDLE MEASURING-----

For The Great White Hope Project we measure a small surface area on the face of each acrylic lens in the same area that is 6" x 7". We take the high and low measurement of each lens's surface light measurements in Foot Candles and average them out.

FOOT CANDLE HIGH - The highest light surface measurement taken on the acrylic lens

FOOT CANDLES LOW - The highest lowest surface measurement taken on the acrylic lens

CURRENT FOOT CANDLE AVG - The average between the high and low light measurements on the acrylic lens surface

INITIAL FC FROM START - This is the initial recorded light measurements for that compartment when the product entered into the test

FC LOSS VS INITIAL FC - The current light measurements versus the initial light measurements from the start

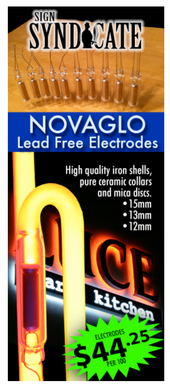
STATUS - Whether the product is active or inactive in the comparison

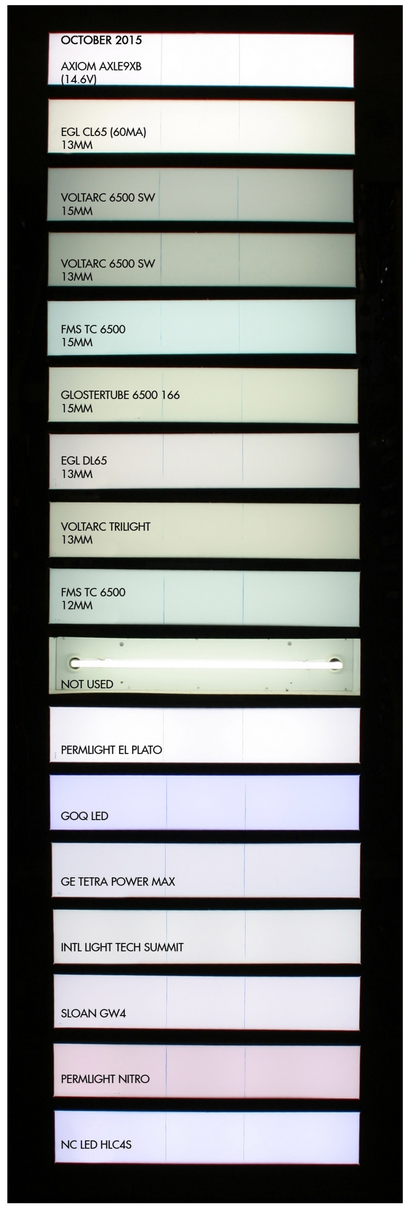
MODIFY DATE - The date when the product was activated or deactivated from the test

FC LOSS VS 1 MONTH AGO - The current light measurements vs the measurements from the previous month or evaluation

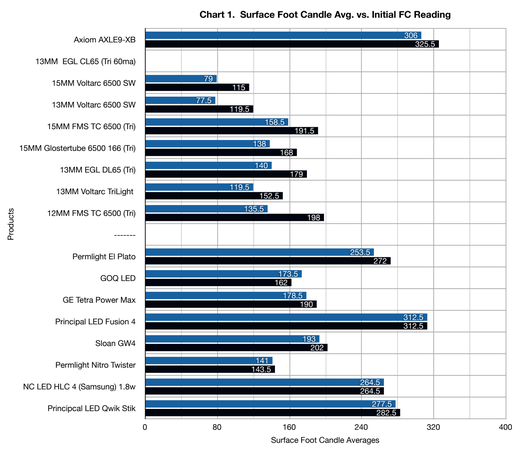
15 CHANNEL LETTER, 10 HRS A DAY ANNUAL COST - This is where we put this light source into a scenario where we multiply the single light source by 15 to simulate 15 letters. We then add in the cost of operation for a year running at 10 hours a day and on for 365 day a year. WATTS x 15 (simulated letters) x 1.15 (LED Power Supply efficiency averaged to 85%) x 10 (hours) x 365 (days a year) x $.95 (Kwh) / 1050 (HPF, Power Correction) =

FOOT CANDLES PER WATT - The measurement of surface foot candles per watt, **Current Foot Candle AVG** / **Watts** =

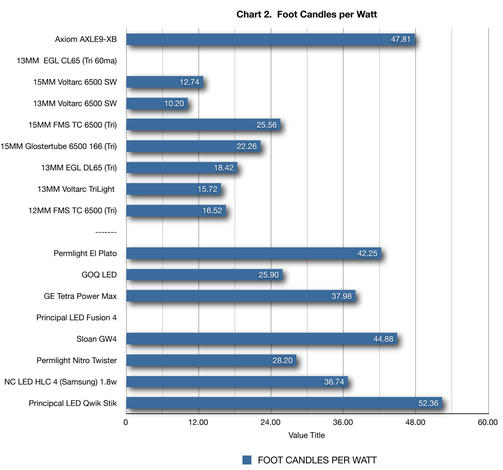


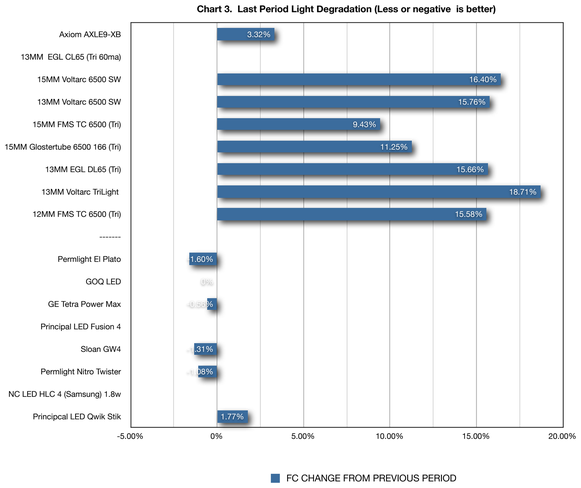


HRS LAST PERIOD	HRS THIS PERIOD	TOTAL OPERATION HOURS
4,745	962	5,707
7,324	0	7,324
7,324	962	8,286
7,324	962	8,286
7,324	962	8,286
7,324	962	8,286
7,324	962	8,286
7,324	962	8,286
0	0	0
7,324	962	8,286
7,324	962	8,286
7,324	962	8,286
0	962	962
7,324	962	8,286
7,324	962	8,286
0	0	0
2,106	962	3,068



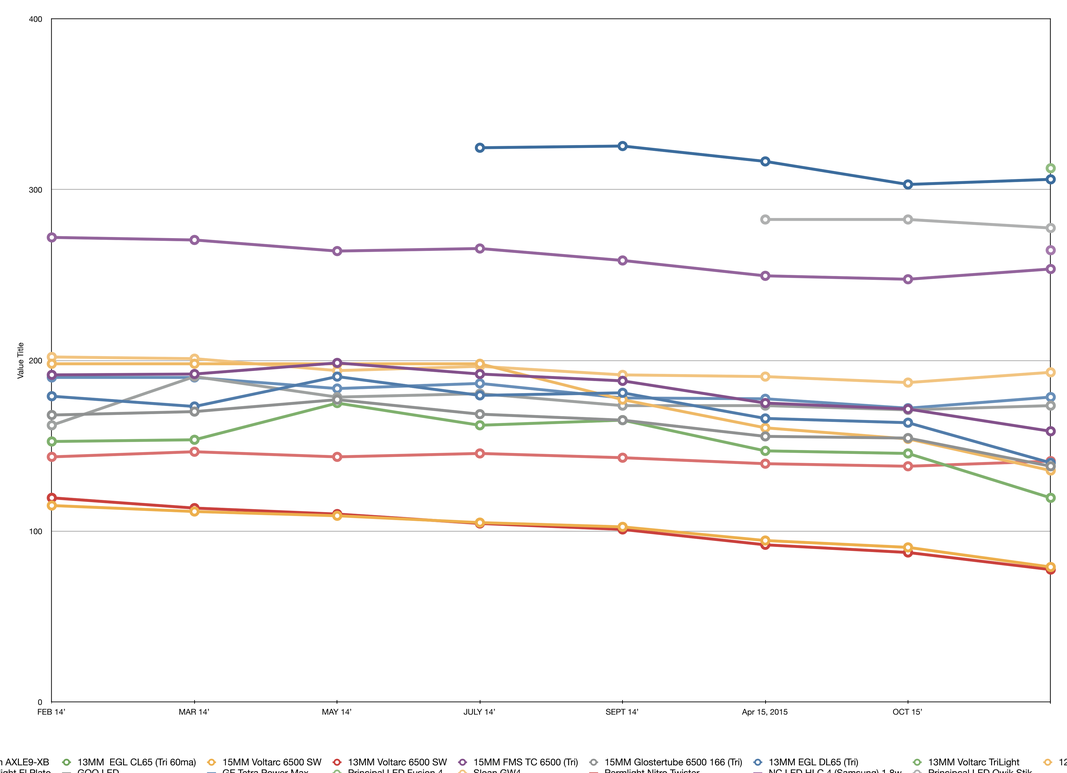
*Note: Not all products started at the same time. See Chart 4





PRODUCT	FEB 14'	MAR 14'	MAY 14'	JULY 14'	SEPT 14'	APR 15'	OCT 15'	JAN 16'
AMBIENT TEMPERATURE	59 F	68 F	86 F	74 F	80 F	74 F	71 F	63 F

PRODUCT	FEB 14'	MAR 14'	MAY 14'	JULY 14'	SEPT 14'	Apr 15, 2015	OCT 15'	
Axiom AXLE9-XB				324.5	325.5	316.5	303	306
13MM EGL CL65 (Tri 60ma)								
15MM Voltarc 6500 SW	115	111.5	109	105	102.5	94.5	90.5	79
13MM Voltarc 6500 SW	119.5	113.5	110	104.5	101	92	87.5	77.5
15MM FMS TC 6500 (Tri)	191.5	192	198.5	192	188	175	171.5	158.5
15MM Glostertube 6500 166 (Tri)	168	170	177	168.5	165	155.5	154.5	138
13MM EGL DL65 (Tri)	179	173	190.5	179.5	181	166	163.5	140
13MM Voltarc TriLight	152.5	153.5	175	162	165	147	145.5	119.5
12MM FMS TC 6500 (Tri)	198	198	198	198	177	160.5	154	135.5

Permlight El Plato	272	270.5	264	265.5	258.5	249.5	247.5	253.5
GOQ LED	162	190.5	178.5	180.5	173.5	173.5	171	173.5
GE Tetra Power Max	190	190	183.5	186.5	178	177.5	172	178.5
Principal LED Fusion 4								312.5
Sloan GW4	202	201	194	196.5	191.5	190.5	187	193
Permlight Nitro Twister	143.5	146.5	143.5	145.5	143	139.5	138	141
NC LED HLC 4 (Samsung) 1.8w								264.5
Principcal LED Qwik Stik						282.5	282.5	277.5

Surface Foot Candle Averages Over Project Span