

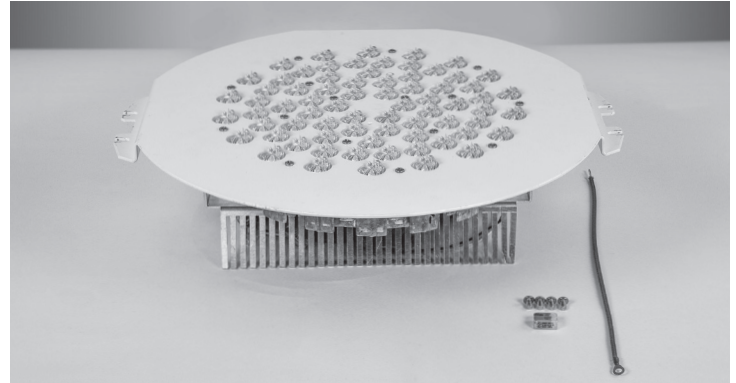
SRSK2
LED UPGRADE KIT

FEATURES

- TiR Optics
- Available in 580nm, 3000K, 4000K and 5000K standard CCT
- Type 1, 2, 3, 4W, 5QM, 5W distributions
- 0 - 10V dimming drivers standard
- IP66 optic assembly



Solitaire®



RELATED PRODUCTS

- Intent KFL LTV8

SPECIFICATIONS

CONSTRUCTION

- One piece non die-cast housing, low copper (<0.6% Cu) Aluminum Alloy with integral cooling ribs over the optical chamber and electrical compartment
- All hardware is stainless steel or electro-zinc plated steel
- Finish: fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat
- Silicone gaskets seal the compartments at the barrier surface.

INSTALLATION

- Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury

OPTICS

- Optical cartridge system consisting of a die cast heat sink, LED engine, TIR optics, gasket and bezel plate

OPTICS (CONTINUED)

- Cartridge is easily disassembled to replace components. Optics are held in place without the use of adhesives
- Molded silicone gasket ensures a weatherproof seal around each individual LED
- Features revolutionary individual LED optical control based on high performance TIR optical designs
- Optional BackLight Control for complete control of unwanted backlight
- IP66 Optical assembly
- Type 1, 2, 3, 4W, 5QM, and 5W standard distributions. Custom available
- Amber, 3000K, 4000K, 5000K standard CCT. Custom available
- Die-cast, low copper aluminum heat sink modules provide thermal transfer at PCB level

ELECTRICAL

- Dimming range from 10% to 100% through the use of standard 0-10V interface on the programmable driver
- Modular wiring harness in the service area provides user access to the dimming circuitry
- Optional factory programmed dimming profile
- Surge protection: 10kV surge suppression
- SF for 120, 277, 347 Line volts
DF for 208, 240, 480 Line volts
- Wiring: 14GA wires rated 150°C

CERTIFICATIONS AND LISTINGS

- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations
- RoHS compliant

WARRANTY

- 5 year warranty

ORDERING GUIDE

Kit	Engine	CCT/CRI	Distribution	Voltage	Fixture Finish
SRSK2 Solitaire 2.0	72L-260	72L - 260mA-6000lm	AM Amber-595nm Peak ¹	UNV 120-277V	BL Black
	72L-400	72L - 400mA-9000lm	3K7 3000K, 70 CRI	347 347V	DB Dark Bronze
	72L-600	72L - 600mA-14000lm	4K7 4000K, 70 CRI	480 480V	LG Light Gray
			5K7 5000K, 70 CRI	SF Single Fuse for 120, 277, 347 Line volts	GT Graphite
				DF Double Fuse for 208, 240, 480 Line volts	PS Platinum Silver
					TT Titanium
			1 Type I		WH White
			2 Type II		CC Custom Color ³
			3 Type III		
			4W Type IV Wide		
			5QM Type V Square Medium		
			5W Type V Wide (Round)		

¹ Consult factory for custom color

DELIVERED LUMENS

STANDARD CLEAR ACRYLIC LENS

LED #	Nominal Lumen Package	Drive Current	Distribution	3000K 70CRI					4000K 70CRI					5000K 70CRI				
				Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
					B	U	G			B	U	G			B	U	G	
72L	6,000	260	FR	6313	1	3	1	108.3	6487	1	3	1	111.2	7271	1	3	1	124.7
			FR-BC	3851	0	3	1	66.0	3957	0	3	1	67.9	4436	0	3	1	76.1
			2	6089	1	3	1	104.4	6256	1	3	1	107.3	7013	1	3	1	120.3
			2-BC	3221	0	3	1	55.2	3310	0	3	1	56.8	3710	0	3	1	63.6
			3	6206	1	3	2	106.4	6378	1	3	2	109.4	7149	1	3	2	122.6
			3-BC	3155	0	3	1	54.1	3242	0	3	1	55.6	3634	0	3	1	62.3
			4W	5812	1	3	2	99.7	5972	1	3	2	102.4	6694	1	3	2	114.8
			4W-BC	3314	0	3	1	56.8	3405	0	3	1	58.4	3817	0	3	1	65.5
			5QM	6148	2	3	1	105.4	6318	2	3	1	108.4	7082	2	3	1	121.5
	5W	6320	3	3	1	108.4	6494	3	3	1	111.4	7279	3	3	1	124.8		
	9,000	400	FR	9284	1	3	2	101.5	9540	1	3	2	104.3	10694	2	4	2	116.9
			FR-BC	5664	1	3	1	61.9	5820	1	3	1	63.6	6524	1	3	1	71.3
			2	8954	2	3	2	97.9	9201	2	3	2	100.6	10314	2	3	2	112.8
			2-BC	4737	0	3	1	51.8	4867	1	3	1	53.2	5456	1	3	1	59.7
			3	9128	2	3	2	99.8	9379	2	3	2	102.6	10514	2	3	2	115.0
			3-BC	4640	0	3	1	50.7	4768	0	3	1	52.1	5344	1	3	1	58.4
			4W	8547	1	3	2	93.5	8783	1	3	2	96.0	9845	2	3	2	107.7
			4W-BC	4873	1	3	2	53.3	5008	1	3	2	54.8	5613	1	3	2	61.4
			5QM	9042	3	3	1	98.9	9292	3	3	1	101.6	10415	3	3	1	113.9
	5W	9294	3	3	2	101.6	9551	3	3	2	104.4	10706	3	3	2	117.1		
	14,000	600	FR	13541	2	4	2	99.8	13915	2	4	2	102.6	15598	2	4	2	114.8
			FR-BC	8261	1	3	2	60.9	8489	1	3	2	62.6	9516	1	3	2	70.3
			2	13061	2	3	2	96.3	13421	2	3	2	99.0	15044	2	3	2	110.8
			2-BC	6909	1	3	1	50.9	7099	1	3	1	52.3	7958	1	3	1	58.8
			3	13314	2	3	2	98.3	13681	2	3	2	100.9	15336	2	3	2	112.4
			3-BC	6768	1	3	2	49.9	6954	1	3	2	51.3	7796	1	3	2	57.6
			4W	12467	2	3	3	91.9	12811	2	3	3	94.5	14360	2	3	3	105.8
			4W-BC	7108	1	3	2	52.4	7304	1	3	2	53.9	8188	1	3	2	60.6
5QM			13189	3	3	2	97.3	13553	3	3	2	99.9	15192	4	3	2	112.0	
5W	13557	4	3	2	100.0	13931	4	3	2	102.7	15616	4	3	2	115.1			

CRI Lumen Multiplier		
CCT	80 CRI	90 CRI
3000K	0.9119	0.7033
4000K	0.8941	N/A

Amber	
CCT	Multiplier
5000K	1
AM	0.1727

2700K Multiplier	
CCT	Multiplier
5000K	1
2700K	0.897

DELIVERED LUMENS (CONTINUED)

CP (CLEAR POLYCARBONATE) LENS

LED #	Nominal Lumen Package	Drive Current	Distribution	3000K 70CRI					4000K 70CRI					5000K 70CRI				
				Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
					B	U	G			B	U	G			B	U	G	
72L	6,000	260	FR	5819	1	3	1	99.8	5979	1	3	1	102.5	6703	1	3	1	114.9
			FR-BC	3550	0	3	1	60.9	3648	0	3	1	62.6	4089	0	3	1	70.1
			2	5612	1	3	1	96.3	5767	1	3	1	98.9	6465	1	3	1	110.9
			2-BC	2969	0	3	1	50.9	3051	0	3	1	52.3	3420	0	3	1	58.6
			3	5721	1	3	1	98.1	5879	1	3	1	100.8	6590	1	3	2	113.0
			3-BC	2908	0	3	1	49.9	2988	0	3	1	51.3	3350	0	3	1	57.4
			4W	5357	1	3	2	91.9	5505	1	3	2	94.4	6171	1	3	2	105.8
			4W-BC	3055	0	3	1	52.4	3139	0	3	1	53.8	3518	0	3	1	60.3
			5QM	5668	2	3	1	97.2	5824	2	3	1	99.9	6528	2	3	1	112.0
	5W	5826	3	3	1	99.9	5986	3	3	1	102.7	6710	3	3	1	115.1		
	9,000	400	FR	8558	1	3	2	93.6	8794	1	3	2	96.2	9857	1	3	2	107.8
			FR-BC	5221	0	3	1	57.1	5365	1	3	1	58.7	6014	1	3	1	65.8
			2	8254	1	3	1	90.3	8482	1	3	1	92.7	9508	2	3	2	104.0
			2-BC	4366	0	3	1	47.7	4487	0	3	1	49.1	5029	1	3	1	55.0
			3	8414	2	3	2	92.0	8646	2	3	2	94.5	9692	2	3	2	106.0
			3-BC	4277	0	3	1	46.8	4395	0	3	1	48.1	4927	1	3	1	53.9
			4W	7879	1	3	2	86.2	8096	1	3	2	88.5	9075	1	3	2	99.2
			4W-BC	4492	1	3	1	49.1	4616	1	3	1	50.5	5174	1	3	2	56.6
			5QM	8335	3	3	1	91.1	8565	3	3	1	93.7	9601	3	3	1	105.0
	5W	8568	3	3	2	93.7	8804	3	3	2	96.3	9869	3	3	2	107.9		
	14,000	600	FR	12483	2	4	2	92.1	12827	2	4	2	94.6	14378	2	4	2	106.0
			FR-BC	7615	1	3	2	56.2	7825	1	3	2	57.7	8772	1	3	2	64.7
			2	12040	2	3	2	88.8	12372	2	3	2	91.2	13868	2	3	2	102.3
			2-BC	6369	1	3	1	47.0	6544	1	3	1	48.3	7336	1	3	1	54.1
			3	12273	2	3	2	90.5	12611	2	3	2	93.0	14136	2	3	2	104.2
			3-BC	6239	1	3	2	46.0	6411	1	3	2	47.3	7186	1	3	2	53.0
			4W	11492	2	3	2	84.7	11809	2	3	2	87.1	13237	2	3	3	97.6
			4W-BC	6553	1	3	2	48.3	6733	1	3	2	49.7	7548	1	3	2	55.7
5QM			12158	3	3	2	89.7	12493	3	3	2	92.1	14004	3	3	2	103.3	
5W	12497	4	3	2	92.2	12842	4	3	2	94.7	14395	4	3	2	106.2			

WA (WHITE ACRYLIC) LENS

LED #	Nominal Lumen Package	Drive Current	Distribution	3000K 70CRI					4000K 70CRI					5000K 70CRI				
				Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
					B	U	G			B	U	G			B	U	G	
72L	6,000	260	3	4538	1	3	3	77.8	4663	1	3	3	80.0	5227	1	3	3	89.6
			5W	4621	2	3	2	79.3	4749	2	3	2	81.4	5323	2	3	3	91.3
	9,000	400	3	6674	2	3	3	73.0	6858	2	3	3	75.0	7688	2	3	3	84.1
			5W	6796	3	3	3	74.3	6984	3	3	3	76.4	7828	3	4	3	85.6
	14,000	600	3	9657	2	4	4	71.2	9924	2	4	4	73.2	11124	2	4	4	82.0
			5W	9992	3	4	3	73.7	10268	3	4	3	75.7	11509	3	4	4	84.6

SRSK2

LED UPGRADE KIT

PHOTOMETRY

SRS2-72L-600-4K7-1

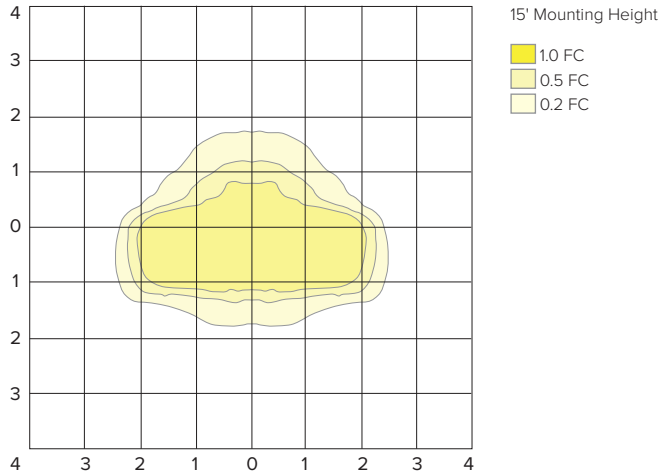
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	13915
Watts	135.6
Efficacy	102.6
IES Type	I
BUG Rating	B2-U4-G2
Mounting Height	15 ft
Grid Scale	15 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	10,473	75.3%
Downward House Side	2,428	17.4%
Downward Total	12,901	92.7%
Upward Street Side	441	3.2%
Upward House Side	572	4.1%
Upward Total	1,013	7.3%
Total Flux	13,914	100.0%

ISOFOOT CANDLE PLOT



SRS2-72L-600-4K7-2

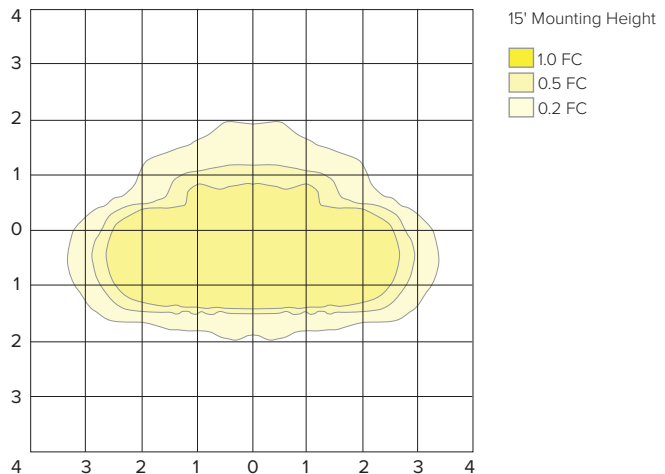
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	13422
Watts	135.6
Efficacy	99.0
IES Type	II
BUG Rating	B2-U3-G2
Mounting Height	15 ft
Grid Scale	15 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	10,073	75.0%
Downward House Side	2,693	20.1%
Downward Total	12,766	95.1%
Upward Street Side	284	2.1%
Upward House Side	372	2.8%
Upward Total	656	4.9%
Total Flux	13,422	100.0%

ISOFOOT CANDLE PLOT



SRS2-72L-600-4K7-3

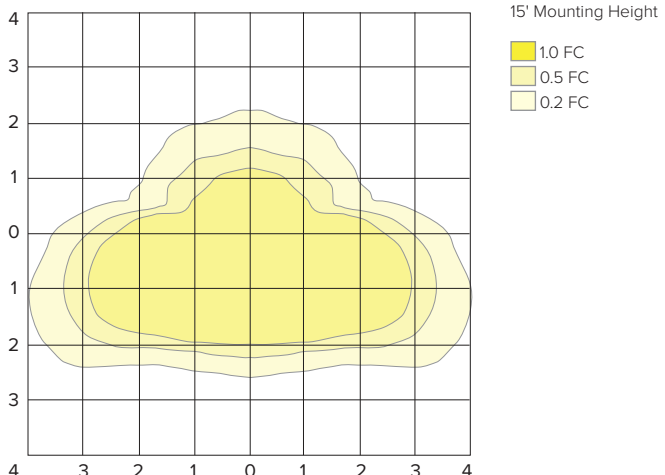
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	13681
Watts	135.23
Efficacy	101.2
IES Type	III
BUG Rating	B2-U3-G2
Mounting Height	15 ft
Grid Scale	15 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	10,431	76.2%
Downward House Side	2,621	19.2%
Downward Total	13,052	95.4%
Upward Street Side	282	2.1%
Upward House Side	347	2.5%
Upward Total	629	4.6%
Total Flux	13,681	100.0%

ISOFOOT CANDLE PLOT



SRSK2

LED UPGRADE KIT

PHOTOMETRY (CONTINUED)

SRS2-72L-600-4K7-4W

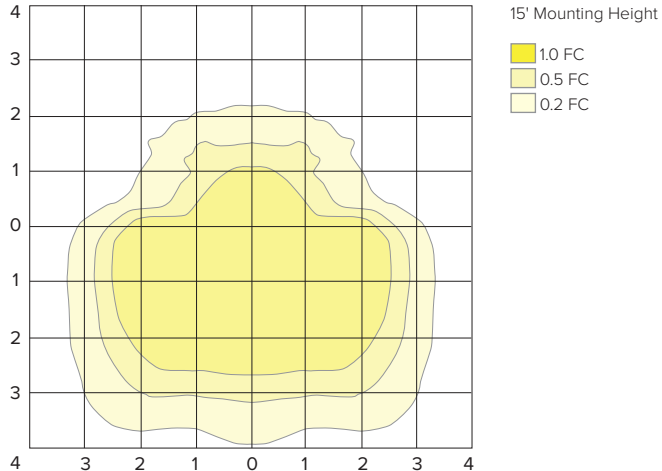
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	12810
Watts	135.6
Efficacy	94.5
IES Type	IV
BUG Rating	B2-U3-G3
Mounting Height	15 ft
Grid Scale	15 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	10,248	80.0%
Downward House Side	2,063	16.1%
Downward Total	12,311	96.1%
Upward Street Side	223	1.7%
Upward House Side	276	2.2%
Upward Total	499	3.9%
Total Flux	12,810	100.0%

ISOFOOT CANDLE PLOT



SRS2-72L-600-4K7-5Q

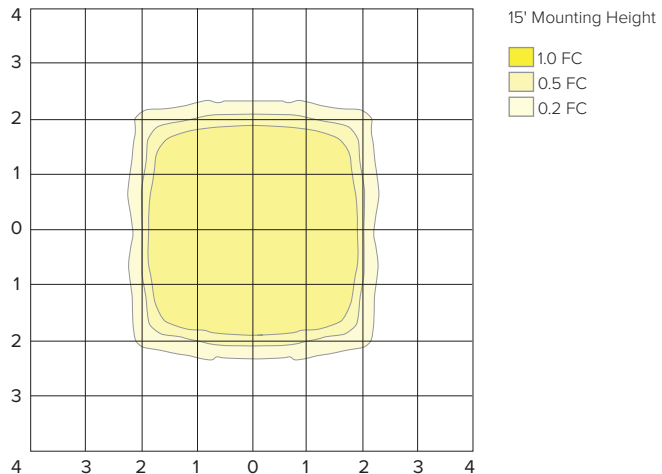
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	13554
Watts	135.6
Efficacy	100.0
IES Type	VQ
BUG Rating	B3-U3-G2
Mounting Height	15 ft
Grid Scale	15 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	6,506	48.0%
Downward House Side	6,506	48.0%
Downward Total	13,012	96.0%
Upward Street Side	271	2.0%
Upward House Side	271	2.0%
Upward Total	542	4.0%
Total Flux	13,554	100.0%

ISOFOOT CANDLE PLOT



SRS2-72L-600-4K7-5W

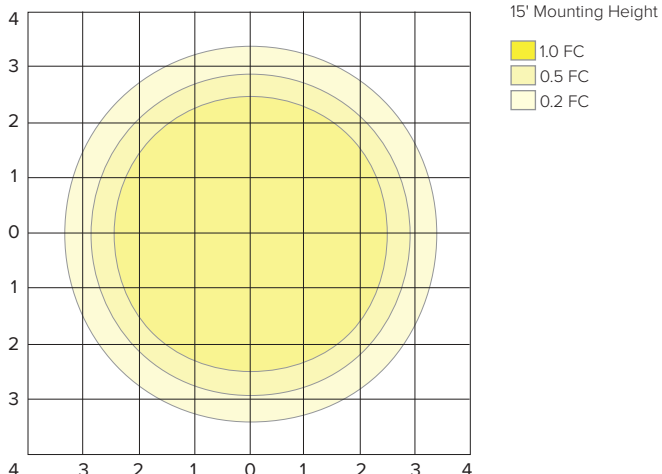
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	13931
Watts	135.6
Efficacy	102.7
IES Type	VW
BUG Rating	B4-U3-G2
Mounting Height	15 ft
Grid Scale	15 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	6,716	48.2%
Downward House Side	6,716	48.2%
Downward Total	13,432	96.4%
Upward Street Side	250	1.8%
Upward House Side	250	1.8%
Upward Total	499	3.6%
Total Flux	13,931	100.0%

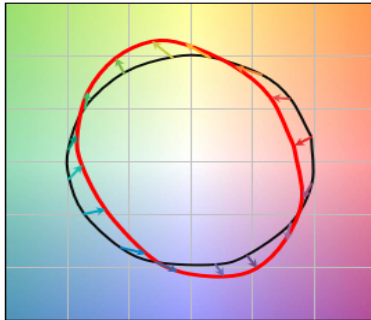
ISOFOOT CANDLE PLOT



SRSK2
LED UPGRADE KIT

TM-30 DATA

COLOR VECTOR GRAPHIC

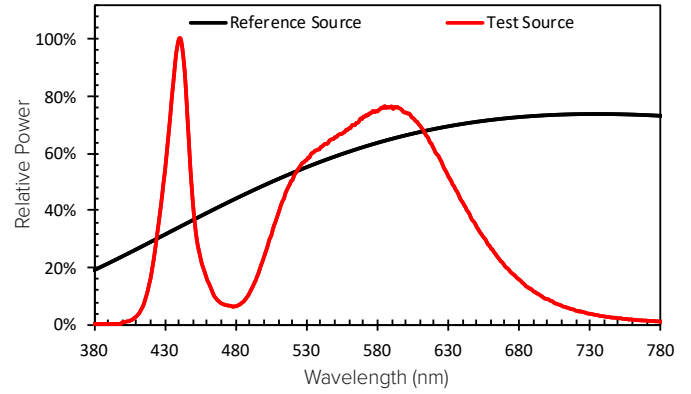


— Reference Illuminant — Test Source

TEST SOURCE

R _f	68
R _g	99
CCT(K)	3947
D _{uv}	0.0004
x	0.3831
y	0.3793
CIE R _a	72

SPECTRAL POWER DISTRIBUTION COMPARISON



ELECTRICAL DATA

LED #	System Watts	Current	Line Voltage		Amps AC						Min Power Factor	Max. THD (%)	Dimming				
			VAC	Hz	120	208	240	277	347	480			Dimming Range	Source Current Out		Absolute Voltage	
														Min	Max	Min	Max
72L	58.3	260 mA	120-480	50/60	0.49	0.28	0.24	0.21	0.17	0.12	>0.9	20	10% to 100%	0mA	1mA	0V	10V
	91.45	400 mA			0.76	0.44	0.38	0.33	0.26	0.19							
	135.6	600 mA			1.13	0.65	0.57	0.49	0.39	0.28							

TM-21 Lifetime Calculation - Projected Lumen Maintenance (25°C / 77°C)						
HOURS	0	25,000	36,000	50,000	100,000	Reported L70
Projected Lumen Maintenance	100%	92.5%	90.4%	87.7%	78.9%	>60000