

SRSK2
LED UPGRADE KIT

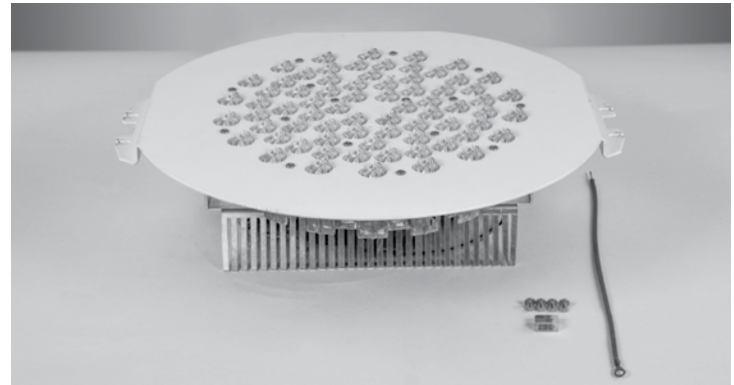
DATE: _____ LOCATION: _____
 TYPE: _____ PROJECT: _____
 CATALOG #: _____

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
- See [HLI Standard Warranty](#) for additional information

ORDERING GUIDE

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

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

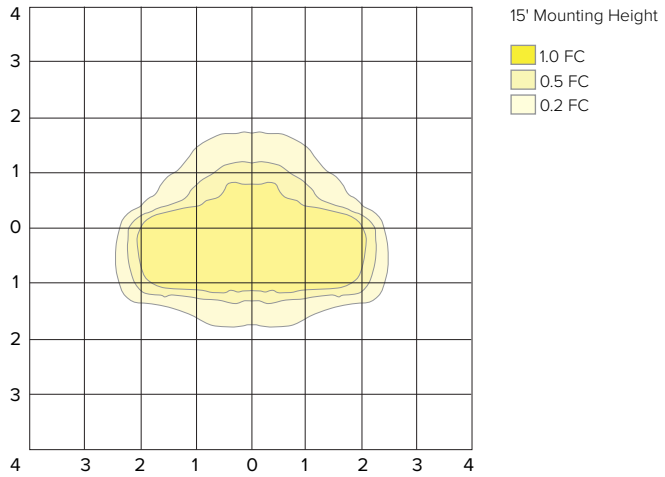
LUMINAIRE DATA

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

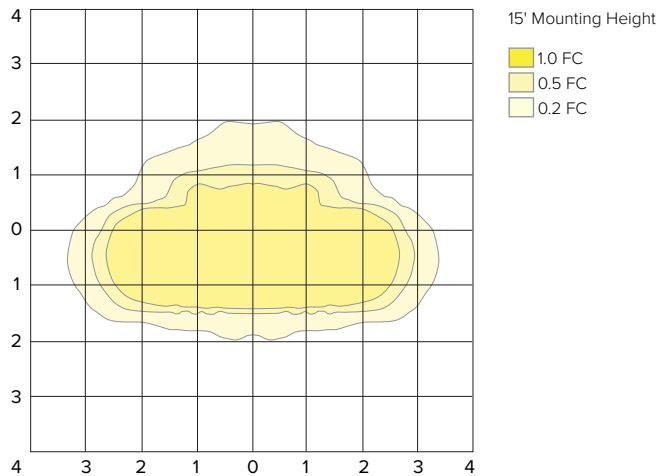
LUMINAIRE DATA

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

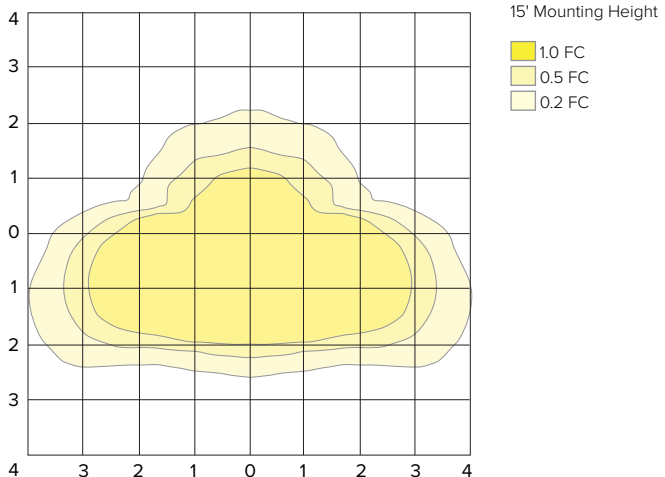
LUMINAIRE DATA

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

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PHOTOMETRY (CONTINUED)

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

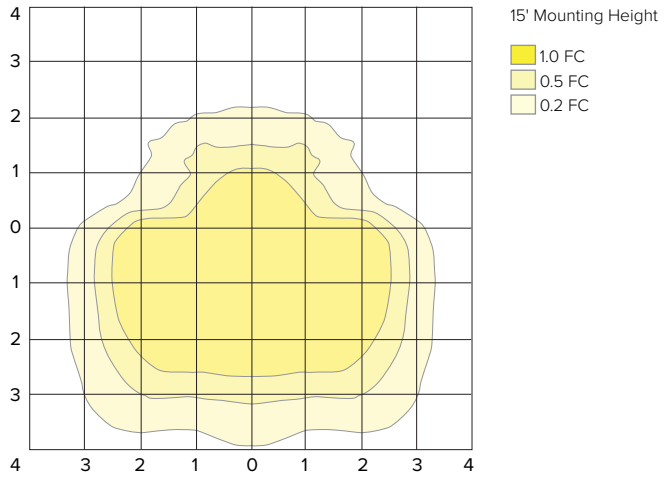
LUMINAIRE DATA

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

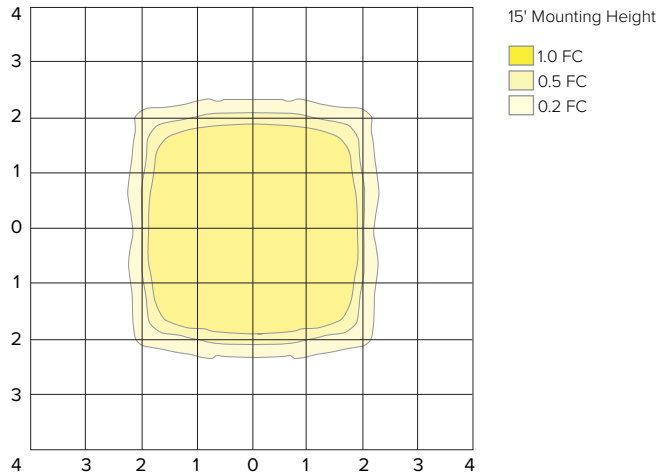
LUMINAIRE DATA

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

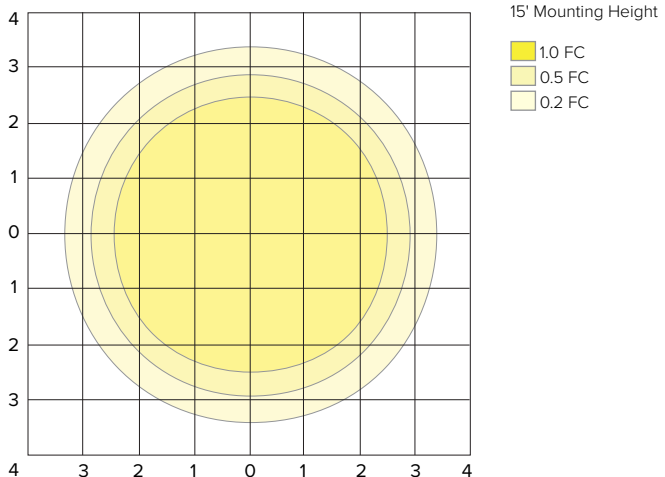
LUMINAIRE DATA

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%

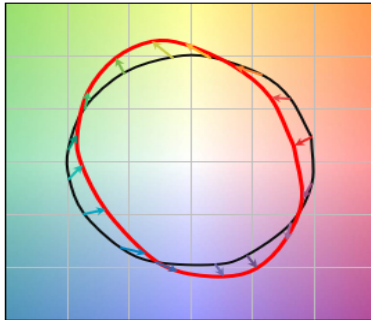
ISOFOOT CANDLE PLOT



SRSK2
LED UPGRADE KIT

TM-30 DATA

COLOR VECTOR GRAPHIC

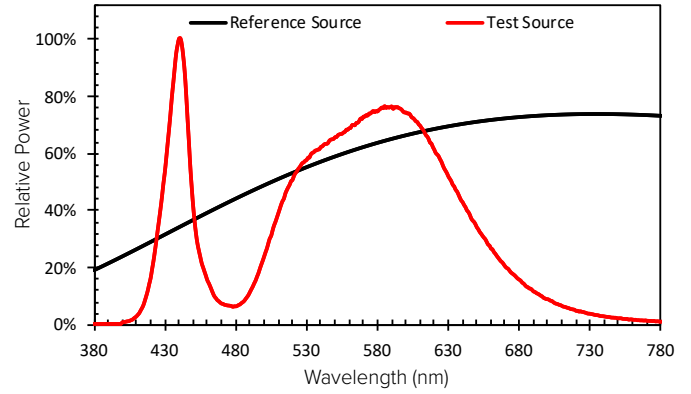


— Reference Illuminant — Test Source

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