

Project		Catalog #		Type	
Prepared by		Notes		Date	



McGraw-Edison

GALN Galleon II

Solar-Enabled Area / Site Luminaire

Product Features



Product Certifications



Interactive Menu

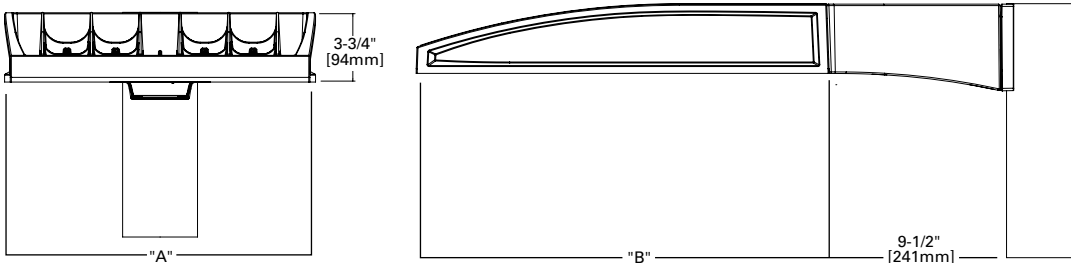
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Quick Facts

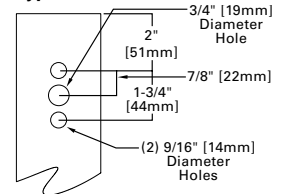
- Lumen packages range from 3,980 - 16,300
- 17 optical distributions
- Efficacy up to 158 lumens per watt

Dimensional Details

Standard Pole Mount Arm



Pole Drilling Pattern Type "N"



Number of Light Squares	Width "A"	Housing Length "B"	Weight with Standard or QM Arm	EPA with Standard or QM Arm
1-2	16"	22"	29 lb	0.95

NOTES:
For arm selection requirements and additional line art, see Mounting Details section.

NOTES:
1. IDA Certified (3000K CCT and warmer only, fixed mounting options)

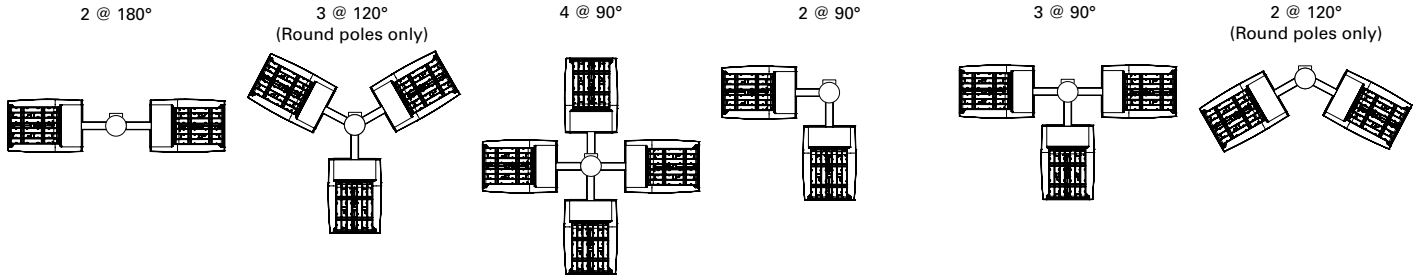
Ordering Information

SAMPLE NUMBER: GALN-SA2B-740-24VDC-T4FT-GM

Product Family ¹	Light Engine		Color Temperature	DC Solar Input Voltage	Distribution	Mounting	Finish
	Configuration	Drive Current					
GALN =Galleon II BAA-GALN =Galleon II Buy American Act Compliant ^{9,11} TAA-GALN =Galleon II Trade Agreements Act Compliant ^{9,11}	SA1 =1 Square SA2 =2 Squares	A =600mA B =800mA C =1000mA D =1200mA ³	722 =70CRI, 2200K 727 =70CRI, 2700K 730 =70CRI, 3000K 735 =70CRI, 3500K 740 =70CRI, 4000K 750 =70CRI, 5000K 760 =70CRI, 6000K 827 =80CRI, 2700K 830 =80CRI, 3000K 835 =80CRI, 3500K 840 =80CRI, 4000K 930 =90CRI, 3000K 935 =90CRI, 3500K 940 =90CRI, 4000K 950 =90CRI, 5000K	24VDC =24V DC	T1 =Type I T2 =Type II T2R =Type II Roadway T3 =Type III T3R =Type III Roadway T4FT =Type IV Forward Throw T4W =Type IV Wide 5NQ =Type V Narrow 5MQ =Type V Square Medium 5WQ =Type V Square Wide SL2 =Type II w/Spill Control SL3 =Type III w/Spill Control SL4 =Type IV w/Spill Control SLL =90° Spill Light Eliminator Left SLR =90° Spill Light Eliminator Right RW =Rectangular Wide Type I AFL =Automotive Frontline	[Blank] =Standard Pole Mount Arm QU =Quick Mount Universal Arm QM =Pole Mount Arm with Quick Mount Adaptor PA =Pole Mount, Adjustable SP3 =3" Slipfitter, Adjustable ⁵ SP2 =2-3/8" Slipfitter, Adjustable ⁵ QMA =Quick Mount Mast Arm, Fixed MA =Mast Arm, Fixed WM =Wall Mount, Fixed WA =Wall Mount, Adjustable UP =Upswept Arm	AP =Grey BZ =Bronze BK =Black DP =Dark Platinum GM =Graphite Metallic WH =White RALXX =Custom Color
Options (Add as Suffix)			Accessories (Order Separately) ¹⁰				
HSS =Installed House Side Shield ⁴ GRSBK =Glare Reducing Shield, Black GRSWH =Glare Reducing Shield, White LCF =Light Square Trim Painted to Match Housing TH =Tool-less Door Hardware ⁴ CC =Coastal Construction finish ² L90 =Optics Rotated 90° Left R90 =Optics Rotated 90° Right			MA1036-XX =Single Tenon Adapter for 2-3/8" O.D. Tenon MA1037-XX =2@180° Tenon Adapter for 2-3/8" O.D. Tenon MA1197-XX =3@120° Tenon Adapter for 2-3/8" O.D. Tenon MA1188-XX =4@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1189-XX =2@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1190-XX =3@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1191-XX =2@120° Tenon Adapter for 2-3/8" O.D. Tenon MA1038-XX =Single Tenon Adapter for 3-1/2" O.D. Tenon MA1039-XX =2@180° Tenon Adapter for 3-1/2" O.D. Tenon MA1192-XX =3@120° Tenon Adapter for 3-1/2" O.D. Tenon MA1193-XX =4@90° Tenon Adapter for 3-1/2" O.D. Tenon MA1194-XX =2@90° Tenon Adapter for 3-1/2" O.D. Tenon MA1195-XX =3@90° Tenon Adapter for 3-1/2" O.D. Tenon SRA238 =Adapter kit for mounting 3" SP arm to 2-3/8" O.D. vertical tenon LS/HSS =Field Installed House Side Shield ⁶ LS/GRSBK-2PK =Glare Reducing Shield, Black ⁶ LS/GRSWH-2PK =Glare Reducing Shield, White ⁶ LS/PFS =Perimeter Shield, Black ⁷				
<p>NOTES:</p> <ol style="list-style-type: none"> Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654. Not available with TH option. Drive current 1200mA not available with color temperatures 722, 727, 827, 830 or 930 when the HSS option is selected. TH option not 3G rated. Not available with Coastal Construction (CC) option. SP arm limited to 3" O.D. vertical tenon. SP2 limited to 2-3/8" O.D. vertical tenon. One required for each Light Square. Set of 4 pcs. One set required per Light Square. Not for use with T1, 5NQ, 5MQ, 5WQ or RW optics. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. For BAA or TAA requirements, Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. Extended lead times may apply. 							

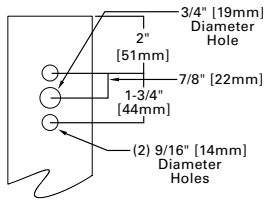
Mounting Details

Pole Configuration Options

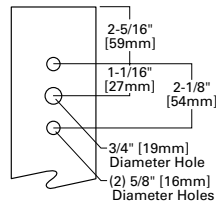


Pole Drilling Patterns

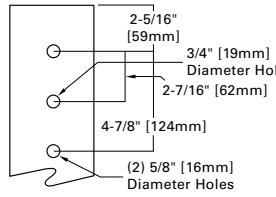
Type "N"



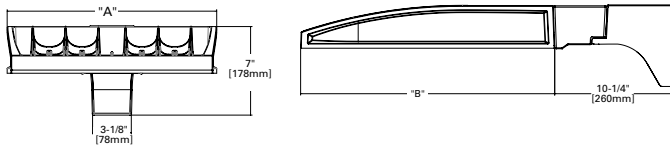
Type "R"



Type "M"

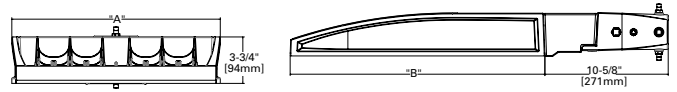


Quick Mount Universal Arm (QU)



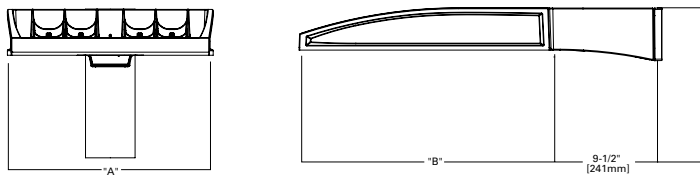
*NOTE: Universal bolt pattern compatible with Type N through Type M drilling patterns

Quick Mount Mast Arm (QMA)



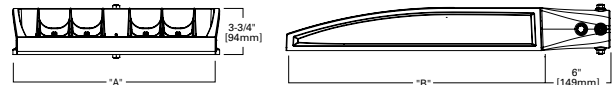
*NOTE: Fits 2-3/8" O.D. tenon

Pole Mount Arm with Quick Mount Adaptor (QM)



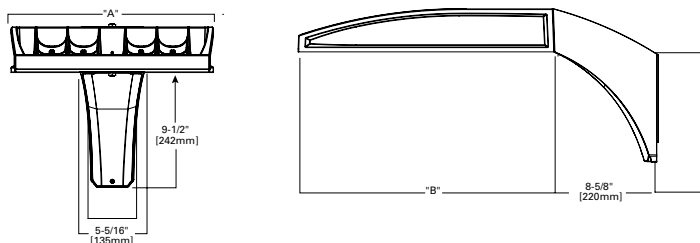
*NOTE: Use Type N drilling pattern

Mast Arm, Fixed (MA)



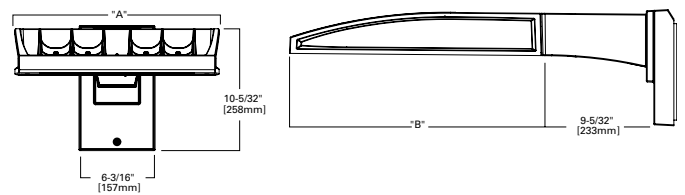
*NOTE: Fits 2-3/8" O.D. tenon

Upswept Arm (UP)



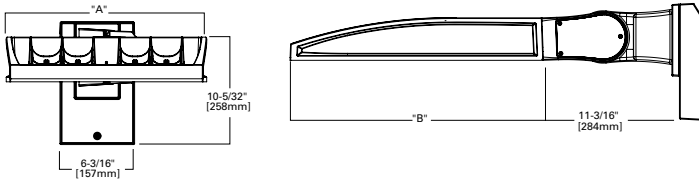
*NOTE: Universal bolt pattern compatible with Type N through Type M drilling patterns

Wall Mount, Fixed (WM)

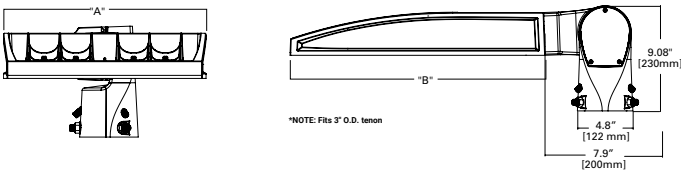


Mounting Details

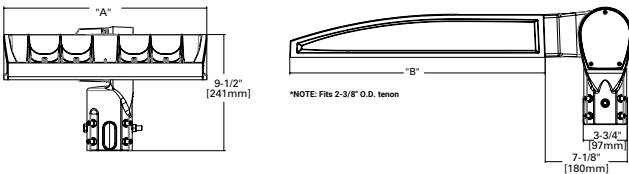
Wall Mount, Adjustable (WA)



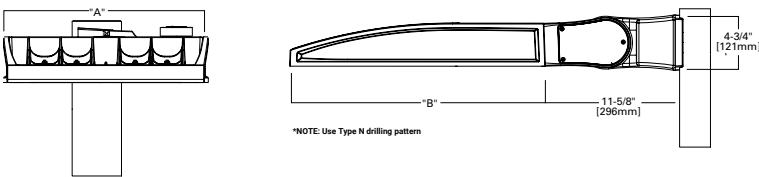
3" Slipfitter, Adjustable (SP)



2-3/8" Slipfitter, Adjustable (SP2)

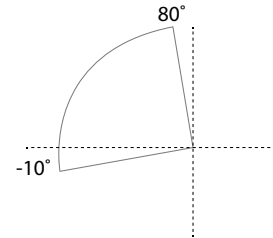


Pole Mount, Adjustable Arm (PA)



Adjustable Arm Range of Motion

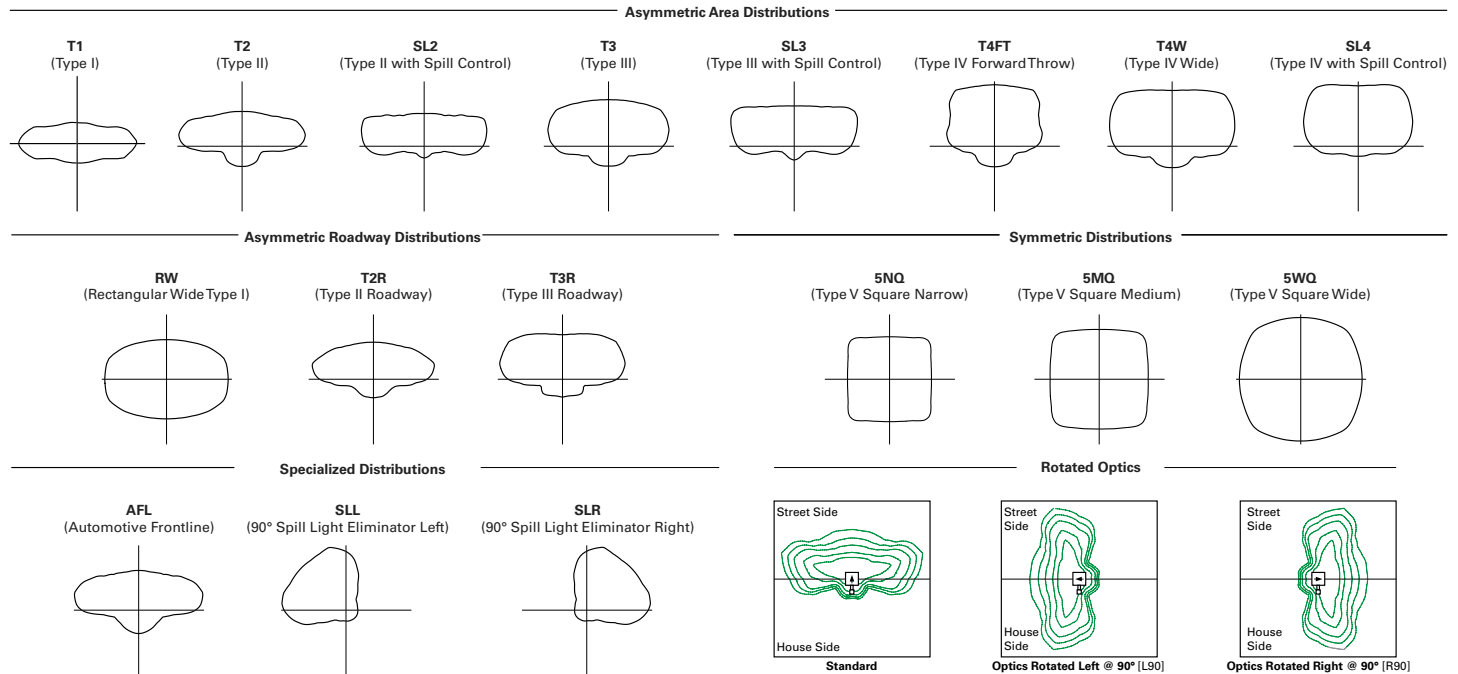
- Includes WA, SP, SP2 and PA mounting options
- Adjustable in increments of 5°
- Must maintain downward facing orientation



Fixture Weights and EPAs

Tilt Angle (Degrees)	Number of Light Squares	Weight	1 @ 90°	2 @ 180°	2 @ 90°	2 @ 120°	3 @ 90°	3 @ 120°	4 @ 90°
0°	1-2	33.5 lb (15.2 kg)	0.85	1.70	1.46	1.66	2.31	2.25	2.35
15°	1-2	33.5 lb (15.2 kg)	1.10	1.71	1.95	2.26	2.81	3.30	2.87
30°	1-2	33.5 lb (15.2 kg)	1.72	1.81	2.58	3.21	3.44	4.59	3.53
45°	1-2	33.5 lb (15.2 kg)	2.25	2.36	3.10	4.00	3.96	5.63	4.08
60°	1-2	33.5 lb (15.2 kg)	2.63	2.77	3.49	4.58	4.34	6.21	4.48

Optical Distributions



Product Specifications

Construction

- Die-cast aluminum housing and heat sink

Optics

- High-efficiency injection-molded AccuLED Optics technology
- 17 optical distributions for area site and roadway applications
- 3 shielding options include HSS, GRS and PFS
- IDA Certified (3000K CCT and warmer only, fixed mounting options)

Electrical

- Removable power tray assembly for ease of maintenance and serviceability
- Standard 1-10V dc dimming control and Dim-to-Off at 0Vdc
- Suitable for operation in -30°C to 40°C ambient environments.
- DC drivers feature electronic direct current greater than 0.9 power factor and less than 20% total harmonic distortion.

Mounting

- Arms are factory installed, enabling closed-housing installation
- All arms suitable for round or square pole installation
- All arms provide clearance for multiple fixture installations at 90°

Finish

- 6 standard finishes use super durable TGIC polyester powder coat paint, providing 2.5 mil nominal thickness and salt-spray tested to 3,000 hours per ASTM B117
- RAL and custom color matches available
- Coastal Construction (CC) option salt-spray tested to 5,000 hours per ASTM B117, achieving a scribe rating of 9 per ASTM D1654

Typical Applications

- Outdoor, Parking Lots, Walkways, Roadways, Building Areas

Warranty

- Five year limited warranty, consult website for details. www.cooperlighting.com/legal

Energy and Performance Data

Lumen Maintenance (TM-21)

Drive Current	Ambient Temperature	25,000 hours	50,000 hours	60,000 hours	100,000 hours	L70 (25,000)
Up to 1.05A	25C	100%	95%	93%	86%	>150,000 hrs
	40C	99%	94%	92%	85%	>150,000 hrs

ANSI/IES TM-21-21

Drive Current	Ambient Temperature	25,000 hours	50,000 hours	60,000 hours	100,000 hours	L70 (20,000)
1.2A	25C	99%	94%	92%	85%	>120,000 hrs
	40C	98%	93%	91%	84%	>120,000 hrs

ANSI/IES TM-21-21

Lumen Multiplier

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99

LED Color Multipliers

	CCT					
	2200	2700	3000	3500	4000	5000
CRI	Lumen Multiplier*					
70	0.74	0.84	0.91	0.93	1.00	1.00
80	--	0.75	--	--	--	--

Note: * Estimates, refer to IES files for accuracy.

[View GALN Galleon II IES files](#)

Performance Table, Drive Current "A" (615mA)

Number of Light Squares		1	2
Nominal Power (Watts)		31	61
Input Current @24Vdc (A)		1.28	2.56
Optics			
T1	4000K Lumens	4,619	9,180
	BUG Rating	B2-U0-G1	B3-U0-G1
	Lumens per Watt	151	150
T2	4000K Lumens	4,654	9,249
	BUG Rating	B1-U0-G1	B1-U0-G2
	Lumens per Watt	152	151
T2R	4000K Lumens	4,716	9,372
	BUG Rating	B1-U0-G1	B1-U0-G2
	Lumens per Watt	154	153
T3	4000K Lumens	4,589	9,120
	BUG Rating	B1-U0-G1	B2-U0-G2
	Lumens per Watt	150	149
T3R	4000K Lumens	4,735	9,411
	BUG Rating	B1-U0-G1	B1-U0-G2
	Lumens per Watt	154	153
T4FT	4000K Lumens	4,617	9,176
	BUG Rating	B1-U0-G2	B2-U0-G2
	Lumens per Watt	151	150
T4W	4000K Lumens	4,631	9,203
	BUG Rating	B1-U0-G2	B2-U0-G2
	Lumens per Watt	151	150
SL2	4000K Lumens	4,619	9,180
	BUG Rating	B1-U0-G2	B2-U0-G2
	Lumens per Watt	151	150
SL3	4000K Lumens	4,586	9,115
	BUG Rating	B1-U0-G1	B1-U0-G2
	Lumens per Watt	150	149
SL4	4000K Lumens	4,529	9,002
	BUG Rating	B1-U0-G2	B1-U0-G3
	Lumens per Watt	148	147
5NQ	4000K Lumens	4,829	9,598
	BUG Rating	B2-U0-G1	B3-U0-G1
	Lumens per Watt	157	156
5MQ	4000K Lumens	4,853	9,645
	BUG Rating	B3-U0-G1	B3-U0-G2
	Lumens per Watt	158	157
5WQ	4000K Lumens	4,843	9,625
	BUG Rating	B3-U0-G1	B4-U0-G2
	Lumens per Watt	158	157
SLL/ SLR	4000K Lumens	3,989	7,927
	BUG Rating	B1-U0-G2	B1-U0-G2
	Lumens per Watt	130	129
RW	4000K Lumens	4,774	9,488
	BUG Rating	B2-U0-G1	B3-U0-G1
	Lumens per Watt	156	155
AFL	4000K Lumens	4,673	9,286
	BUG Rating	B1-U0-G1	B1-U0-G1
	Lumens per Watt	152	151

* Nominal data for 70 CRI. ** For additional performance data, please reference the Galleon Supplemental Performance Guide.

Performance Table, Drive Current "B" (800mA)

Number of Light Squares		1	2
Nominal Power (Watts)		41	82
Input Current @24Vdc (A)		1.7	3.41
Optics			
T1	4000K Lumens	5,748	11,423
	BUG Rating	B2-U0-G1	B3-U0-G2
	Lumens per Watt	141	140
T2	4000K Lumens	5,790	11,508
	BUG Rating	B1-U0-G2	B2-U0-G2
	Lumens per Watt	142	141
T2R	4000K Lumens	5,868	11,662
	BUG Rating	B1-U0-G1	B2-U0-G2
	Lumens per Watt	144	143
T3	4000K Lumens	5,710	11,347
	BUG Rating	B1-U0-G1	B2-U0-G2
	Lumens per Watt	140	139
T3R	4000K Lumens	5,892	11,710
	BUG Rating	B1-U0-G2	B2-U0-G2
	Lumens per Watt	144	143
T4FT	4000K Lumens	5,745	11,418
	BUG Rating	B1-U0-G2	B2-U0-G3
	Lumens per Watt	140	140
T4W	4000K Lumens	5,762	11,451
	BUG Rating	B1-U0-G2	B2-U0-G2
	Lumens per Watt	141	140
SL2	4000K Lumens	5,747	11,422
	BUG Rating	B1-U0-G2	B2-U0-G3
	Lumens per Watt	141	140
SL3	4000K Lumens	5,707	11,342
	BUG Rating	B1-U0-G2	B2-U0-G3
	Lumens per Watt	140	139
SL4	4000K Lumens	5,636	11,201
	BUG Rating	B1-U0-G2	B1-U0-G3
	Lumens per Watt	138	137
5NQ	4000K Lumens	6,009	11,942
	BUG Rating	B2-U0-G1	B3-U0-G1
	Lumens per Watt	147	146
5MQ	4000K Lumens	6,039	12,001
	BUG Rating	B3-U0-G1	B4-U0-G2
	Lumens per Watt	148	147
5WQ	4000K Lumens	6,026	11,976
	BUG Rating	B3-U0-G1	B4-U0-G2
	Lumens per Watt	147	146
SLL/ SLR	4000K Lumens	4,963	9,863
	BUG Rating	B1-U0-G2	B1-U0-G3
	Lumens per Watt	121	121
RW	4000K Lumens	5,940	11,806
	BUG Rating	B3-U0-G1	B3-U0-G2
	Lumens per Watt	145	144
AFL	4000K Lumens	5,814	11,555
	BUG Rating	B1-U0-G1	B2-U0-G1
	Lumens per Watt	142	141

* Nominal data for 70 CRI. ** For additional performance data, please reference the Galleon Supplemental Performance Guide.

Performance Table, Drive Current "C" (1050mA)

Number of Light Squares		1	2
Nominal Power (Watts)		54	107
Input Current @24Vdc (A)		2.24	4.47
Optics			
T1	4000K Lumens	7,101	14,113
	BUG Rating	B3-U0-G1	B3-U0-G2
	Lumens per Watt	132	131
T2	4000K Lumens	7,154	14,219
	BUG Rating	B1-U0-G2	B2-U0-G2
	Lumens per Watt	133	132
T2R	4000K Lumens	7,250	14,408
	BUG Rating	B1-U0-G1	B2-U0-G2
	Lumens per Watt	135	134
T3	4000K Lumens	7,054	14,020
	BUG Rating	B1-U0-G2	B2-U0-G2
	Lumens per Watt	131	131
T3R	4000K Lumens	7,280	14,468
	BUG Rating	B1-U0-G2	B2-U0-G3
	Lumens per Watt	136	135
T4FT	4000K Lumens	7,098	14,107
	BUG Rating	B1-U0-G2	B2-U0-G3
	Lumens per Watt	132	131
T4W	4000K Lumens	7,119	14,148
	BUG Rating	B1-U0-G2	B2-U0-G3
	Lumens per Watt	133	132
SL2	4000K Lumens	7,101	14,112
	BUG Rating	B1-U0-G2	B2-U0-G3
	Lumens per Watt	132	131
SL3	4000K Lumens	7,051	14,013
	BUG Rating	B1-U0-G2	B2-U0-G3
	Lumens per Watt	131	131
SL4	4000K Lumens	6,963	13,839
	BUG Rating	B1-U0-G2	B2-U0-G3
	Lumens per Watt	130	129
5NQ	4000K Lumens	7,424	14,755
	BUG Rating	B3-U0-G1	B3-U0-G2
	Lumens per Watt	138	137
5MQ	4000K Lumens	7,461	14,828
	BUG Rating	B3-U0-G1	B4-U0-G2
	Lumens per Watt	139	138
5WQ	4000K Lumens	7,445	14,797
	BUG Rating	B3-U0-G2	B4-U0-G2
	Lumens per Watt	139	138
SLL/ SLR	4000K Lumens	6,132	12,187
	BUG Rating	B1-U0-G2	B2-U0-G3
	Lumens per Watt	114	114
RW	4000K Lumens	7,340	14,587
	BUG Rating	B3-U0-G1	B3-U0-G2
	Lumens per Watt	137	136
AFL	4000K Lumens	7,183	14,276
	BUG Rating	B1-U0-G1	B2-U0-G2
	Lumens per Watt	134	133

* Nominal data for 70 CRI. ** For additional performance data, please reference the Galleon Supplemental Performance Guide.

Performance Table, Drive Current "D" (1200mA)

Number of Light Squares		1	2
Nominal Power (Watts)		61	123
Input Current @24Vdc (A)		2.56	5.11
Optics			
T1	4000K Lumens	7,814	15,529
	BUG Rating	B3-U0-G1	B4-U0-G2
	Lumens per Watt	127	127
T2	4000K Lumens	7,872	15,645
	BUG Rating	B1-U0-G2	B2-U0-G3
	Lumens per Watt	128	128
T2R	4000K Lumens	7,977	15,854
	BUG Rating	B1-U0-G2	B2-U0-G2
	Lumens per Watt	130	129
T3	4000K Lumens	7,762	15,427
	BUG Rating	B2-U0-G2	B3-U0-G3
	Lumens per Watt	127	126
T3R	4000K Lumens	8,010	15,920
	BUG Rating	B1-U0-G2	B2-U0-G3
	Lumens per Watt	131	130
T4FT	4000K Lumens	7,810	15,522
	BUG Rating	B1-U0-G2	B2-U0-G3
	Lumens per Watt	127	127
T4W	4000K Lumens	7,833	15,568
	BUG Rating	B2-U0-G2	B3-U0-G3
	Lumens per Watt	128	127
SL2	4000K Lumens	7,813	15,528
	BUG Rating	B2-U0-G2	B3-U0-G3
	Lumens per Watt	127	127
SL3	4000K Lumens	7,758	15,419
	BUG Rating	B1-U0-G2	B2-U0-G3
	Lumens per Watt	126	126
SL4	4000K Lumens	7,662	15,228
	BUG Rating	B1-U0-G3	B2-U0-G3
	Lumens per Watt	125	124
5NQ	4000K Lumens	8,169	16,235
	BUG Rating	B3-U0-G1	B3-U0-G2
	Lumens per Watt	133	132
5MQ	4000K Lumens	8,210	16,316
	BUG Rating	B3-U0-G2	B4-U0-G2
	Lumens per Watt	134	133
5WQ	4000K Lumens	8,192	16,282
	BUG Rating	B3-U0-G2	B4-U0-G2
	Lumens per Watt	134	133
SLL/ SLR	4000K Lumens	6,747	13,410
	BUG Rating	B1-U0-G2	B2-U0-G3
	Lumens per Watt	110	109
RW	4000K Lumens	8,076	16,050
	BUG Rating	B3-U0-G1	B4-U0-G2
	Lumens per Watt	132	131
AFL	4000K Lumens	7,904	15,709
	BUG Rating	B1-U0-G1	B2-U0-G2
	Lumens per Watt	129	128

* Nominal data for 70 CRI. ** For additional performance data, please reference the Galleon Supplemental Performance Guide.