

ROADMAX® RX3

Evluma's Next Generation Roadway Luminaire
LED ROADWAY LIGHTING

Applications:

roadways
major & collector streets
parking lots, campuses, industrial parks.

RX3 Wattage Range: 120-300W
RX3 Lumen Range: 13,860 - 42,340 lumens



RoadMax RX3 delivers high-performance roadway distributions coupled with exceptional glare control. This graceful, utility-grade luminaire is easily configurable to meet a multitude of application requirements. RX3 is one model in a series. See also, RX1 & RX2.

Replaces 150W-400W HID

The RoadMax RX3 is a triple light engine luminaire with a lumen output ranging from 13,860 - 42,340 lumens and wattages ranging from 120-300 watts. Lumen output and wattage can be changed in the field through your choice of manual or wireless controls.

Construction & Finish

Cast aluminum housing with TGIC-free, polyester powder-coat in a variety of colors. Hinged tool-less access panel for wiring access. The 4-bolt tenon clamp accepts a 2" or 1-1/4" diameter arm. Step adjustment of +/- 5° tilt plus integral bubble level for luminaire leveling. Removable wildlife guard. Coastal version with enhanced hardware available meeting 3000-hour salt spray.

Thermal Protection

Solid aluminum housing provides excellent passive cooling for all electronics. LED & driver life is ensured by thermal management protection that limits current levels to the LEDs based on temperature. Luminaire is rated for full performance at -40°C min – 50°C max ambient temperature.

Lumen Maintenance

Projected per IES TM-21-21 at 25°C and based on LM80 (10,000 hr testing)
at 25,000 hours L95
at 50,000 hours L91
at 60,000 hours L89

LED & Optical

High-efficacy LEDs with color temperature options of 2700 – 5000 Kelvin and CRI > 70. High-performance Type II, Type III, Type IV and Type V primary borosilicate optics rated at IP66. Factory or field-installable secondary lens available on all optics for managing glare while achieving superior pole spacing. All configurations are Zero Uplight (U0 BUG). Field-installable light trespass shields are available.

Electrical

Driver options: 120-277 VAC 60 Hz or 277-480 VAC 60 Hz. 0-10V ANSI C137.1-2019 (9-Volt).

20kV/10kA surge protection per ANSI C136.2 – 2018 Extreme rating.

Three-position terminal block with optional pigtails. The separate, enclosed driver compartment is rated IP66.

Controls

Dimmable driver. 0-10V interface standard with 7-pin NEMA socket option. Manual wattage control (FAO) optional. Dimming minimum to 10% of nominal wattage. Manual wattage control (FAO) with stepped dimming optional.

Optional packages includes Photocontrol FailSafe™ and compatibility with the Bluetooth BLE ConnectLED™ mobile app. Can be combined with Evluma's integrated photocell, 3-pin, or 7-pin receptacles.

Warranty

Ten-year warranty.



ROADMAX RX3

PRODUCT CONFIGURATIONS

SAMPLE NUMBER: RX3-220E3T4G0-S7HGL0-AFBN-PC1

FAMILY ID	WATTS	OUTPUT	CCT (K)	DISTRIBUTION ¹	LENS	PCR / RECEPTACLE / FAILSAFE
RX3 = RoadMax large	120 = 120 140 = 140 160 = 160 180 = 180 200 = 200 220 = 220 240 = 240 260 = 260 280 = 280 300 = 300	E = high output	7 = 2700 3 = 3000 4 = 4000 5 = 5000	T2 = type II T3 = type III T4 = type IV T5 = type V	G0= none G1= diffused glare control	S3= 3 pin receptacle only S7= 7 pin receptacle only (0-10V) SP= Integrated Photocell F3= S3 pin + Failsafe/CLED F7= S7 pin + Failsafe/CLED FP= Integrated PC + Failsafe/CLED

HOUSING	LEADS	SURGE PROTECTION	Features 1	AC INPUT RANGE (VAC)	Features 2
HG = standard gray HB = standard black HZ = standard bronze ZG = coastal gray ZB = coastal black ZZ = coastal bronze	L0 = none L6 = 6' L1 = 10' L2 = 20'	A = Surge 20kV/10kA SPD	0 = none F = FAO	B = 120-277VAC D = 277-480VAC ²	0 = none N = NEMA wattage label

¹ Nominal IES Type subject to typical variation. Please review individual IES files.
² Option D 277-480VAC is not available with SP, F3, F7, or FP.

LENS

The primary glass RX3 optics are designed to deliver precise, evenly-distributed light for Type II, Type III, Type IV and Type V distributions.

Choose G1 to add a secondary lens made from a specially formulated LED acrylic for exceptional glare control.

PCR/RECEPTACLE/FAILSAFE

All photocell receptacles are rotatable. Wireless photocell not provided.

Integrated Photocell (P)

Evluma's integrated photocell shortens installation time. This UV-resistant, polycarbonate photocell meets FM 4473 impact resistance. Rotatable 360°.

ConnectLED™ (CLED)

Order the RX3 configured for compatibility with Evluma's ConnectLED app.

ConnectLED uses Bluetooth BLE technology to securely control individual luminaires. ConnectLED is available as an Apple or Android app.

Photocontrol

Failsafe™ (Failsafe)

Photocontrol Failsafe eliminates the need to replace failed photocells, saving truck-rolls. Combine this patented technology with S3, S7 receptacles or the P option. Packaged with ConnectLED.

HOUSING

Standard housings are tested to 1000hrs salt/fog. Coastal housings are tested to 3000hrs and include non-corrosive hardware. Recommended for installation within 2000 ft from saltwater. Custom colors available.

Features 1: FAO

Field Adjustable Wattage Selector (FAO) Manually adjust luminaire wattage and lumen output in the field using the FAO. Allows a single SKU to be adapted to multiple applications or site specific requirements. Seven output levels.

SWITCH POSITION	INPUT WATTS MULTIPLIER	DELIVERED LUMENS MULTIPLIER
A	100%	100%
B	89%	91%
C	77%	84%
D	65%	72%
E	54%	61%
F	43%	50%
G	33%	39%
H	23%	28%

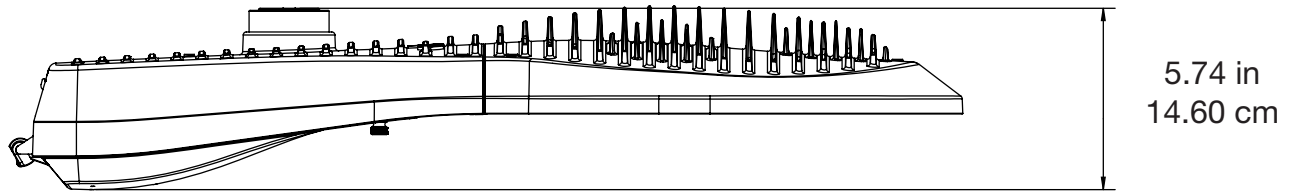
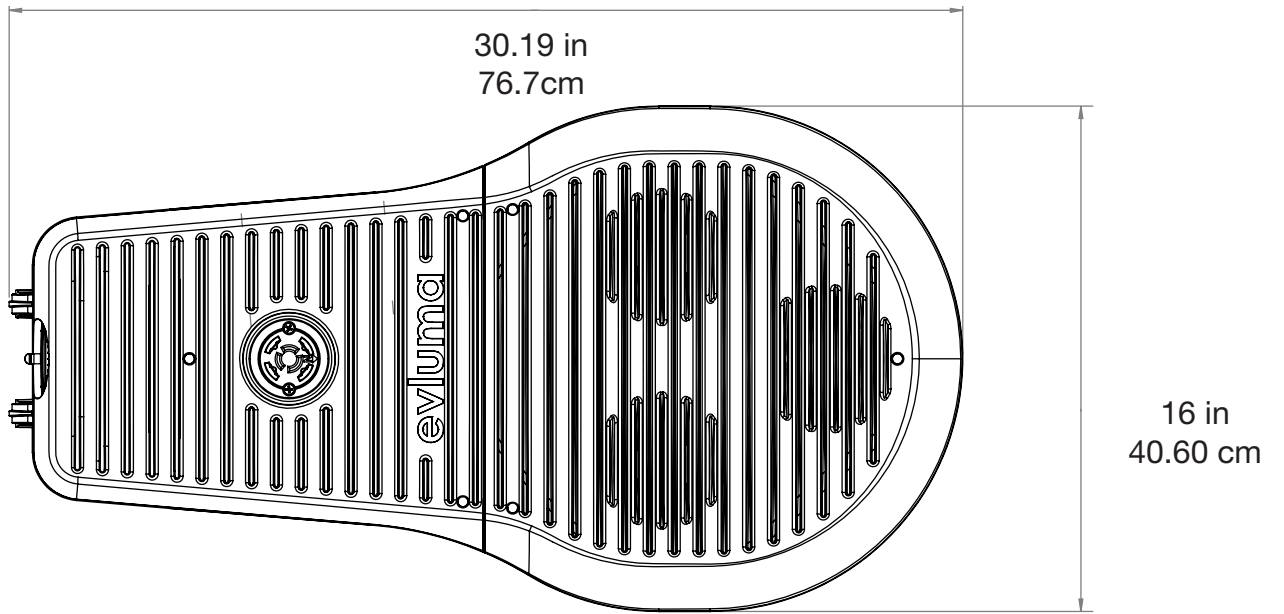
SPECIAL OPTIONS

- CAP = shorting cap
- PC1 = long life NEMA photocell 120-277VAC
- PC2 = long life NEMA photocell 480VAC

Multiply the nominal wattage and/or lumens to arrive at reduced values. Typical accuracy is +/- 10%. Select the A position if using with an S7 socket and wireless node.



RX3 DIMENSIONS



Certifications

UL 1598. MET Labs
IEC 60598-1
IP66 Lens
IP54 Enclosure

ANSI C136.31-2018
Level2/3G Vibration

ANSI C136.2-2023
20kV/10kA Extreme

ANSI C78.377-2011

Ratings

Rated electrical life =
100,000 hours

-40°C Min / 50°C Max Temp

THD <20% 120-277 VAC
PF >90% 120-277 VAC
THD <20% 277-480 VAC
PF >90% 277-480 VAC

Effective Projected Area
(EPA) <0.6 sq ft

Dark Sky Approved

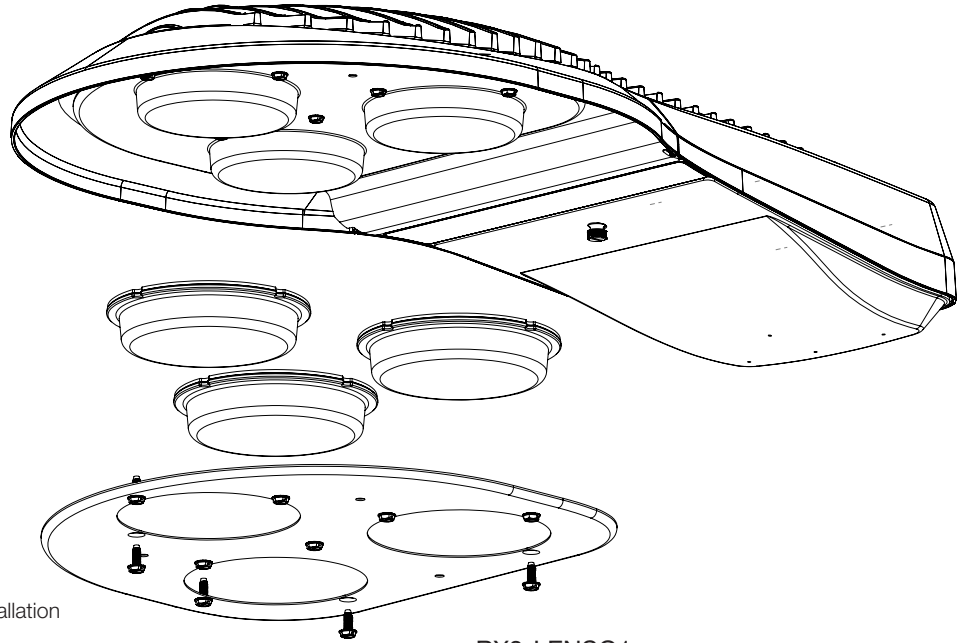
Multiple RX3 models have received the IDA Dark Sky Seal of Approval. darksky.org.

Models offered in 3000K (3) or 2700K (7) are IDA approved. All RX2 are U0.

Shipping

Single unit Weight = 35 lbs
LTL pallet qty 18

LENS ACCESSORIES



SECONDARY LENS FOR GLARE CONTROL

Push Veiling Luminance even lower while maintaining competitive pole spacing within RP-8 recommendations.

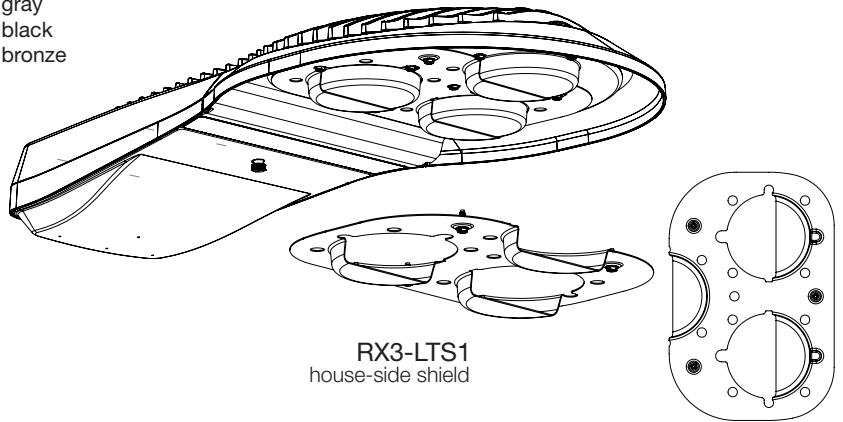
RX3 can be ordered from the factory with a set of secondary lenses installed for additional glare control, or order the set separately for installation in the field at a later date.

Prioritize glare reduction while maintaining high roadway performance.

The glare control lens is made from a specially formulated optical acrylic for use with LEDs. Coastal version available. To order separately see the catalog number below.

RX3-LENSG1

FAMILY ID	STYLE	COLOR
RX3	LENSG1 = secondary lens for glare control	HG = standard gray HB = standard black HZ = standard bronze ZG = coastal gray ZB = coastal black ZZ = coastal bronze

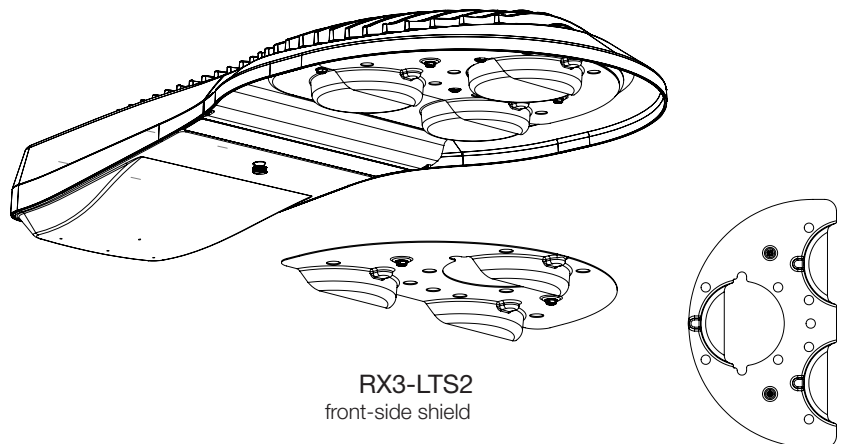


RX3-LTS1
house-side shield

LIGHT TRESPASS SHIELDS

Reduce light trespass and discomfort glare. Field installable shields can be mounted over primary optics or secondary lenses front or back. Shields maintain No Uplight (U0) rating and add no additional EPS. Coastal version available. Order separately.

FAMILY ID	STYLE	COLOR
RX3	LTS1 = house-side shield (large) LTS2 = front-side shield (small)	HG = standard gray HB = standard black HZ = standard bronze ZG = coastal gray ZB = coastal black ZZ = coastal bronze



RX3-LTS2
front-side shield

RX3 PERFORMANCE

Nominal lumen values reported. Individual fixtures may vary +- 10%.

WATTAGE	DISTRIBUTION Type, Lm/W & BUG	LUMENS (all CCT = >70 CRI)							
		G0 option - primary lens				G1 option - glare control			
		2700K	3000K	4000K	5000K	2700K	3000K	4000K	5000K
120 E Output	II	15160	16930	17370	17460	13880	14870	15260	15340
	Lm/W	126	141	145	146	116	124	127	128
	BUG	B2 U0 G2	B3 U0 G2	B3 U0 G2	B3 U0 G2	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3
	III	15200	16970	17410	17500	13860	14850	15230	15310
	Lm/W	127	141	145	146	116	124	127	128
	BUG	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3
	IV	15180	16950	17400	17490	13900	14800	15180	15260
	Lm/W	127	141	145	146	116	123	127	127
	BUG	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3
V	16860	19050	19540	19650	14940	16690	17120	17210	
Lm/W	141	159	163	164	125	139	143	143	
BUG	B4 U0 G2	B4 U0 G2	B4 U0 G2	B4 U0 G2	B3 U0 G2	B4 U0 G3	B4 U0 G3	B4 U0 G3	
140 E Output	II	17040	19030	19530	19630	15020	16780	17220	17310
	Lm/W	122	136	140	140	107	120	123	124
	BUG	B3 U0 G2	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3
	III	17080	19080	19580	19680	15000	16750	17190	17280
	Lm/W	122	136	140	141	107	120	123	123
	BUG	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3
	IV	17060	19060	19560	19660	14950	16700	17140	17220
	Lm/W	122	136	140	140	107	119	122	123
	BUG	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3
V	19170	21410	21970	22090	16860	18830	19320	19420	
Lm/W	137	153	157	158	120	135	138	139	
BUG	B4 U0 G2	B4 U0 G2	B4 U0 G2	B4 U0 G2	B4 U0 G3	B4 U0 G3	B4 U0 G3	B4 U0 G3	
160 E Output	II	18980	21200	21750	21870	16720	18670	19160	19260
	Lm/W	119	133	136	137	105	117	120	120
	BUG	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3
	III	19030	21250	21810	21930	16690	18640	19130	19230
	Lm/W	119	133	136	137	104	117	120	120
	BUG	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3
	IV	19010	21230	21780	21900	16640	18580	19070	19170
	Lm/W	119	133	136	137	104	116	119	120
	BUG	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3
V	21360	23850	24470	24610	18760	20950	21500	21610	
Lm/W	134	149	153	154	117	131	134	135	
BUG	B4 U0 G2	B4 U0 G2	B4 U0 G2	B4 U0 G2	B4 U0 G3	B4 U0 G3	B4 U0 G3	B4 U0 G3	
180 E Output	II	20920	23370	23980	24100	18420	20570	21110	21220
	Lm/W	116	130	133	134	102	114	117	118
	BUG	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3
	III	20970	23430	24040	24160	18390	20540	21080	21190
	Lm/W	117	130	134	134	102	114	117	118
	BUG	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3
	IV	20950	23400	24010	24130	18330	20470	21010	21120
	Lm/W	116	130	133	134	102	114	117	117
	BUG	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G4	B3 U0 G4	B3 U0 G4
V	23540	26300	26980	27120	20670	23080	23690	23810	
Lm/W	131	146	150	151	115	128	132	132	
BUG	B4 U0 G2	B4 U0 G2	B4 U0 G2	B4 U0 G2	B4 U0 G3	B4 U0 G3	B4 U0 G3	B4 U0 G3	
200 E Output	II	22870	25550	26220	26350	20120	22470	23060	23180
	Lm/W	114	128	131	132	101	112	115	116
	BUG	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3
	III	22930	25610	26290	26420	20090	22430	23020	23140
	Lm/W	115	128	131	132	100	112	115	116
	BUG	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G4	B3 U0 G4	B3 U0 G4
	IV	22900	25590	26260	26390	20020	22360	22950	23070
	Lm/W	115	128	131	132	100	112	115	115
	BUG	B3 U0 G3	B3 U0 G3	B3 U0 G4	B3 U0 G4	B3 U0 G4	B3 U0 G4	B3 U0 G4	B3 U0 G4
V	25730	28750	29500	29650	22580	25220	25880	26010	
Lm/W	129	144	148	148	113	126	129	130	
BUG	B4 U0 G2	B4 U0 G3	B5 U0 G3	B5 U0 G3	B4 U0 G3	B4 U0 G3	B4 U0 G3	B4 U0 G3	

WATTAGE	DISTRIBUTION Type, Lm/W & BUG	LUMENS (all CCT = >70 CRI)							
		G0 option - primary lens				G1 option - glare control			
		2700K	3000K	4000K	5000K	2700K	3000K	4000K	5000K
220 E Output	II	24670	27560	28280	28430	21830	24390	25020	25140
	Lm/W	112	125	129	129	99	111	114	114
	BUG	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G4	B3 U0 G4	B3 U0 G4
	III	24740	27630	28350	28500	21800	24350	24990	25110
	Lm/W	112	126	129	130	99	111	114	114
	BUG	B3 U0 G3	B3 U0 G4	B3 U0 G4	B3 U0 G4	B3 U0 G4	B3 U0 G4	B3 U0 G4	B3 U0 G4
	IV	24710	27600	28320	28470	21730	24270	24910	25030
	Lm/W	112	125	129	129	99	110	113	114
	BUG	B3 U0 G3	B3 U0 G4	B3 U0 G4	B3 U0 G4	B3 U0 G4	B3 U0 G4	B3 U0 G4	B3 U0 G4
240 E Output	V	27760	31010	31820	31980	24500	27370	28090	28230
	Lm/W	126	141	145	145	111	124	128	128
	BUG	B4 U0 G2	B5 U0 G3	B5 U0 G3	B5 U0 G3	B4 U0 G3	B4 U0 G3	B4 U0 G3	B4 U0 G3
	II	26760	29890	30670	30830	23510	26260	26950	27080
	Lm/W	112	125	128	128	98	109	112	113
	BUG	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G4	B3 U0 G4	B3 U0 G4
	III	26830	29970	30750	30910	23470	26220	26910	27040
	Lm/W	112	125	128	129	98	109	112	113
	BUG	B3 U0 G3	B3 U0 G4	B3 U0 G4	B3 U0 G4	B3 U0 G4	B3 U0 G4	B3 U0 G4	B3 U0 G4
260 E Output	IV	26800	29930	30710	30870	23390	26130	26820	26950
	Lm/W	112	125	128	129	97	109	112	112
	BUG	B3 U0 G4	B3 U0 G4	B3 U0 G4	B3 U0 G4	B3 U0 G4	B3 U0 G4	B3 U0 G4	B3 U0 G4
	V	30110	33630	34510	34690	26380	29470	30240	30390
	Lm/W	125	140	144	145	110	123	126	127
	BUG	B5 U0 G3	B5 U0 G3	B5 U0 G3	B5 U0 G3	B4 U0 G3	B4 U0 G3	B4 U0 G3	B4 U0 G3
	II	28700	32060	32900	33070	25210	28160	28900	29040
	Lm/W	110	123	127	127	97	108	111	112
	BUG	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G4	B3 U0 G4	B3 U0 G4
280 E Output	III	28770	32140	32980	33150	25170	28110	28850	28990
	Lm/W	111	124	127	128	97	108	111	112
	BUG	B3 U0 G4	B3 U0 G4	B4 U0 G4	B4 U0 G4	B3 U0 G4	B3 U0 G4	B3 U0 G4	B3 U0 G4
	IV	28740	32110	32950	33120	25090	28020	28760	28900
	Lm/W	111	124	127	127	97	108	111	111
	BUG	B3 U0 G4	B3 U0 G4	B3 U0 G4	B3 U0 G4	B3 U0 G4	B3 U0 G4	B3 U0 G4	B3 U0 G4
	V	32290	36070	37020	37210	28290	31600	32430	32590
	Lm/W	124	139	142	143	109	122	125	125
	BUG	B5 U0 G3	B5 U0 G3	B5 U0 G3	B5 U0 G3	B4 U0 G3	B4 U0 G3	B5 U0 G3	B5 U0 G3
300 E Output	II	30650	34230	35130	35310	26910	30060	30850	31000
	Lm/W	109	122	125	126	96	107	110	111
	BUG	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G3	B3 U0 G4	B3 U0 G4	B4 U0 G4	B4 U0 G4
	III	30730	34320	35220	35400	26870	30010	30800	30950
	Lm/W	110	123	126	126	96	107	110	111
	BUG	B3 U0 G4	B4 U0 G4	B4 U0 G4	B4 U0 G4	B3 U0 G4	B3 U0 G5	B3 U0 G5	B3 U0 G5
	IV	30690	34280	35180	35360	26780	29910	30700	30850
	Lm/W	110	122	126	126	96	107	110	110
	BUG	B3 U0 G4	B4 U0 G4	B4 U0 G4	B4 U0 G4	B3 U0 G4	B3 U0 G5	B3 U0 G5	B3 U0 G5
300 E Output	V	34490	38510	39530	39730	30200	33730	34620	34790
	Lm/W	123	138	141	142	108	120	124	124
	BUG	B5 U0 G3	B5 U0 G3	B5 U0 G3	B5 U0 G3	B4 U0 G3	B5 U0 G3	B5 U0 G3	B5 U0 G3
	II	32670	36490	38290	38490	28600	31940	33790	33960
	Lm/W	109	122	128	128	95	106	113	113
	BUG	B3 U0 G3	B3 U0 G4	B3 U0 G4	B3 U0 G4	B3 U0 G4	B4 U0 G4	B4 U0 G4	B4 U0 G4
	III	31930	35660	36600	36780	28050	31330	32150	32310
	Lm/W	106	119	122	123	94	104	107	108
	BUG	B3 U0 G4	B4 U0 G4	B4 U0 G4	B4 U0 G4	B3 U0 G4	B3 U0 G5	B3 U0 G5	B3 U0 G5
300 E Output	IV	32720	36540	37500	37690	28460	31780	32610	32780
	Lm/W	109	122	125	126	95	106	109	109
	BUG	B3 U0 G4	B4 U0 G4	B4 U0 G4	B4 U0 G4	B3 U0 G4	B3 U0 G5	B3 U0 G5	B3 U0 G5
	V	36750	41050	42130	42340	32260	36030	36970	37160
	Lm/W	123	137	140	141	108	120	123	124
	BUG	B5 U0 G3	B5 U0 G3	B5 U0 G3	B5 U0 G3	B4 U0 G3	B5 U0 G3	B5 U0 G3	B5 U0 G3