




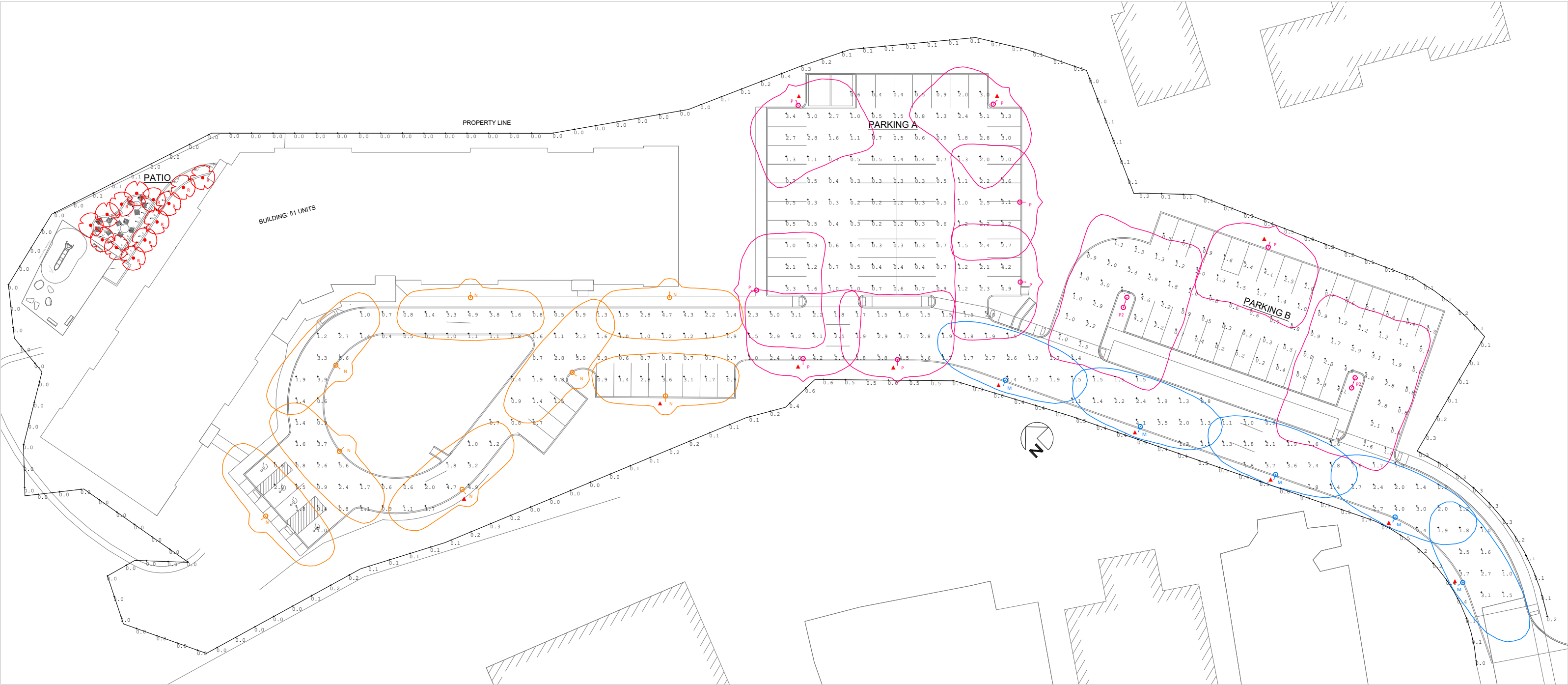
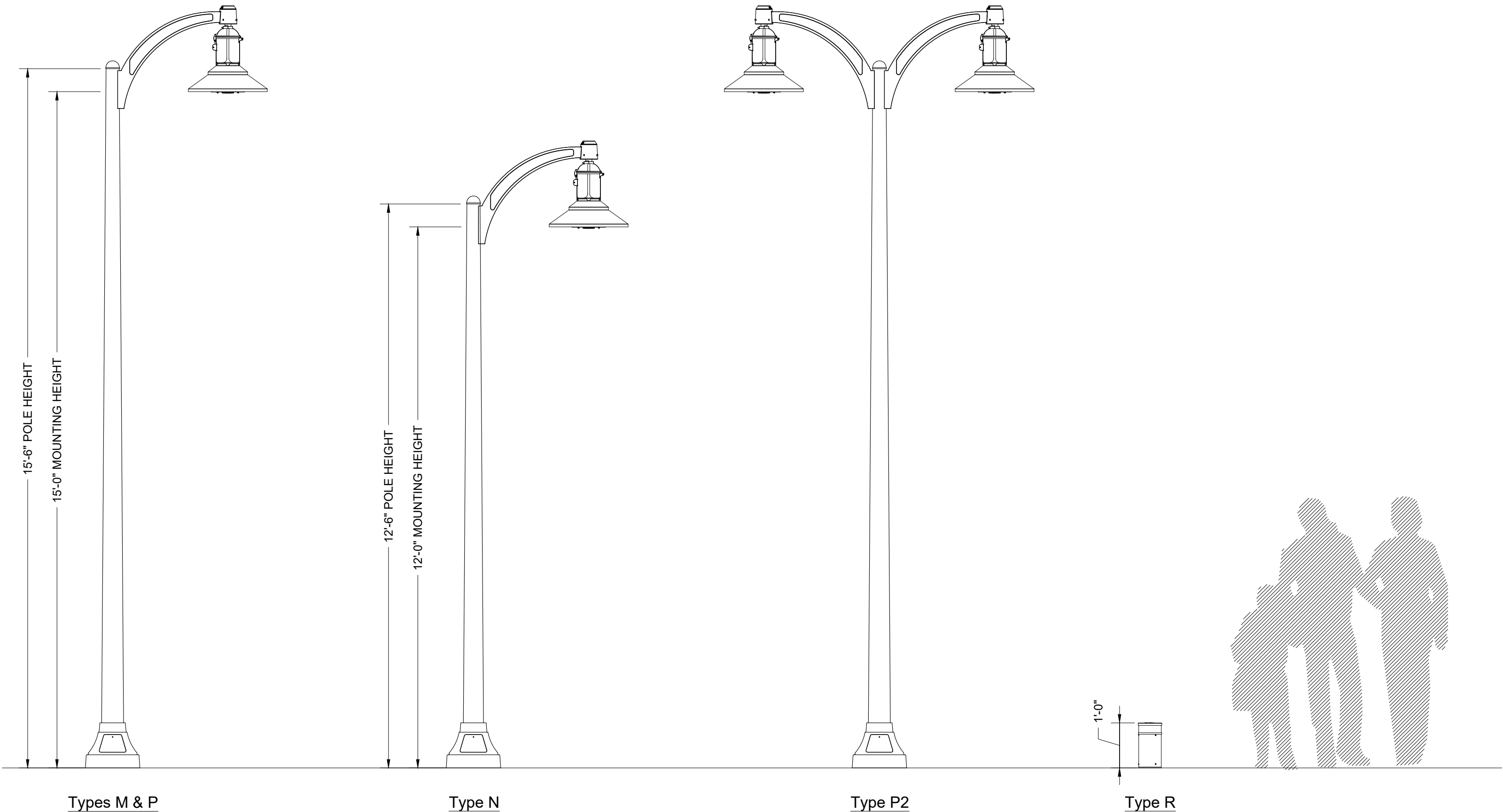


Luminaire Schedule												
Symbol	Label	Qty	Description	Arrangement	IES Class	CCT	Arm	MH	LLF	Lumens	Watts	Filename
	M	5	King Luminaire: K723-P4FL-III-25-3K	SINGLE	Type III	3000K	2.5	15	0.900	3717	27.7	0700sp4fl3x02530xxe.ies
	N	8	King Luminaire: K723-P4FL-III-25-3K	SINGLE	Type III	3000K	2.5	12	0.900	3717	27.7	0700sp4fl3x02530xxe.ies
	P	8	King Luminaire: K723-P4FL-IV-40-3K	SINGLE	Type IV	3000K	2.5	15	0.900	4966	42.5	0700NP4FL4X04030XXE.IES
	P2	2	King Luminaire: K723-P4FL-IV-40-3K	BACK-BACK	Type IV	3000K	2.5	15	0.900	4966	42.5	0700NP4FL4X04030XXE.IES
	R	13	Heper: Troli S Bollard, 3K	SINGLE	Type IV	3000K	0	1	0.900	479	10	LB7032.693-US-SYM-3L-700-830.ies

Calculation Summary - Area							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Driveway	Illuminance	Fc	2.0	5.6	0.4	4.9	14.0
Parking A	Illuminance	Fc	1.3	5.1	0.2	6.5	25.5
Parking B	Illuminance	Fc	1.5	4.9	0.2	7.6	24.5
Patio	Illuminance	Fc	2.5	16.8	0.3	8.4	56.0

NOTE:  
▲ = King Luminaire HSS4, 6" House Side Shield installed  
The foot-candles shown do not represent the blocking of light from the shields. Using the shields will meet the overspill limitation regulation.

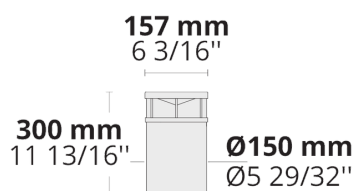
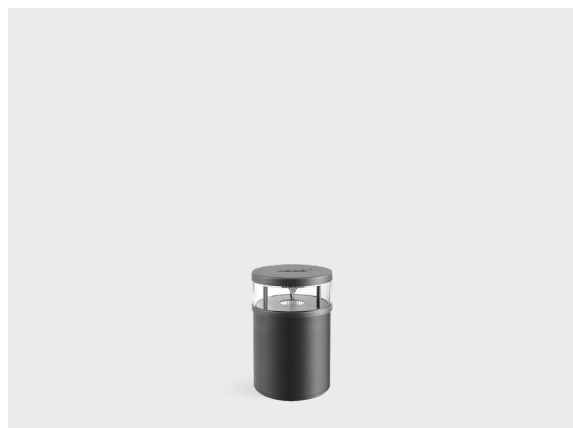




# TROLI S

LB7032.693-US

IK05 IP65



[SYM-3L]

Symmetric, 360°,  
Special effect: 3  
lines

## Configurations

Light distribution	[SYM-3L] 360° x 165°
Nominal LED lumens flux	1140 - 1225 lm
Nominal LED power	8 W (700 mA)
Rated luminaire lumens flux	489 - 537 lm
Rated luminaire power	10 W
Color temperature	3000 K CRI 80, 4000 K CRI 70
BUG rating	B1-U0-G1
Lifetime L90	>72, 600 hours
Lifetime L80	>72, 600 hours

## Options

Control	On/Off
Input voltage	120-277V 50/60Hz
Insulation class	Class I
Product colors	

## Extras








Finishing options	Double coating
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## Technical information

Housing	Corrosion resistant aluminum housing
Finishing	Electrostatic powder coating
Fasteners	Stainless steel (grade 304)
Lens / Reflector	High reflectance aluminium coating
Glass / Diffusor	Tempered safety glass
Impact protection	IK05
Ingress protection	IP65
Weight	5.5 lb
LED module	Multi-chip high power LEDs on metal-core PCB
Driver	Internal LED driver
Driver surge protection	4/2 kV
Power factor	> 0.90
Through wiring	Single cable entry
Cable	19 11/16" of flexible cable

Project name				Type		Quantity	
Date		Note					

**LB7032.693-US-**\_\_\_\_-\_\_\_\_-\_\_\_\_-\_\_\_\_-\_\_\_\_-\_\_\_\_-\_\_\_\_-\_\_\_\_-\_\_\_\_

Light distribution	Drive current (LED power)	Color temperature	Control	Input voltage
<b>SYM-3L</b> Symmetric, 360°, Special effect: 3 lines - 360° x 165°	<b>700</b> 8 W (700 mA)	<b>830</b> 3000 K CRI 80  <b>740</b> 4000 K CRI 70	<b>ONOFF</b> On/Off	<b>UNI</b> 120-277V 50/60Hz
Insulation class	Product colors	Extras		
<b>C1</b> Class I	<b>HM1</b>  Black (Textured)  <b>HM2</b>  Dark gray (Textured)  <b>HM3</b>  Anthracite gray (Textured)  <b>HM4</b>  Light gray (Textured)  <b>HM5</b>  White (Textured)  <b>HM6</b>  Bronze (Textured)  <b>CC</b>  Custom Colour (Please specify RAL code)	Finishing options		
		<b>DC</b> Double coating		



## K723 FALCONRIDGE JR. - LED

A 3/4 scaled version of the K823, the K723 Falconridge Jr. is a sleek, shrouded fixture designed to be used on its own in a street or area lighting system, or in combination with its matching K800 luminaire. This allows both roadway and pedestrian concerns to be individually met without any compromise.



**King  
Luminaire**

## PRODUCT SPECIFICATIONS

### LED ENGINE

Light engine shall include an array of 30 solid state Cree X-Series high power LEDs (light emitting diodes). The emitters shall be mounted to a metal core circuit board using SMT technology. The LEDs and circuit boards shall then be mounted to a high performance heat sink which is vented to the outside ambient air to provide dynamic airflow for cooling the system.

### OPTICS

External light control shall consist of high precision refractive lenses mounted above the LED emitter arrays in such a way to achieve optimum uplight control. The lenses shall also control horizontal light distribution so that Type II, III, IV or V IESNA distribution patterns are achieved.

### LENS

The K723 Falconridge Jr. pendant is available with or without a lens. Lens options include; sag glass lens; shallow glass lens; rippled acrylic shallow lens; or rippled acrylic deep dish lens. The glass lens shall be made of #9000 clear borosilicate glass (fully annealed). It shall maintain a minimum thickness of 0.16". The acrylic lens shall be moulded of rippled acrylic Acrylite Plus Acrylic Polymer, or equivalent, having a minimum thickness of 0.15". The lens is secured by means of a cast A319 aluminum holding ring that is sealed to provide an IP66 Ingress rating. Additionally, a continuous circular gasket rated for 270°F must hold the lens into place within the cast ring assembly and assist in sealing the fixture.

### CAST HOUSING

The luminaire shall consist of a heavy Grade A319 cast aluminum housing that acts as the enclosure for the engine and is of adequate thickness to give structural rigidity. The engine must be affixed to the inside of the housing with stainless steel screws.

### PLUMBIZER

The K723 Falconridge Jr. comes with multiple mounting op-

tions including the KPL10, KPL11, KPL20, KPL21, KPL30, KPL31 and KPL40. Please contact King Luminaire for more details and specifications.

### DRIVER

The LED universal dimmable driver will be class 2 and capable of 120 - 277V or 347 - 480V input voltage, greater than 0.9 power factor, less than 20% total harmonic distortion. The case temperature of the driver can range from -40°C up to 70°C. Each LED system comes with a standard surge protection designed to withstand up to 20kV/10kA of transient line surge as per IEEE C62.41.2 C High. An in-line ferrite choke is utilized to provide protection against EFT's. The driver assembly will be mounted on a fabricated aluminum bracket to allow complete tool-less maintenance. Dimming capable using 1-10vdc (10% to 100%), 10v PWM, or resistance.

### PHOTOMETRICS

Fixtures are tested to IESNA LM79 specifications. These reports are available upon request.

### CHROMATICITY

High output LEDs come standard at 3000K & 4000K (+/- 300K) with a minimum nominal 70 CRI. Additional CCT emitters are available upon request.

### LUMEN MAINTENANCE

Reported (TM21) and Calculated (L70) reports are available upon request with a minimum calculated value of 100,000 hrs.

### WIRING

All internal wiring and connections shall be completed so that it will be necessary only to attach the incoming supply connectors to Mate-N-Lok connectors or to a terminal block. Mate-N-Lok shall be certified for 600V operation. Internal wire connectors shall be crimp connector only and rated at 1000V and 150°C. All wiring to be CSA certified and/or UL listed, type SFF-2, SEWF-2, or SEW-2 No. 14 gauge, 150°C, 600V, and color coded for the required voltage.

### THERMALS

Fixtures tested to DOE sanctioned standards to determine the maximum in-situ solder-point or junction-point temperatures of the LED emitters. This report is available upon request.

### FINISH

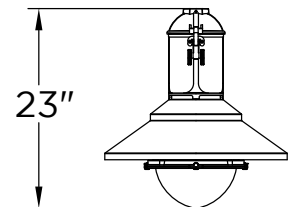
Housing is finished with a 13 step KingCoat™ SuperDurable polyester TGIC powder coat. Standard colors include strobe white, brown metal, marina blue, gate gray, Chicago bronze, standard gold, standard black, federal green and rain forest. Please see our website for a complete list of colors. RAL and custom color matches are available.

### MISCELLANEOUS

All exterior hardware and fasteners, wholly or partly exposed, shall be stainless steel alloy. All internal fasteners are stainless steel or zinc coated steel. All remaining internal hardware is stainless steel, aluminum alloy, or zinc coated steel.

### WARRANTY

The K723 Falconridge Jr. LED luminaire comes with a 7 year limited warranty.



### CERTIFICATION:

CSA US Listed  
Suitable for wet locations  
ISO 9001  
IP66  
ARRA Compliant  
LM79 / LM80 Compliant

### DRIVER INFO:

>0.9 Power Factor  
<20% Total Harmonic Distortion  
120 - 277V & 347 - 480V  
-40°C Min. Case Temperature  
70°C Max. Case Temperature  
Surge Protection: ANSI C136.2  
extreme level 20kV/10kA  
Dimming Capable: 1-10vdc

### EPA:

Flat:	0.52 sq. ft.
Sag Lens:	0.63 sq. ft.
Shallow Lens:	0.71 sq. ft.
Deep Dish Lens:	0.74 sq. ft.

### FIXTURE WEIGHT:

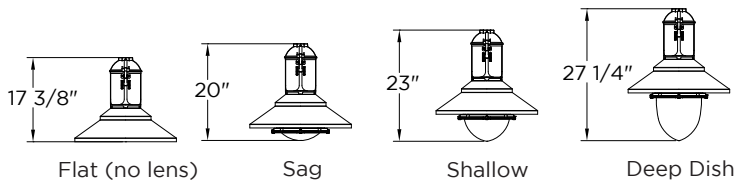
Flat:	21 lbs
Sag Lens:	24 lbs
Shallow Lens:	25 lbs
Deep Dish Lens:	25 lbs



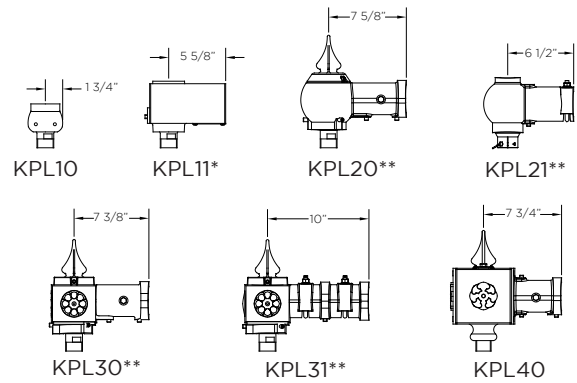
# FIXTURE OPTIONS

K723 FALCONRIDGE JR. - LED

## Lens Options



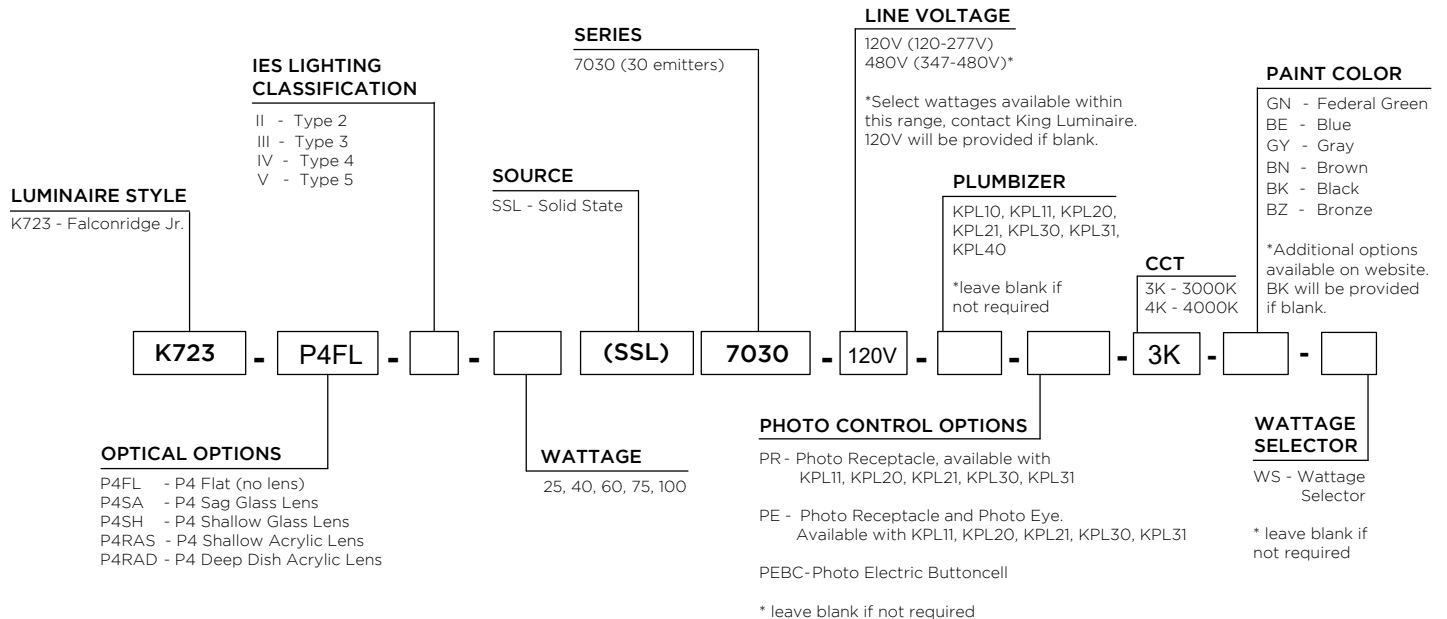
## Plumbizer/Mounting Options



\*Available with PR7

\*\*Available with PR7 or final

# HOW TO ORDER



# HOUSE SIDE SHIELDS

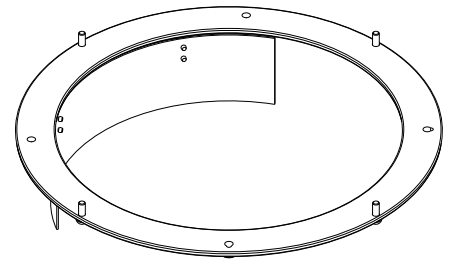
## Pendant P4 Optical Engine



House Side Shields designed for our P4 optical system are available for all pendant lens options.

## HSS4 - P4 with Flat, Sag or Shallow Lens

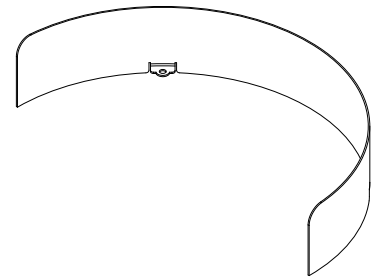
- Available for production of new luminaires
- Suitable for field installation into existing luminaires
- Available for P4 engine with no lens, sag or shallow lens
- 2", 4" and 6" shield height options
- Shield coverage of 120° and 180°



Ring with shield easily installed outside of the flat array engine with four screws.

## HSS5 - P4 with Deep Dish Lens

- Available for production of new luminaires
- Suitable for field installation into existing luminaires
- Available for P4 engine with acrylic or glass deep dish lens
- 3" and 6" shield height options
- Shield coverage of 120° and 180°



Shield easily installed outside of the flat array engine with two screws.

# HOUSE SIDE SHIELDS

## Pendant P4 Optical Engine



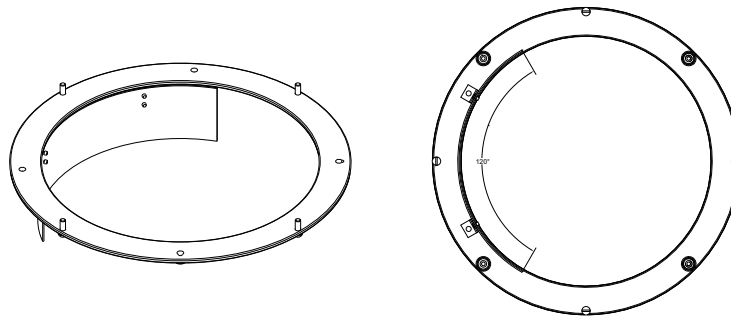
## INSTALLATION INSTRUCTIONS

**WARNING:** Read these instructions carefully before attempting to install or maintain this product. Work must be done by qualified personnel. Improper installation or maintenance may result in personal injury or death or significant property damage.

**WARNING:** Be certain that all electrical power is disconnected from the fixture before installing or maintaining the fixture. Failure to do so may result in personal injury or death.

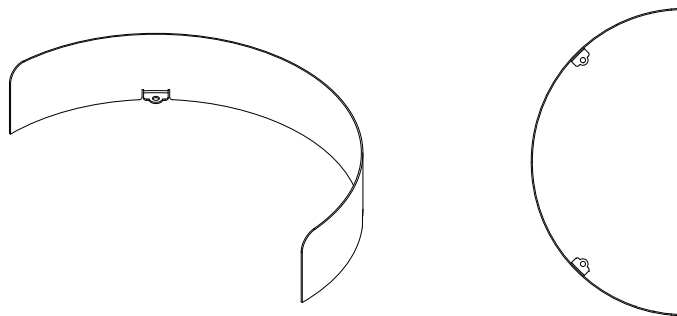
### HSS4:

1. Disconnect the electrical supply to the intended luminaire location.
2. To install the HSS:
  - a) For flat (no lens) fixtures, place the ring so that the shield is positioned to block light in the desired location and secure the ring using the four supplied screws.
  - b) With sag and shallow lens fixtures, while supporting the lens, remove the existing lens holder ring and replace it with the new ring containing the shield. Place the ring so that the shield is positioned to block light in the desired location and secure the ring using the existing screws.
3. Re-connect the electrical power supply and check for proper operation.



### HSS5:

1. Disconnect the electrical supply to the intended luminaire location.
2. To install the HSS:
  - a) Remove the existing two screws from the lens holder ring and then place the shield so that it is positioned to block light in the desired location. Secure the shield to the lens holder ring using the existing screws.
3. Re-connect the electrical power supply and check for proper operation.







## IES ROAD REPORT

PHOTOMETRIC FILENAME : 0700SP4FL3X04030XXE.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]723P4FL304030E-G02246  
 [TESTLAB]SCGPL  
 [ISSUEDATE]12/19/17  
 [TESTDATE]12/19/17  
 [MANUFAC]King Luminaire  
 [LUMCAT]K723-P4FL-III-40(SSL)-7030  
 [LUMINAIRE]NVLAP LOGO AND LAB ID NUMBER SHALL NOT BE USED BY THE CLIENT TO  
 [MORE]CLAIM THE PRODUCT CERTIFICATION, APPROVAL, OR ENDORSEMENT BY NVLAP, NIST,  
 [MORE]OR ANY GOVERNMENT AGENCY  
 [LAMPCAT]XPGDWT-00-0000-00H7E  
 [LAMP]AC POWER. NOMINAL CCT: 3000K. MEASURED CCT: 3060K. LAB EQUIPMENT USED:  
 [MORE]K723-1, 40H-20B-1, ENG-17. STABILIZATION TIME: 1 HOUR 15 MINUTES. TOTAL  
 [MORE]OPERATION TIME: 2 HOURS 5 MINUTES. DISTANCE FROM MIRROR TO PHOTOMETRIC  
 [MORE]EYE: 23 FEET.  
 [BALLASTCAT]Meanwell HLG-40H-20B  
 [OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 40.1 WATTS, 0.335 AMPS  
 [ MOUNTING]Post Top  
 [ ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
 [ PFandTHD]POWER FACTOR: 1.0, VOLTAGE THD: 0.2, CURRENT THD: 6.3  
 [ TEMP0]AMBIENT: 26.0  
 [ ABSOLUTELUMENS]4892

### CHARACTERISTICS

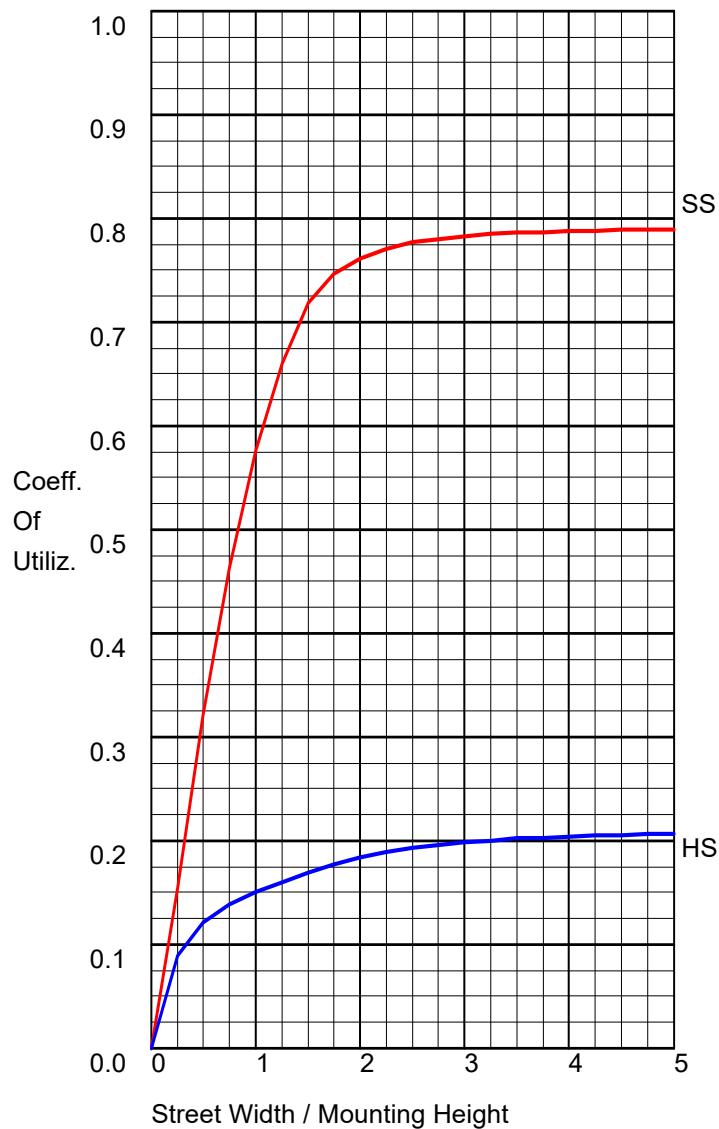
IES Classification	Type III
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4892
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	40.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3498
Maximum Candela Angle	71H 68V
Maximum Candela (<90 Degrees Vertical)	3498
Maximum Candela Angle (<90 Degrees Vertical)	71H 68V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	440 (9.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : 0700SP4FL3X04030XXE.IES**

**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	607.9	N.A.	12.4
FM - Front-Medium (30-60)	2010.2	N.A.	41.1
FH - Front-High (60-80)	1233.7	N.A.	25.2
FVH - Front-Very High (80-90)	16.9	N.A.	0.3
BL - Back-Low (0-30)	199.1	N.A.	4.1
BM - Back-Medium (30-60)	416.1	N.A.	8.5
BH - Back-High (60-80)	394.5	N.A.	8.1
BVH - Back-Very High (80-90)	13.4	N.A.	0.3
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	4891.8	N.A.	100.0
BUG Rating	B1-U0-G1		

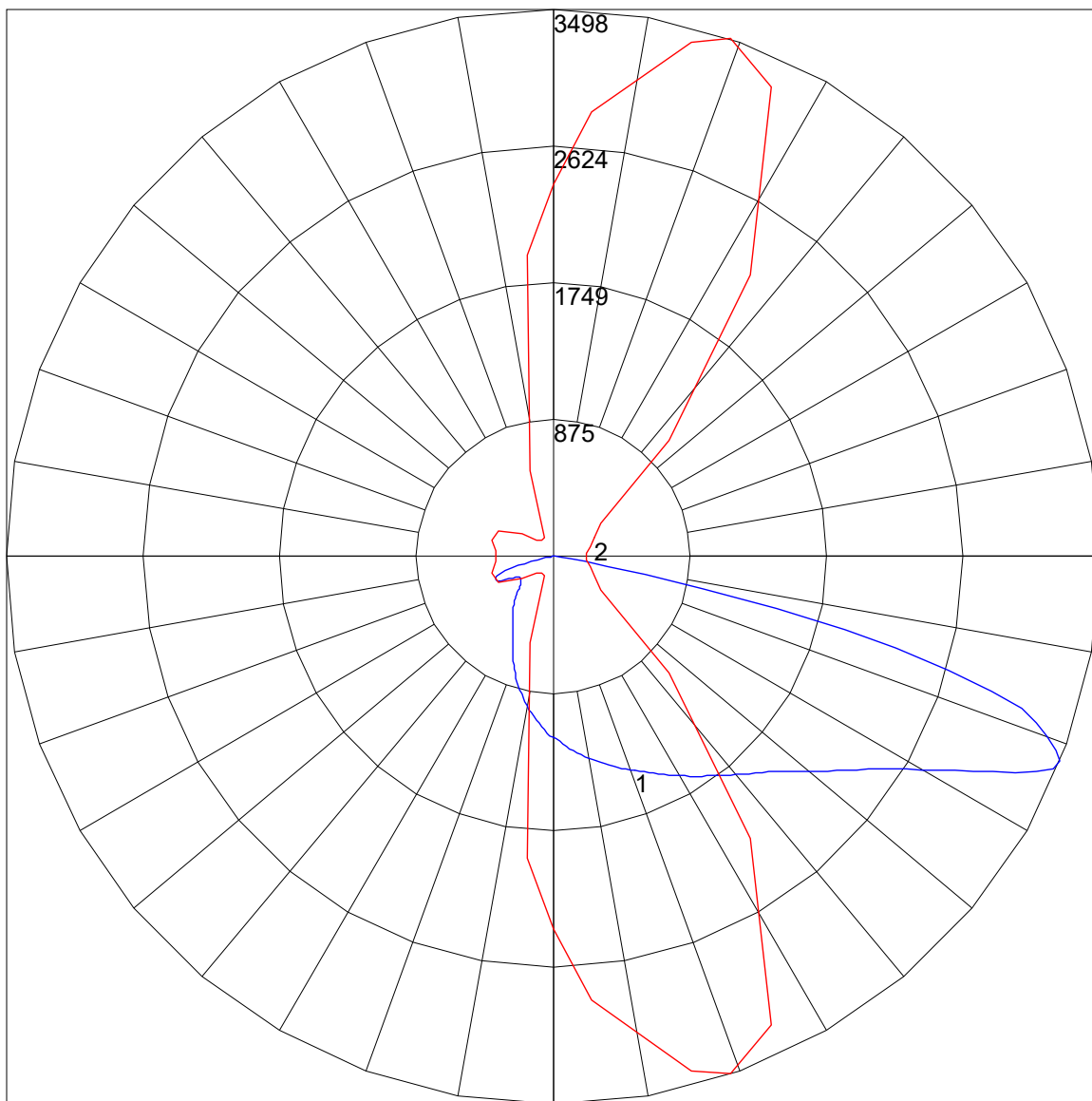
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

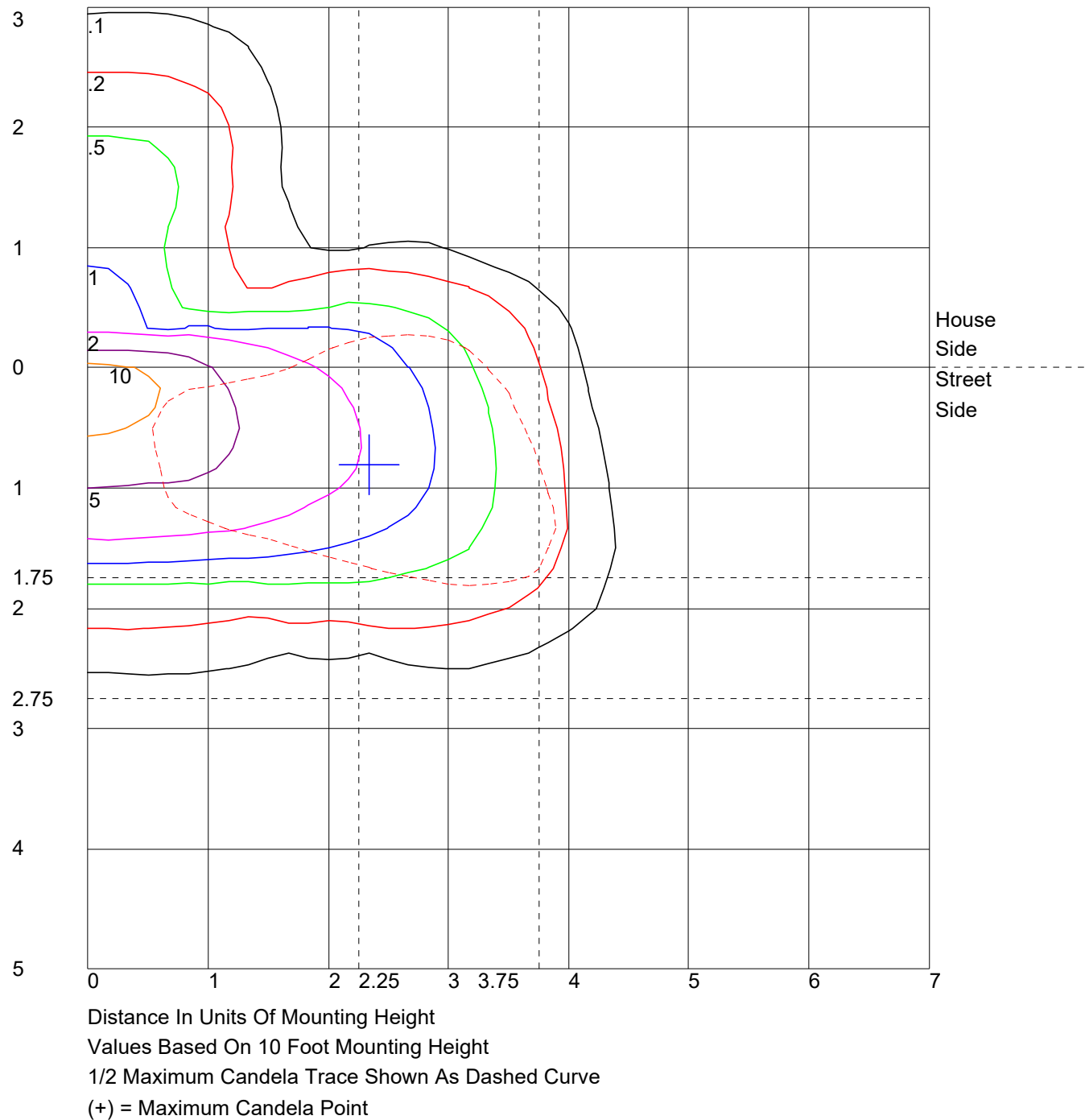
	Lumens	Percent Of Luminaire
Downward Street Side	3868.7	79.1
Downward House Side	1023.2	20.9
Downward Total	4891.9	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	4891.9	100.0

POLAR GRAPH

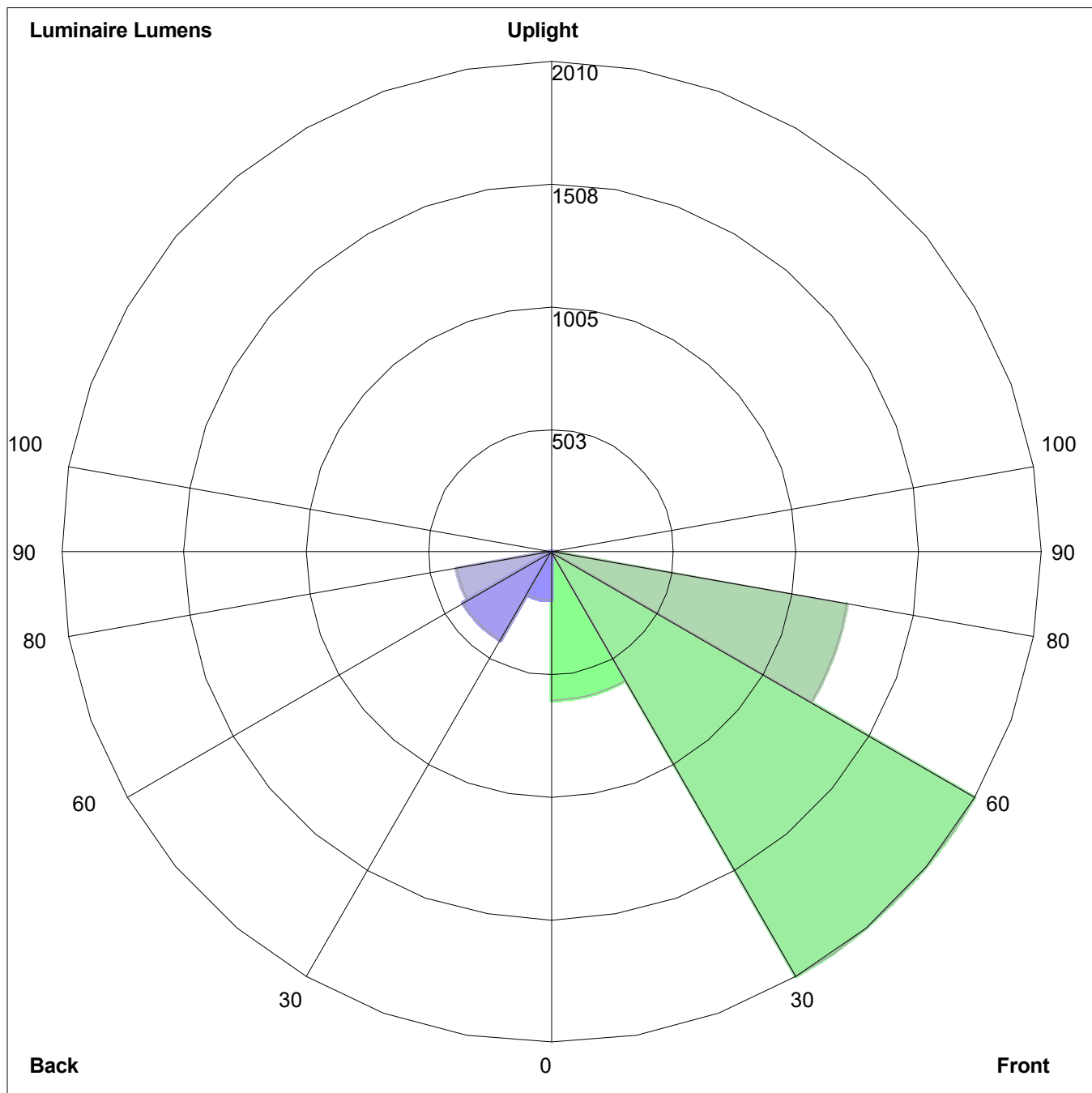


Maximum Candela = 3498 Located At Horizontal Angle = 71, Vertical Angle = 68  
# 1 - Vertical Plane Through Horizontal Angles (71 - 251) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (68) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=607.9, Medium=2010.2, High=1233.7, Very High=16.9  
Back: Low=199.1, Medium=416.1, High=394.5, Very High=13.4  
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1



## IES ROAD REPORT

PHOTOMETRIC FILENAME : 0700SP4FL3X02530XXE.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]0700SP4FL3X02530XXE  
 [TESTLAB]SCGPL  
 [ISSUEDATE]04/12/18  
 [TESTDATE]04/12/18  
 [MANUFAC]King Luminaire  
 [LUMCAT]K729-P4FL-III-25(SSL)-7030-3K  
 [LUMINAIRE]NVLAP LOGO AND LAB ID NUMBER SHALL NOT BE USED BY THE CLIENT TO  
 [MORE]CLAIM THE PRODUCT CERTIFICATION, APPROVAL, OR ENDORSEMENT BY NVLAP, NIST,  
 [MORE]OR ANY GOVERNMENT AGENCY  
 [LAMPCAT]XPGDWT-00-0000-00H7E  
 [LAMP]AC POWER. LAB EQUIPMENT USED:  
 [MORE]K700S-2, ROAL-1 , ENG-17. STABILIZATION TIME: 1 HOUR 05 MINUTES. TOTAL  
 [MORE]OPERATION TIME: 2 HOURS 0 MINUTES. DISTANCE FROM MIRROR TO PHOTOMETRIC  
 [MORE]EYE: 23 FEET.  
 [BALLASTCAT]Roal RSLD035-6A  
 [OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 27.7 WATTS, 0.233 AMPS  
 [OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 26.9 WATTS, 0.099 AMPS  
 [ MOUNTING]Pendant  
 [ ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
 [ PFandTHD](120 V)POWER FACTOR: 0.991, VOLTAGE THD: 0.180, CURRENT THD: 8.84  
 [ PFandTHD](277 V)POWER FACTOR: 0.985, VOLTAGE THD: 0.144, CURRENT THD: 10.08  
 [ TEMP0]AMBIENT: 24.3  
 [ ABSOLUTELUMENS]3717

### CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3717
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	27.7
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2553
Maximum Candela Angle	71H 69V
Maximum Candela (<90 Degrees Vertical)	2553
Maximum Candela Angle (<90 Degrees Vertical)	71H 69V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	366 (9.8% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

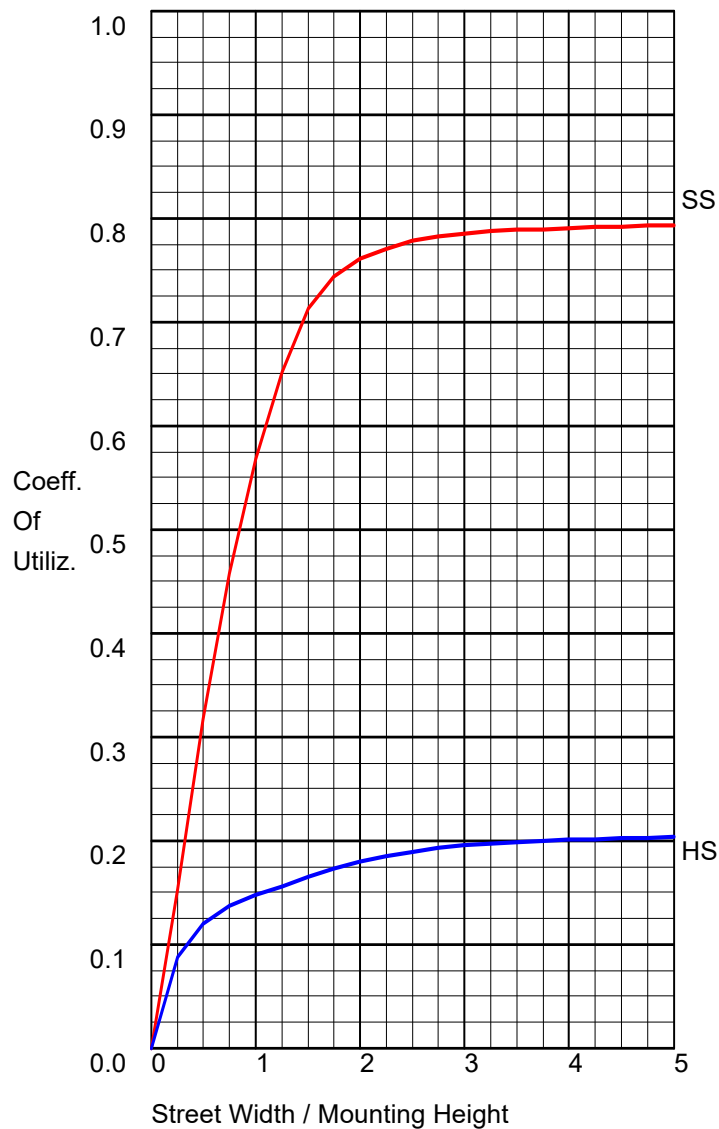
**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : 0700SP4FL3X02530XXE.IES**

**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	464.7	N.A.	12.5
FM - Front-Medium (30-60)	1514.0	N.A.	40.7
FH - Front-High (60-80)	959.4	N.A.	25.8
FVH - Front-Very High (80-90)	15.3	N.A.	0.4
BL - Back-Low (0-30)	153.3	N.A.	4.1
BM - Back-Medium (30-60)	305.3	N.A.	8.2
BH - Back-High (60-80)	295.9	N.A.	8.0
BVH - Back-Very High (80-90)	8.9	N.A.	0.2
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	3716.8	N.A.	100.0
BUG Rating	B1-U0-G1		



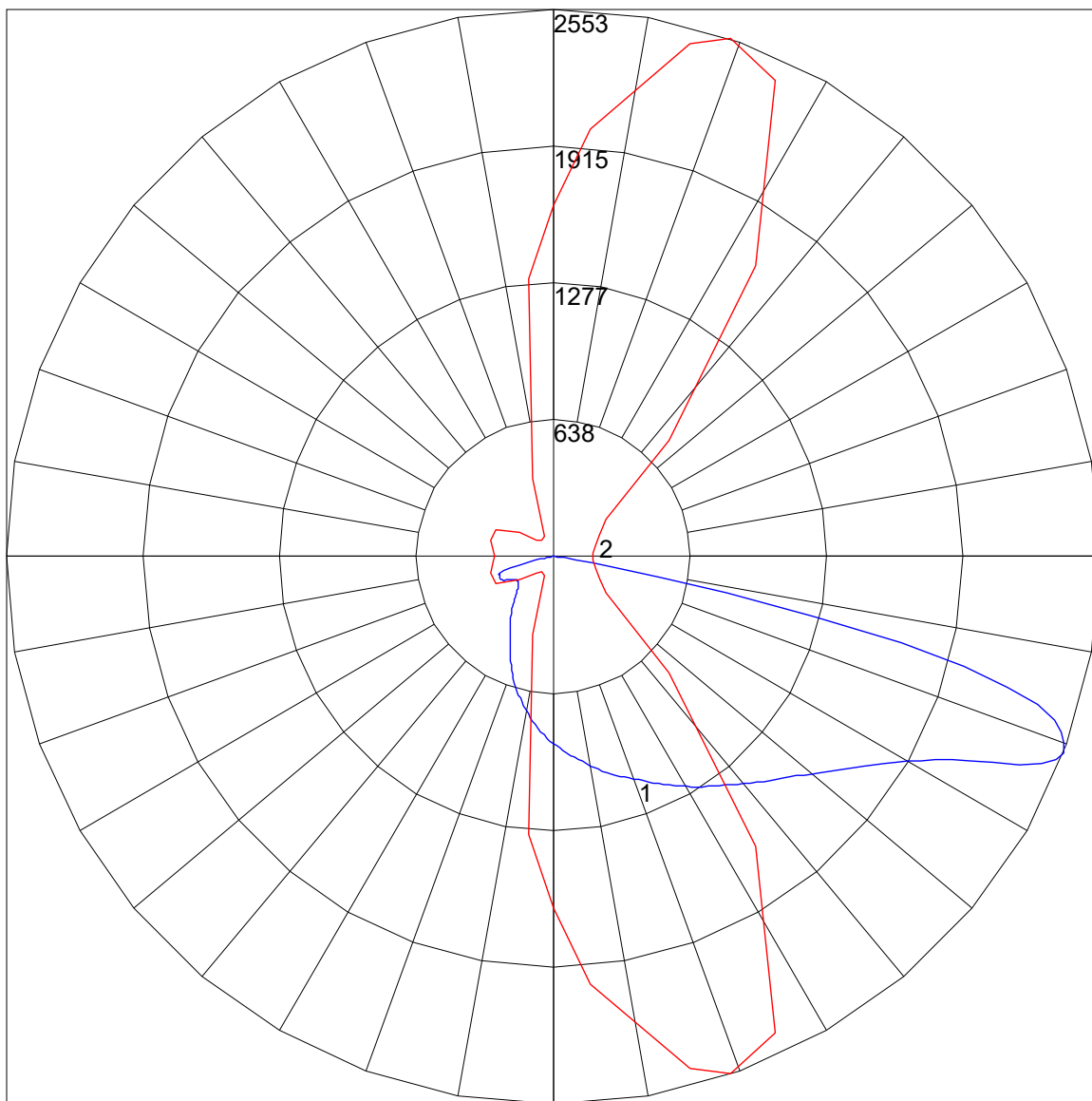
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

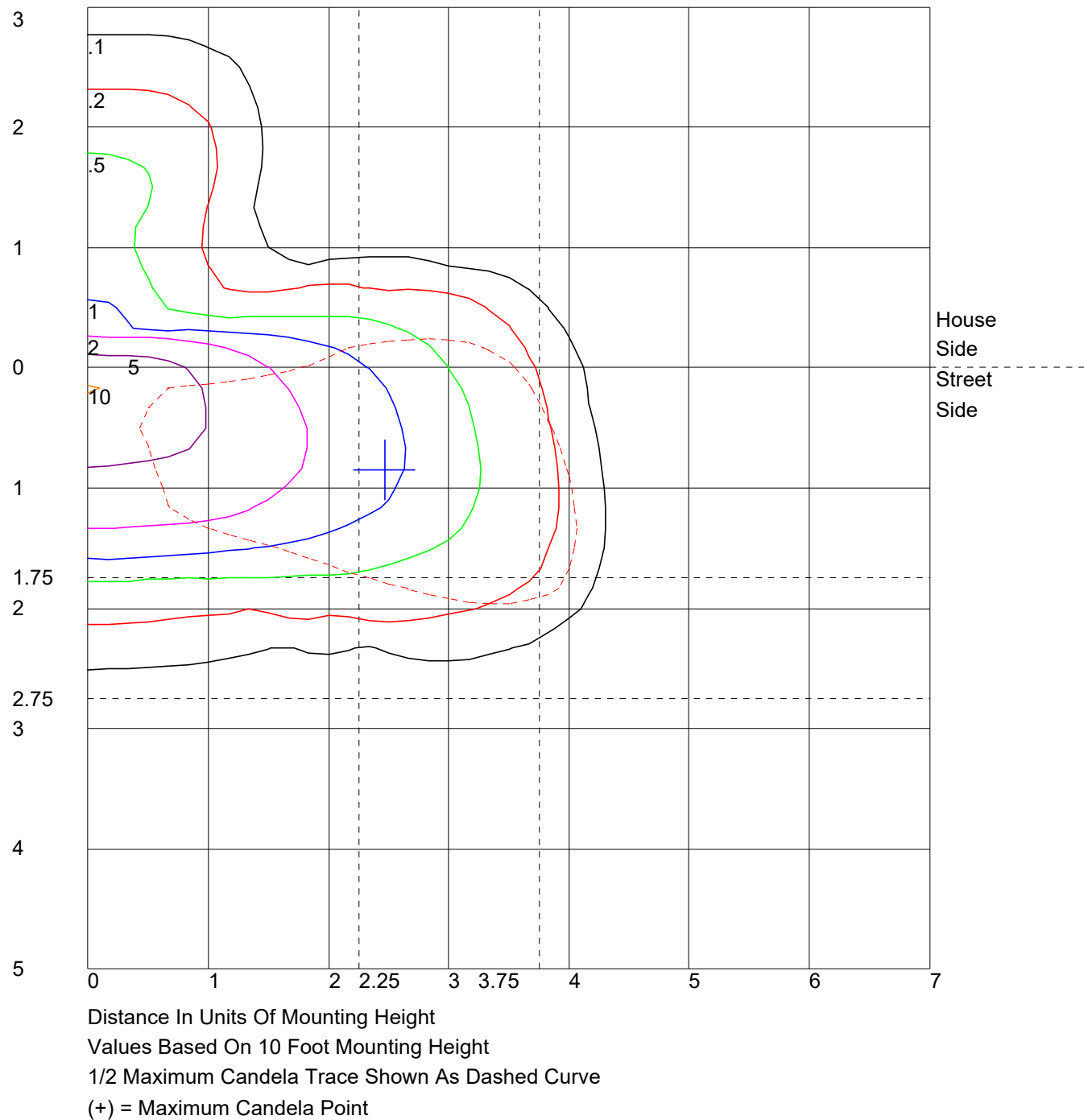
	Lumens	Percent Of Luminaire
Downward Street Side	2953.4	79.5
Downward House Side	763.3	20.5
Downward Total	3716.7	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	3716.7	100.0

POLAR GRAPH

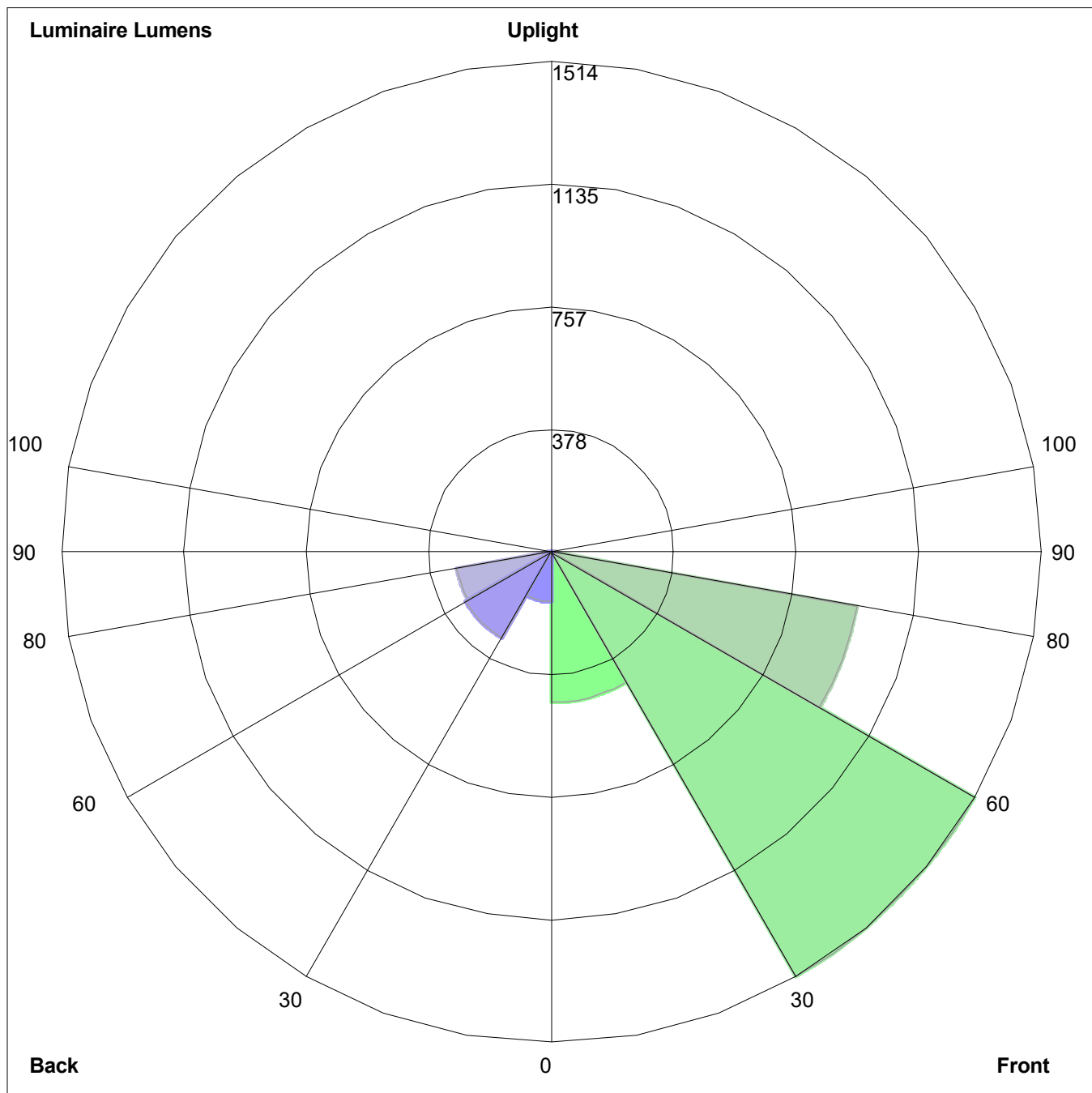


Maximum Candela = 2553 Located At Horizontal Angle = 71, Vertical Angle = 69  
# 1 - Vertical Plane Through Horizontal Angles (71 - 251) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (69) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=464.7, Medium= 1514.0, High=959.4, Very High=15.3  
Back: Low=153.3, Medium=305.3, High=295.9, Very High=8.9  
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1