SILL® PRO Series

PR020, PR021 and PR022 Projector Floodlights





Light. Ideas. Systems.



Contents











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Overview

verview







PRO Series

IP 67

PR020

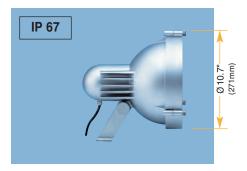
Lamping: 13W – 18W Compact Fluorescent

> 35W - 100W H.I.D 35W – 120W Halogen

Beam Patterns: Narrow Spot, Medium Spot

Narrow Flood, Medium Flood Horizontal/Vertical Narrow Horizontal/Vertical Medium Wide Spot, Wide Flood Horizontal/Vertical Wide

10°, 12°, 15° & 25° Spot/60° Flood



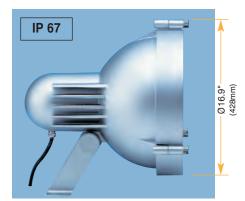
PR021

Lamping: 26W – 42W Compact Fluorescent

> 50W - 175W H.I.D. 100W - 150W Halogen

Beam Patterns: Narrow Spot, Medium Spot

Narrow Flood, Medium Flood Horizontal/Vertical Narrow Horizontal/Vertical Medium Wide Spot, Wide Flood Horizontal/Vertical Wide



PR022

Lamping: 150W -1000W H.I.D.

250W - 500W Halogen

Beam Patterns: Narrow spot, Medium Spot

Narrow Flood, Medium Flood Horizontal/Vertical Narrow Horizontal/Vertical Medium



Pressure die cast, specially formulated high purity aluminum GD-ALSi12 housing with heat dissipating fins. Secures and provides sealed optic chamber for reflector and lamp.

Reflector

Fixture Housing

Precision Formed, high performance reflector, in highly specular and diffuse finishes. Constructed of high purity aluminum with chemically brightened and anodized finish to produce optimum reflectivity for specified distributions.

Tempered Glass lens supplied in clear, spread or sand etched according to specified beam spread. Optional clear flush lens can be combined with any other lens to prevent dirt and water build up on lens/door assembly in up light applications. Rotatable spread lens, color filter glass and dichroic filters optionally available.

Socket

High quality sockets, located to precisely locate and secure lamps in optimum position. Refer to specification sheets for specific socket types for each distribution and lamp type.

Door Frame

Pressure die cast, specially formulated high purity aluminum GD-ALSi12 frame.

Door Fasteners

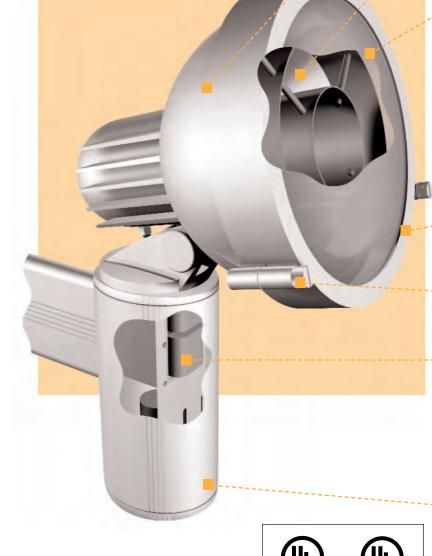
Three captive stainless steel knurled thumb screws fasten to stainless steel threaded inserts.

Ballast

Electronic, low THD, high power factor ballasts for wattages up to 70MH; or magnetic, high power factor, core and coil ballast for wattages up to 1000 watt (refer to spec sheets for detailed information, remote ballast required for over 400 watt). Ballasts mounted on removable tray which may be accessed from below housing while mounting and aiming remain fixed.

Ballast Housing

Extruded aluminum 6005-T5, with integral ballast. Ballast enclosure supplied with pressure die cast specially formulated high purity GD-ALSi12 aluminum end caps, top cap provides mounting yoke for fixture housing. Fixture yoke provides fixture rotation and is locked into position with stainless steel set screw. Available in various mounting configurations, refer to pages 14 - 15 for details.



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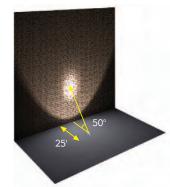
Floodlight Basics \$\square\$



Beam Patterns

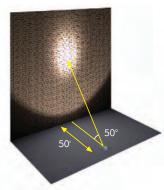
Building/Monument Surface Description Average Target Vertical Illuminance Area Location Ambient Lighting **Bright Surroundings** Light Surfaces **Bright Surroundings** Medium Light Surfaces 7fc **Bright Surroundings** Medium Dark Surfaces 10fc **Bright Surroundings** Dark Surfaces 15fc Dark Surroundings **Light Surfaces** 2fc Dark Surroundings Medium Light Surfaces 3fc Dark Surroundings Medium Dark Surfaces 4fc Dark Surfaces 5fc **Dark Surroundings**

Tilt 50°, Setback 25 ft Narrow Spot



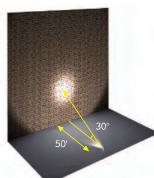
PR020-SN-H070T6

Tilt 50°, Setback 50 ft Narrow Spot



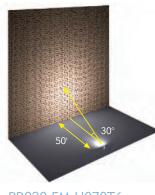
PR020-SN-H070T6

Tilt 30°, Setback 50 ft Narrow Spot



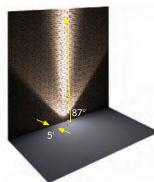
PR020-SN-H070T6

Tilt 30°, Setback 50 ft Medium Flood



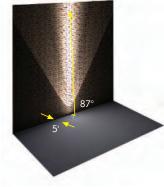
PR020-FM-H070T6

Tilt 87°, Setback 5 ft Narrow Spot



PR020-SN-H070T6

Tilt 87°, Setback 5 ft Narrow Spot w/Ring Louver



PR020-SN-H070T6-RL

Reflector

12 diverse beam patterns are available:	Narrow	Medium	Wide
Clear	Narrow Spot (SN)	Medium Spot (SM)	Wide Spot (SW)
Diffused/ Sanded	Narrow Flood (FN)	Medium Flood (FM)	Wide Flood (FW)
Vertical Spread	Vertical Narrow (VN)	Vertical Medium (VM)	Vertical Wide (VW)
Horizontal Spread	Horizontal Narrow (HN)	Horizontal Medium (HM)	Wide Flood (HW)

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PR020

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Selux Catalog #		NE Distrib	MA oution	Max Candela		a		am Angle Field / (50%) (10		Angle 1%)	Efficiency (%)		s)
		Н	V	Candela	Н	V	Н	V	Н	V	Beam	Field	Total
٦	PR020 - SW - 1F18 - RL	6	6	426	-9°	-1°	72.6°	70.9°	120.9°	120.2°	32.28%	50.00%	53.10%
	PR020 - SW - 1F13	6	6	371	-9°	-1°	68.8°	66.4°	117.4°	116.0°	34.18%	55.03%	59.15%
	PR020 - SW - 1F18	6	6	533	-11°	-3°	68.9°	65.9°	119.1°	117.8°	37.27%	60.14%	64.47%
	PR020 - SN - H035T6 - RL	1	1	48338	0°	0°	7.4°	7.4°	16.2°	16.2°	11.37%	28.78%	39.42%
	PR020 - SM - H035T6 - RL	3	3	11474	0°	0°	15.9°	15.9°	32.6°	32.6°	13.78%	30.55%	36.29%
	PR020 - SN - H070T6 - RL	2	2	64733	0°	0°	9.5°	9.5°	21.2°	21.2°	16.60%	33.75%	48.18%
	PR020 - SM - H070T6 - RL	3	3	19140	0°	0°	17.2°	17.2°	36.7°	36.7°	14.88%	30.54%	37.59%
	PR020 - SN - Q050 - RL	1	1	22033	0°	0°	5.6°	5.6°	12.4°	12.4°	10.25%	27.41%	41.72%
	PR020 - SN - Q090 - RL	1	1	52120	0°	0°	5.6°	5.6°	12.4°	12.4°	10.25%	27.41%	41.72%

Additional photometry available at www.selux.com/usa

PR021

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Selux Catalog #		NEI Distrib		Max Candela			Beam (50		Field Angle (10%)		Efficiency (%)		
		Н	V	Candela	Н	V	Н	V	Н	V	Beam	Field	Total
	PR021 - SN - H070T6 - RL	1	1	265179	0°	0°	5.1°	5.1°	11.6°	11.6°	15.92%	38.54%	61.13%
	PR021 - SM - H070T6 - RL	3	3	18056	0°	0°	19.8°	19.8°	42.3°	42.3°	16.22%	38.93%	45.50%
	PR021 - SN - H150T6 - RL	2	2	191436	0°	0°	8.4°	8.4°	19.1°	19.1°	15.06%	36.88%	50.37%
	PR021 - SM - H150T6 - RL	3	3	46760	0°	0°	18.0°	18.0°	39.4°	39.4°	19.12%	41.09%	47.55%
	PR021 - SM - H100 - RL	5	5	11146	0°	0°	36.8°	36.8°	80.5°	80.5°	31.73%	69.79%	78.16%
	PR021 - SN - H070T6	1	1	301668	0°	0°	5.1°	5.1°	11.8°	11.8°	17.93%	43.84%	77.30%
	PR021 - SM - H070T6	4	4	19955	0°	0°	22.4°	22.4°	47.9°	47.9°	24.77%	52.99%	70.66%
	PR021 - FM - H070T6	5	5	7649	0°	0°	33.8°	33.8°	76.4°	76.4°	21.67%	49.16%	63.54%

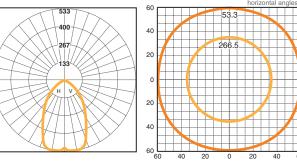
Additional photometry available at www.selux.com/usa

PR022

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Selux Catalog #	NEI Distrib	MA oution	Max	Candela	l	Beam (50			Angle 1%)	Ef	fficiency (%	.)
	Н	V	Candela	Н	V	Н	V	Н	V	Beam	Field	Total
PR022 - SN - H250ET - RL	1	1	375260	0°	0°	5.8°	8.2°	15.2°	17.9°	21.82%	44.69%	65.40%
PR022 - SN - H400ET - RL	1	1	947840	0°	0°	5.8°	5.8°	16.1°	16.1°	12.07%	48.98%	71.37%
PR022 - SM - H400ET - RL	3	3	128512	0°	0°	17.0°	17.0°	36.5°	36.5°	19.42%	41.93%	53.56%
PR022 - SN - H1000 - RL	2	2	680000	0°	0°	9.2°	8.1°	28.9°	24.2°	14.70%	49.00%	76.41%
PR022 - SN - H250ET	1	1	567620	0°	0°	5.6°	5.5°	16.7°	15.4°	11.59%	46.14%	80.67%
PR022 - FN - H400	4	4	103424	0°	0°	21.0°	21.0°	47.6°	47.6°	24.31%	53.79%	89.33%
PR022 - SN - H400ET	1	1	1029440	0°	0°	6.0°	6.0°	16.8°	16.8°	21.44%	59.59%	99.86%
PR022 - SM - H400ET	3	3	146944	0°	0°	19.1°	19.1°	43.4°	43.4°	26.68%	65.31%	95.73%
PR022 - FM - H400ET	5	5	51296	0°	0°	31.9°	31.9°	74.7°	74.7°	26.66%	64.15%	87.70%
PR022 - SN - H1000	2	2	880000	0°	0°	6.7°	5.9°	26.1°	21.3°	11.64%	45.61%	76.62%
PR022 - VN - H1000	4	2	211920	0°	0°	39.1°	9.8°	65.9°	28.1°	21.09%	53.08%	75.11%
PR022 - SN - S400ET - RL	2	2	523904	0°	0°	6.1°	6.1°	18.8°	18.8°	11.30%	35.71%	57.45%
PR022 - SM - S400ET - RL	3	3	128512	0°	0°	17.0°	17.0°	36.5°	36.5°	19.42%	41.93%	53.56%
PR022 - SN - S600 - RL	2	2	586800	0°	0°	6.3°	6.3°	23.9°	23.9°	4.36%	19.22%	37.61%
PR022 - SM - S600 - RL	4	4	171990	0°	0°	18.6°	18.6°	47.4°	47.4°	10.99%	29.31%	39.29%
PR022 - SN - S600	2	2	776070	0°	0°	6.3°	7.0°	21.8°	24.9°	5.72%	25.53%	69.26%
PR022 - SM - S600	4	4	194490	0°	0°	21.3°	21.3°	56.7°	56.7°	16.07%	46.71%	66.93%

PR020-SW-1F18



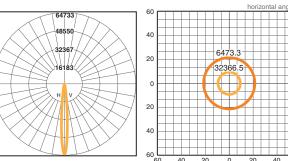
Maximum Candela = 533 located at: horizontal angle = -11° vertical angle = -3°

H - horizontal axial candela V - vertical axial candela

Beam Angles (50% max. candela = 266.5) H = 68.9° V = 65.9° Field Angles

(10% max. candela = 53.3) H = 119.1° V = 117.8° NEMA Class 6H x 6V

PR020-SN-H070T6-RL



Maximum Candela = 64733 located at: horizontal angle = 0° vertical angle = 0°

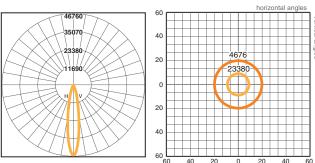
H - horizontal axial candela V - vertical axial candela

PR021-SM-H100-RL

Beam Angles (50% max. candela = 32366.5) H = 9.5° V = 9.5°

Field Angles (10% max. candela = 6473.3) H = 21.2° V = 21.2° NEMA Class 2H x 2V

PR021-SM-H150T6-RL



Maximum Candela = 46760 located at: horizontal angle = 0° vertical angle = 0°

H - horizontal axial candela V - vertical axial candela

PR022-SN-H400ET-RI

Maximum Candela = 947840

H - horizontal axial candela

V - vertical axial candela

horizontal angle = 0°

vertical angle = 0°

located at:

Beam Angles (50% max. candela = 23380) H = 18° V = 18° Field Angles (10% max. candela = 4676) H = 39.4° V = 39.4° NEMA Class 3H x 3V

Beam Angles

Field Angles

(50% max. candela = 473920) H = 5.8° V = 5.8°

(10% max. candela = 94784) H = 16.1° V = 16.1°

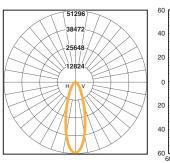
NEMA Class 1H x 1V

Maximum Candela = 11146 located at:

horizontal angle = 0° vertical angle = 0° H - horizontal axial candela V - vertical axial candela

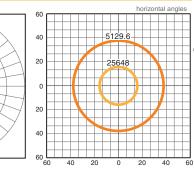
Beam Angles (50% max. candela = 5573) H = 36.8° V = 36.8° Field Angles (10% max. candela = 1114.6) H = 80.5° V = 80.5° NEMA Class 5H x 5V

PR022-FM-H400ET



Maximum Candela = 51296 located at: horizontal angle = 0° vertical angle = 0°

H - horizontal axial candela V - vertical axial candela



Beam Angles (50% max. candela = 25648) H = 31.9° V = 31.9° Field Angles (10% max. candela = 5129.6) H = 74.7° V = 74.7°

NEMA Class 5H x 5V

Additional photometry available at www.selux.com/usa

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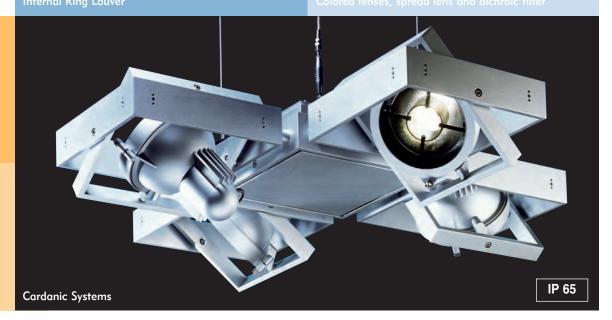








Accessories



Accessories

PRO Series floodlights can be supplied with lens, louver and shielding accessories to further enhance light ouput properties. Available lenses include clear, diffuse and spread lens (supplied standard as per specified beam pattern), and optionally available colored lens in red, green, blue and yellow, and dichroic filters. The unique design internal ring louver is available for increased shielding of narrow beam patterns. For applications when floodlight must be oriented up, the flush glass option is available for preventing water and dust accumulation on fixture lens.



Cardanic Systems

Cardanic systems give complete flexibility allowing multiple fixtures to be mounted together with each fixture aimed in any direction. This unique and comprehensive system is available for the PR020 and PR021 in both suspended modular and pole mounted configurations. These modules can be individually tailored to create different lighting effects depending on the architectural or lighting requirements. See following pages for more details.

> Please see Cardanic Systems color brochure for more details **CLICK HERE for LINK TO Cardanic color brochure PDF**

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Cardanic Systems





Combination Examples



For specification assistance contact customer service.

Please see Cardanic Systems color brochure for more details CLICK HERE for LINK TO Cardanic color brochure PDF

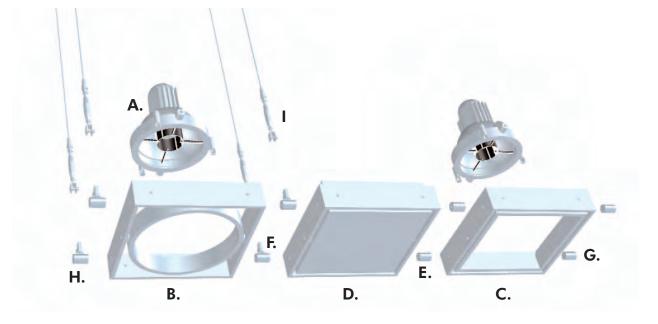




PRO Series Cardanic System Module Ordering

PRO Series Cardanic System Modules are available for the PR020 and PR021 fixtures. Following is a summary of system ordering part numbers. Please contact customer service for assistance in configuring and ordering Cardanic System Module parts.

A.	PR020/PR021+K	PR020 Floodlight unit fitted for gimbal mounting
B.	PR020/PR021 101 00	Circular adjustable frame
C.	PR020/PR021 102 00	Square adjustable frame
D.	PR020/PR021 130	Frame with up to four electronic ballasts (up to 150MH)
E.	PR020/PR021 110 00	Intermediate connector
F.	PR020/PR021 111 00	Intermediate connector for steel cable mounting
G.	PR020/PR021 115 00	End connector
H.	PR020/PR021 116 00	End connector for steel cable mounting
l.	PR020/PR021 120 00	Cable suspension for surface mounting



Please see Cardanic Systems color brochure for more details CLICK HERE for LINK TO Cardanic color brochure PDF

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Scale 3/8" = 1 foot



Alternate Orientation

Single Tennon Mount - (1)

Mounting





Scale 3/8" = 1 foot PR021-xx-xxxx-xxx-S PR021-xx-xxxx-xxx-S PR021-xx-xxxx-xxx-W PR021-xx-xxxx-xxx-W Alternate Orientation Wall Mount - (W) Stake Mount - (S) PR021-xx-xxxx-xxx-O PR021-xx-xxxx-xxx-Y PR021-xx-xxxx-xxx-Y PR021-xx-xxxx-xxx-0 Alternate Orientation Outrigger Mount - (O) Yoke Mount - (Y) PR021-xx-xxxx-xxx-1 PR021-xx-xxxx-xxx-1 PR021-xx-xxxx-xxx-B PR021-xx-xxxx-xxx-B

For additional mounting details see spec sheet.

Alternate Orientation

Bracket Mount - (B)

Alternate Orientation

Alternate Orientation

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PRO Series

PR022 SN SV H250 830 S Lamp Type/ Wattage Fixture Series Beam Pattern Lamp Color Mounting Finish

Fixture Series	Beam Pattern	Lamp Type/Wattage	Lamp Color
PR022 SILL Projector Floodlight PR022	SN Narrow Spot SM Medium Spot FN Narrow Flood FM Medium Flood HN Horizontal Narrow HM Horizontal Medium	Metal Halide H175ED 175W Mogul Base H250ET 250W ET18 Mogul Base H400ET 400W ET18 Mogul Base H250 250W BT18 Mogul Base H400 400W BT37 Mogul Base H100012 1000W BT37 Mogul Base	830 3000°K NOL Lamp not included
	VN Vertical Narrow VM Vertical Medium	High Pressure Sodium S150ED 150W Mogul Base S250ET 250W ET18 Mogul Base S400ET 400W ET18 Mogul Base S250 250W BT28 E39 Mogul Base S400 400W BT37 E39 Mogul Base S600¹ 600W Mogul Base S1000¹ 1000W Mogul Base	
		Halogen Q250M ²³ 250W T4 E11 mini-can Q500M ²³ 500W T4 E11 mini-can	xx Not Applicable NOL Lamp not included
PR021 SILL Projector Floodlight PR021	SN Narrow Spot SM Medium Spot FN Narrow Flood FM Medium Flood HN Horizontal Narrow	Ceramic Metal Halide H150T6 150W T6 G12 HC050 50W Medium Base HC070 70W Medium Base HC100 100W Medium Base HC150 150W Medium Base	830 3000°K NOL Lamp not included
	HM Horizontal Medium VN Vertical Narrow VM Vertical Medium	Metal HalideH05050W Medium BaseH07070W Medium BaseH100100W Medium BaseH150150W Medium BaseH175175W Medium Base	830 3000°K NOL Lamp not included
		High Pressure Sodium S070 70W Medium Base S100 100W Medium Base S150 150W Medium Base	Not Applicable (ranges from 1900°K) to 2200°K) NOL Lamp not included
		Halogen Q100M ²³ 100W T10 Medium Base Q150M ²³ 150W T10 Medium Base	xxx Not Applicable NOL Lamp not included
	SW Wide Spot FW Wide Flood HW Horizontal Wide WW Vertical Wide	Compact Fluorescent 1F26 26W GX24q-3 1F32 32W GX24q-3 1F42 42W GX24q-4	830 3000°K NOL Lamp not included

120	 FG		DF	 SLR	_	RLX	_
Voltage	Len	s Access	ories			Options	

Fixture Series	Beam Pattern	Lamp Type/Wattage	Lamp Color
PRO20	SN Narrow Spot SM Medium Spot	Ceramic Metal Halide H035T6 35W T6 G12 H070T6 70W T6 G12	830 3000°K NOL Lamp not included
SILL Projector Floodlight PRO20	FN Narrow Flood FM Medium Flood HN Horizontal Narrow HM Horizontal Medium VN Vertical Narrow VM Vertical Medium	Quartz Halogen Q0354 35W QT GY6.35 12V Q0504 50W QT GY6.35 12V Q0754 75W QT GY6.35 12V Q0904 90W QT GY6.35 12V	xx Not Applicable NOL Lamp not included
	SW Wide Spot FW Wide Flood HW Horizontal Wide VW Vertical Wide	Compact Fluorescent 1F13 13W GX24q-1 1F18 18W GX24q-2	830 3000°K NOL Lamp not included
	SP 10° Spot WS 12° Spot FL 25° Spot WF 60° Wide Flood	Halogen 060PAR38 ^{2,3} 60W PAR38 080PAR38 ^{2,3} 80W PAR38 120PAR38 ^{2,3} 120W PAR38	xx Not Applicable NOL Lamp not included
	SP 15° Spot FL 25° Spot WF 60° Wide Flood	Ceramic Metal Halide 070PAR38 70W PAR38 100PAR38 100W PAR38	830 3000°K NOL Lamp not included

Mounting	Finish		Lens Accessories	Options		
S Stake Mount W Wall Mount B Bracket Mount (for side bracket mounting to Ø 5" to Ø 10" poles) Single Pole Top Double Pole Top Triple Pole Top Quad Pole Top Y Yoke Mount (for remote ballast and halogen lamps only) O Outrigger Mount	WH White BK Black BZ Bronze SV Silver SP Specify RAL	12V ^{2,5} 120 277 347	FG Flush Glass LR Colored Red LG Colored Green LB Colored Blue LY Colored Yellow RL Ring Louver Internal DF Dichroic Filter (consult factory for details)	RB Remote Ballast for "Y" Mounting Only RLX Ring Louver External S18 Snoot 180° S36 Snoot 360° WG Wire Guard SLR Field Rotatable Spread Lens NOTE: RLX, S18, S36 and WG options may not be combined with each other. Consult factory if other shielding required.		

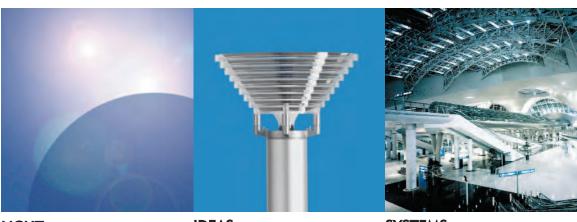
¹requires "RB" (Remote Ballast) ²supplied with "Y" mounting only ³120V only ⁴not available in 347V

5020 Quartz Halogen only

¹requires "RB" (Remote Ballast)

²supplied with "Y" mounting only

3120V only



LIGHT

Artificial light is perhaps the most fundamental requirement of modern civilization. For over fifty years, SELUX has been a leader in the development of advanced lighting products that have helped transform light from a mundane necessity into a vital, vibrant architectural and design element.

IDEAS

As multinational companies SELUX and SILL call upon the talents of engineers and designers in both the US and Europe to deliver the most innovative concepts in lighting design. And in our New York facility, we back up this global perspective with the strength of American technology and manufacturing capability.

SYSTEMS

At SELUX we believe in a systems approach. Each design features a variety of mounting configurations and reflector options. This systemoriented flexibility allows for a tremendous variety of visual and photometric effects.



SELUX Corporation

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A COMMITMENT TO SERVICE

SELUX is committed to the highest standard of customer service. Our engineers will preview and check preliminary layouts and design parameters and suggest various configurations supported by detailed mechanical and photometric specifications. Our customer service specialists will assist you in ordering and expediting your order every step of the way until delivery.



6-49142-00 02/07