

		62 x 62 & 80 x 80 mm LED Ring Lights	70 mm High-Intensity LED Ring Lights	62 x 62 & 80 x 80 mm LED Area Lights	70 mm High-Intensity LED Area Lights	70 x 70 & 85 x 220 mm LED Backlights		
Page		386	386	388	388	390		
Color (wavelength)	Red	630 nm	625 nm	62 x 62 mm: 630 nm 80 x 80 mm: 660 nm	625 nm	660 nm		
	White	5500 K	5500 K	5500 K	5500 K	—		
	Blue	464 - 475 nm	470 nm	62 x 62 mm: 464-475 nm 80 x 80 mm: 470 nm	470 nm	—		
	Green	520 - 540 nm	530 nm	62 x 62 mm: 520-540 nm 80 x 80 mm: 525 nm	530 nm	—		
	Infrared	940 nm	850 nm	62 x 62 mm: 940 nm 80 x 80 mm: 850 nm	850 nm	940 nm		
Supply Voltage & Current		Operating Voltage	24V dc ± 10%	24V dc ± 10%	24V dc ± 10%	24V dc ± 10%	24V dc ± 10%	
		Strobe Voltage	5V dc ± 10% @ 10 mA (Active Low)	5 - 24V dc (Active High or Low)	5V dc ± 10% @ 10 mA (Active Low)	5 - 24V dc (Active High or Low)	5V dc ± 10% @ 10 mA (Active Low)	
		Current draw at Full Intensity	Infrared 62 x 62 mm: @ 100 mA max 80 x 80 mm: @ 180 mA max All others 62 x 62 mm: @ 130 mA max 80 x 80 mm: @ 250 mA max	350 mA max	62 x 62 mm: @ 150 mA max 80 x 80 mm: @ 250 mA max 62 x 62 mm: @ 200 mA max 80 x 80 mm: @ 250 mA max	350 mA max	70 x 70 mm: @ 250 mA max 85 x 220 mm: @ 500 mA max	
Construction		Housing	Steel with black zinc plating	Black anodized aluminum	Steel with black zinc plating	Black Anodized Aluminum Nickel-plated aluminum or 316 Stainless Steel	Steel with black zinc plating	
		Window	Clear Acrylic	Clear Diffused Acrylic	Clear Acrylic	Clear Diffused Acrylic Clear Acrylic, Clear Glass or Clear Diffused Acrylic	White Acrylic	
		Rating	IP20; NEMA 1	IP50; NEMA 2	IP40; NEMA 1	IP50; NEMA 2 IP68; NEMA 4X	IP40; NEMA 1	
Connection		Model number suffix	M*	0.3 m 3-pin pigtail Pico QD	0.3 m 3-pin pigtail Pico QD	2 m 3-pin pigtail Pico QD	2 m 3-pin pigtail Pico QD —	2 m 3-pin pigtail Pico QD
			W or Q†	2 m or 9 m 3-conductor attached cable with flying leads	5-pin 0.15 m pigtail Euro QD	2 m or 9 m 3-conductor attached cable with flying leads	0.15 m 5-pin pigtail Euro QD 5-pin Integral Euro QD	2 m or 9 m 3-conductor attached cable with flying leads
Useful Life (LED ON time) Hours (Strobing will increase life)		20,000	50,000	20,000	50,000	20,000		
Operating Temperature		0° to +50° C	0° to +50° C	0° to +50° C	0° to +50° C	0° to +50° C		
Effective Range (at Full Intensity)		Minimum (Clear)	—	—	—	10"	—	
		Maximum (Clear)	—	—	—	10'	—	
		Minimum (Clear Diffuse)	3"	6"	3"	5"	—	
		Maximum (Clear Diffuse)	62 mm: 12" 80 mm: 20"	4'	62 mm: 12" 80 mm: 20"	4'	—	

* Suffix M, W or Q added to model number denotes connection type.

** Clear window model light patterns are slightly more intense and smaller than diffuse models.

† IP68-rated models are only available in lengths of 290 and 580 mm.

75x150, 150x150, 225x150 & 300x150 mm LED Backlights	290, 435, 580, 870 & 1160 mm LED Linear Array Lights†	50 & 100 mm LED On-Axis Lights	150 mm LED Low-Angle Ring Lights	LED Spot Lights	High-Frequency Fluorescent Tubular Lights
390	391	392	392	393	394
633 nm	620-630 nm	630 nm	640 nm	627 nm	—
6500 K	5000-8300 K	5500 K	—	5500 K	4100 K
469 nm	465-485 nm	470 nm	—	470 nm	—
525 nm	520-530 nm	530 nm	—	530 nm	—
850 nm	850 nm	880 nm	880 nm	—	—
24V dc ± 10%	IP50: 24V dc ± 10% IP68: 24V dc ± 10%	24V dc ± 10%	24V dc ± 10%	10-30V dc	24V dc, 110V ac, 220V ac or 120/277V ac
5 - 24V dc (Active High or Low)	5 - 24V dc (Active High or Low)	5V dc ± 10% @ 10 mA (Active Low)	5V dc ± 10% @ 10 mA (Active Low)	5V dc ± 10% @ 10 mA (Low)	—
75 x 150 mm: @ 550 mA 150 x 150 mm: @ 1.1 A 225 x 150 mm: @ 1.65 A 300 x 150 mm: @ 2.2 A	290 mm: @ 1 A max 580 mm: @ 2 A max 870 mm: @ 3 A max 1160 mm: @ 4 A max	500 mA max.	350 mA max 500 mA max	10-30V dc @ 360 mA max	120V ac @ 0.15-0.26 A or 277V ac @ 0.07-0.11 A (Depending on bulb size/wattage)
Valox Plastic	Black Anodized Aluminum Nickel-plated aluminum or 316 Stainless Steel	Black anodized aluminum	Black anodized aluminum	Black anodized aluminum	Acrylic
White Acrylic	Clear Acrylic, Clear Glass or Clear Diffused Acrylic	Optical Glass with anti-reflective coating	—	Glass Lens	Clear Acrylic Tube
IP67, NEMA 6	IP50; NEMA 2 IP68; NEMA 4X	IP40; NEMA 1	IP0; NEMA 0	IP68; NEMA 4X	IP68; NEMA 4X
—	—	0.6 m 3-pin pigtail Pico QD	2 m 3-pin pigtail Pico QD	2 m 3-pin pigtail Pico QD	—
5-pin integral Euro QD	5-pin Integral Euro QD	—	2 m or 9 m 3-conductor attached cable with flying leads	2 m or 9 m 3-conductor attached cable with flying leads	2.5 m attached cable (unterminated or wall plug)
Green, White, Blue: 90,000 Red, Infrared: 100,000	50,000	20,000	20,000	50,000	—
0° to +50° C	0° to +50° C	0° to +50° C	0° to +50° C	0° to +50° C	-18 ° to +40 ° C
—	20" **	—	—	—	—
—	20" **	—	—	—	—
—	10" **	—	—	0"	—
—	7" **	—	—	18"	—

- Photoelectronics Sensors
- Fiber Optic Sensors
- Special Purpose Sensors
- Measurement & Inspection Sensors
- Vision**
- Wireless
- Indicators
- Safety Light Screens
- Safety Laser Scanners
- Fiber Optic Safety Systems
- Safety Controllers & Modules
- Safety Two-Hand Control Modules
- Safety Interlock Switches
- Emergency Stop Devices
- iVu Sensors
- PresensePLUS
- LENSES**
- LIGHTING**
- Ring Lights
- Area Lights
- Backlights
- Linear Array Lights
- On-Axis Lights
- Low-Angle Lights
- Spot Lights
- Highly Diffused Lights
- Tubular Fluorescent Lights
- Structured Lights

Area Lights

An area light provides even illumination in a concentrated area. Well-placed area lights can create shadows and glare, allowing the vision sensor to detect the presence or absence of a feature.

- Creates shadows to detect changes in depth, depending on mounting
- Lights distances greater than 12 inches (high-intensity)



ACCESSORIES
page
395

High-Intensity LED Area Light (IP50) Model Key, 24V dc

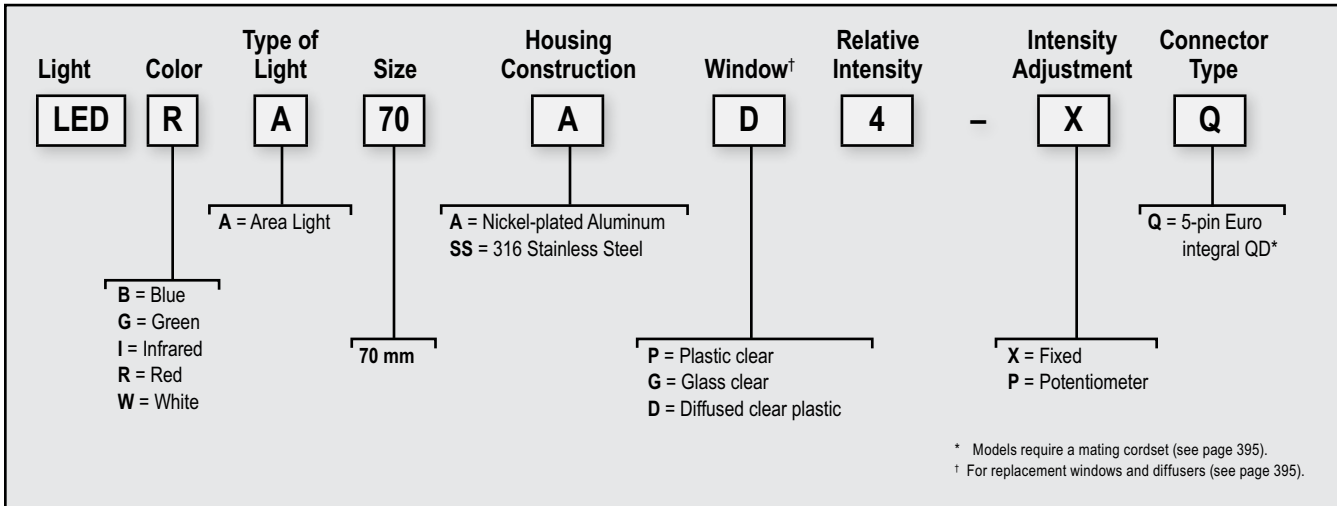


Light	Color	Type of Light	Size	Housing Construction	Window ^{††}	Relative Intensity	Intensity Adjustment	Cable/ Connector
LED	R	A	70	X	D	4	- X	M
	B = Blue G = Green I = Infrared R = Red W = White	A = Area Light	70 mm	X = Non-Sealed	D = Diffused clear plastic		X = Fixed P = Potentiometer	M = 2 m 3-pin Pico Pigtail QD* Q = 0.15 m 5-pin Euro Pigtail QD [†]

* Pico QD model required for P4 sensors.
[†] Models require a mating cordset (see page 395).
^{††} For replacement windows and diffusers (see page 395).



Sealed High-Intensity LED Area Light (IP68) Model Key, 24V dc



- Photoelectrics
- Sensors
- Fiber Optic Sensors
- Special Purpose Sensors
- Measurement & Inspection Sensors

Vision

- Wireless
- Indicators
- Safety Light Screens
- Safety Laser Scanners
- Fiber Optic Safety Systems
- Safety Controllers & Modules
- Safety Two-Hand Control Modules
- Safety Interlock Switches
- Emergency Stop Devices

ACCESSORIES
page 395

LED Area Lights (IP40), 24V dc

Color	Connection	Models†	
		80 x 80 mm	62 x 62 mm
Red	2 m	LEDRA80X80W	LEDRA62X62W
	2 m Threaded 3-pin Pico Pigtail QD	LEDRA80X80M	LEDRA62X62M
White	2 m	LEDWA80X80W	LEDWA62X62W
	2 m Threaded 3-pin Pico Pigtail QD	LEDWA80X80M	LEDWA62X62M
Blue	2 m	LEDBA80X80W	LEDBA62X62W
	2 m Threaded 3-pin Pico Pigtail QD	LEDBA80X80M	LEDBA62X62M
Green	2 m	LEDGA80X80W	LEDGA62X62W
	2 m Threaded 3-pin Pico Pigtail QD	LEDGA80X80M	LEDGA62X62M
Infrared	2 m	LEDIA80X80W	LEDIA62X62W
	2 m Threaded 3-pin Pico Pigtail QD	LEDIA80X80M	LEDIA62X62M



- iVu Sensors
- PresensePLUS
- LENSES
- LIGHTING**
- Ring Lights
- Area Lights**
- Backlights
- Linear Array Lights
- On-Axis Lights
- Low-Angle Lights
- Spot Lights
- Highly Diffused Lights
- Tubular Fluorescent Lights
- Structured Lights

Connection options:

For 9 m cable, add suffix **W30** to the 2 m model number (example, **LEDRA80X80W W30**).
QD models can be connected directly to P4 sensors; splitter cordset available for powering two lights (see page 395).

† For replacement windows and diffusers (see page 395).