



KT-ALED290HV-L1-X-NM-8XX-VDIM

LED AREA LIGHT FIXTURES

DESCRIPTION

Compact 290W High-Performance LED Area Light | High-Voltage | 277–480V Input | Bronze Housing | Multiple Mounting, Optics, and Control options

APPLICATION

Pole-mount or structure-mount outdoor illumination needs (including parking lots, auto dealerships, pathways, roadways, recreational venues, and other general area lighting requirements)



PRODUCT FEATURES

- Compact, low-profile design delivers high-performance illumination and improves application site aesthetics
- Heavy-duty, die-cast aluminum housing with ample heat sinking for enhanced thermal performance
- True U0 design for Dark Sky compliant performance eliminates undesirable sky glow
- Integrated NEMA/ANSI C136.10 3-pin twist-lock receptacle with shorting cap, standard on all fixtures, simplifies ordering requirements for photo control needs
- Precision-crafted optics, available with type II, III, IV, and V patterns, to meet diverse requirements from general purpose to specification-grade applications
- Integral latch design for hassle-free, hinged access to driver compartment
- Four contractor-friendly mounting options available (sold separately): slip fitter mount, adjustable pole mount for square and round poles, fixed pole mount for square and round poles, and trunnion mount
- Bi-level occupancy sensors and twist-lock photocell accessories available
- Reversible glare shield available, suitable for backside (house-side) or frontside (street-side) shielding
- Powered by Keystone 0–10V dimming LED driver featuring 12V AUX power tap, 6kV surge protection
- Ambient operating temperature: –40°C/–40°F to 50°C/122°F
- UL Certified for wet locations, IP65
- 0–10V dimming, 10% min
- Power factor: >0.95
- THD: <20%
- LED chip lifetime: L70 >100,000 hrs @ 25°C/77°F ambient fixture temp
- Meets FCC Part 15, Part B, Class A standards for conducted and radiated emissions

ELECTRICAL SPECIFICATIONS

Catalog Number	Wattage	Lumens	Efficacy	Dimming	Color Temp	CRI	Dist Type*	Input Voltage	Rated Life	Legacy Equivalent	Housing Color**	Additional Features
KT-ALED290HV-L1-3-NM-840-VDIM	290W	40,310 lm	139 lm/W	0–10V	4000K	>80	III	277–480V	50,000 hrs	1000W	Bronze	10kV external surge protection included Automatic power disconnect on fixture access door
KT-ALED290HV-L1-3-NM-850-VDIM		40,890 lm	141 lm/W		5000K		III					
KT-ALED290HV-L1-5-NM-840-VDIM		40,600 lm	140 lm/W		4000K		V					
KT-ALED290HV-L1-5-NM-850-VDIM		41,180 lm	142 lm/W		5000K		V					

* Fixtures with Type 2 (II) and Type 4 (IV) optics are available and assembled to order. Lead times may apply. Please see catalog number breakdown for full ordering code details.
 ** Fixtures (and mounts) with alternate housing colors are available and made to order. Extended lead times apply. Please see catalog number breakdown for full ordering code details.

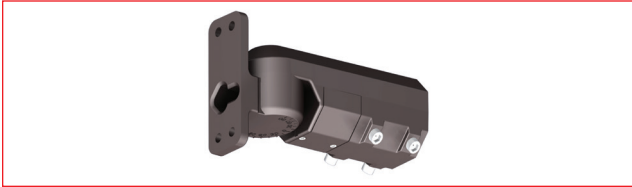
KT-ALED290HV-L1-X-NM-8XX-VDIM
LED AREA LIGHT FIXTURES

MOUNTING BRACKET OPTIONS (SOLD SEPARATELY)

SLIP FITTER MOUNT

Fits 2 3/8" tenon; Bronze

Catalog Number	UPC	Easy Code
KT-ALED-SF-1-KIT	843654131641	JRH-74



ADJUSTABLE POLE MOUNT

For round or square pole; Bronze

Catalog Number	UPC	Easy Code
KT-ALED-PMA-1-KIT	843654131634	DAQ-87



FIXED POLE MOUNT

For round or square pole; Bronze

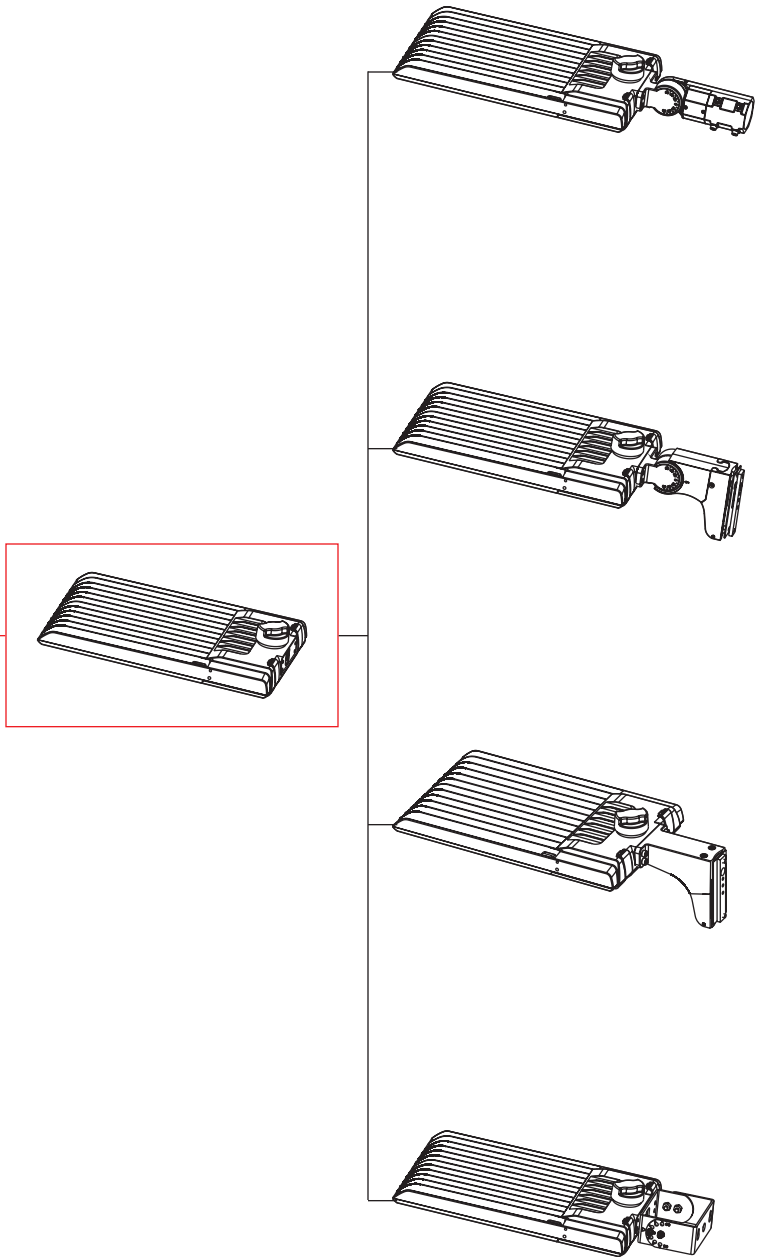
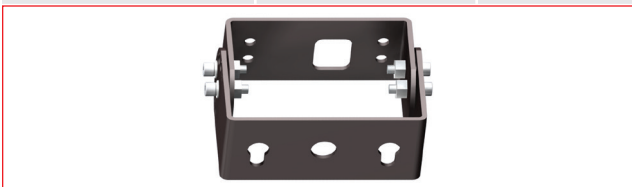
Catalog Number	UPC	Easy Code
KT-ALED-PM-1-KIT	843654131627	QVG-29



TRUNNION MOUNT

Bronze

Catalog Number	UPC	Easy Code
KT-ALED-TM-1-KIT	843654131658	GTH-37





KT-ALED290HV-L1-X-NM-8XX-VDIM

LED AREA LIGHT FIXTURES

PHYSICAL SPECIFICATIONS

LED AREA LIGHT FIXTURE

PACKAGING

Carton Quantity	1 piece
Carton Dimensions	6.1"H x 15.15"W x 27.36"L
Carton Weight	16.31 lbs

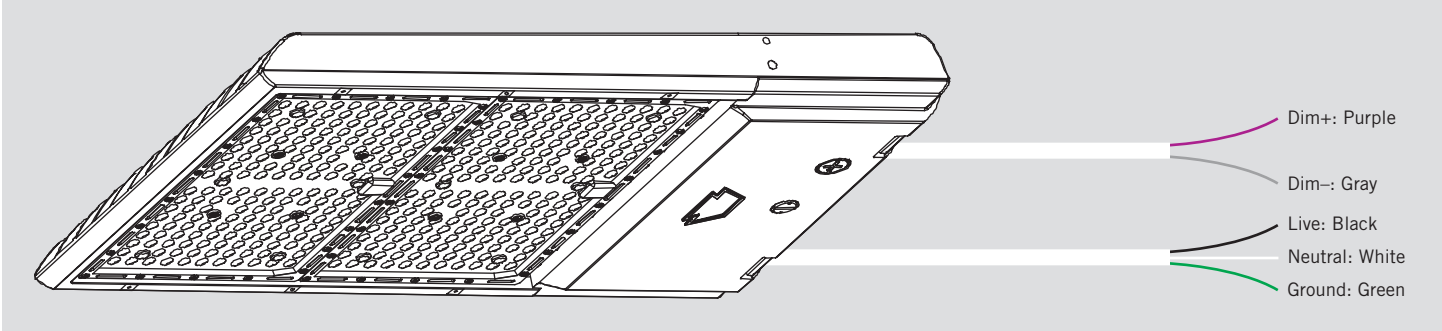
POLE MOUNT (ADJUSTABLE OR FIXED) DRILLING HOLES



XFIT | HIGH-PERFORMANCE LED AREA LIGHTS

KT-ALED290HV-L1-X-NM-8XX-VDIM LED AREA LIGHT FIXTURES

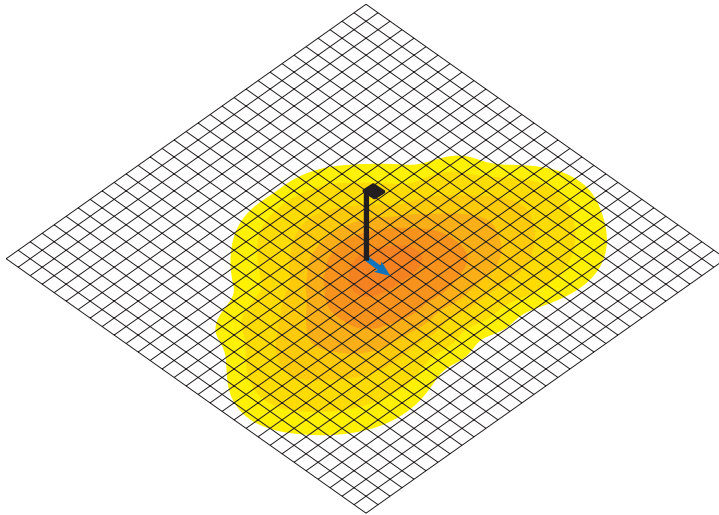
WIRING DIAGRAM



LIGHT DISTRIBUTION PATTERN

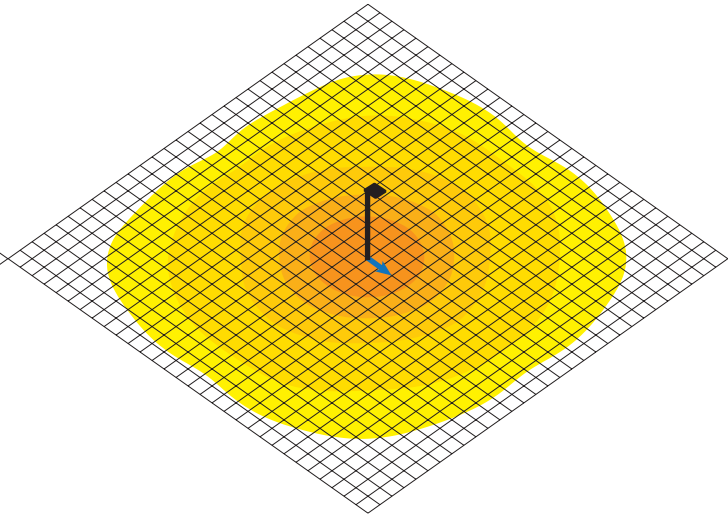
TYPE 3 (III)

Pole-mount view from above; Area light mounted at 35'

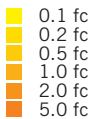


TYPE 5 (V)

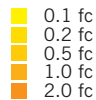
Pole-mount view from above; Area light mounted at 35'



- Photometric layout for general reference only
- Grid dimension: 10 x 10 sq ft



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- Grid dimension: 10 x 10 sq ft



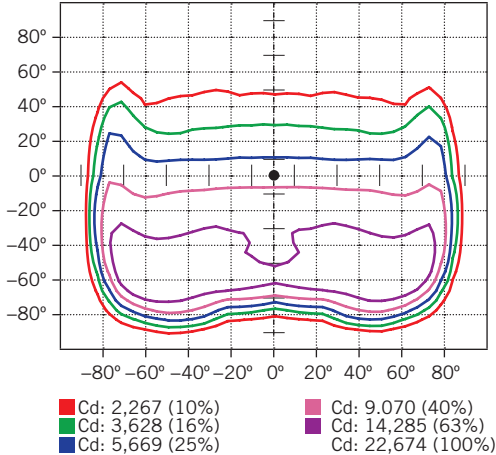


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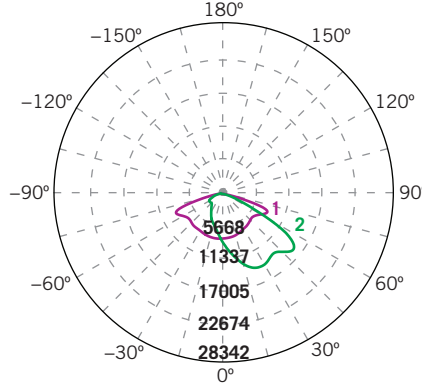
LED AREA LIGHT FIXTURES

PHOTOMETRIC SPECIFICATIONS (TYPE 3 [III])

ISOCANDELA PLOT



LUMINOUS INTENSITY DISTRIBUTION



Average diffuse angle (50%): **106.9°**

1 Violet C0-C180

2 Green C90-C270

Unit: cd

FLUX DISTRIBUTION

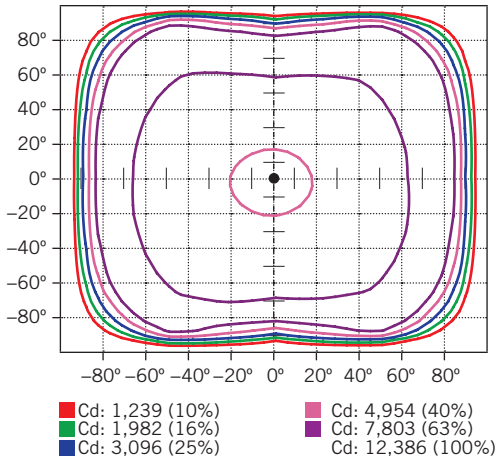
Zone	Lumens	% Luminaire
Forward Light	32,314 lm	79.9%
0°-30°	4,530 lm	11.2%
30°-60°	15,899 lm	39.3%
60°-80°	11,196 lm	27.7%
80°-90°	689 lm	1.7%
Back Light	8,143 lm	20.1%
0°-30°	2,219 lm	5.5%
30°-60°	3,754 lm	9.3%
60°-80°	2,016 lm	5.0%
80°-90°	153 lm	0.4%
Up Light	0 lm	0.0%
90°-100°	0 lm	0.0%
100°-180°	0 lm	0.0%

BUG* Rating	
Asymmetrical Luminaire Types	
Type I, II, III, IV	B3 U0 G4
Quadrilateral Symmetrical Luminaire Types	
Type V, Area Light	B3 U0 G4

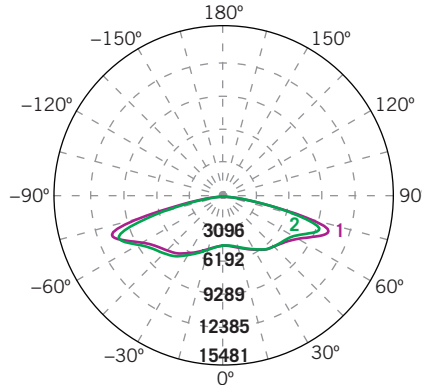
* Backlight, Uplight, Glare

PHOTOMETRIC SPECIFICATIONS (TYPE 5 [V])

ISOCANDELA PLOT



LUMINOUS INTENSITY DISTRIBUTION



Average diffuse angle (50%): **155.4°**

1 Violet C0-C180

2 Green C90-C270

Unit: cd

FLUX DISTRIBUTION

Zone	Lumens	% Luminaire
Forward Light	20,131 lm	49.0%
0°-30°	2,125 lm	5.2%
30°-60°	7,503 lm	18.3%
60°-80°	8,830 lm	21.5%
80°-90°	1,673 lm	4.1%
Back Light	20,962 lm	50.0%
0°-30°	2,229 lm	5.4%
30°-60°	8,163 lm	19.9%
60°-80°	9,389 lm	22.8%
80°-90°	1,182 lm	2.9%
Up Light	0 lm	0.0%
90°-100°	0 lm	0.0%
100°-180°	0 lm	0.0%

BUG* Rating	
Asymmetrical Luminaire Types	
Type I, II, III, IV	B5 U0 G5
Quadrilateral Symmetrical Luminaire Types	
Type V, Area Light	B5 U0 G5

* Backlight, Uplight, Glare

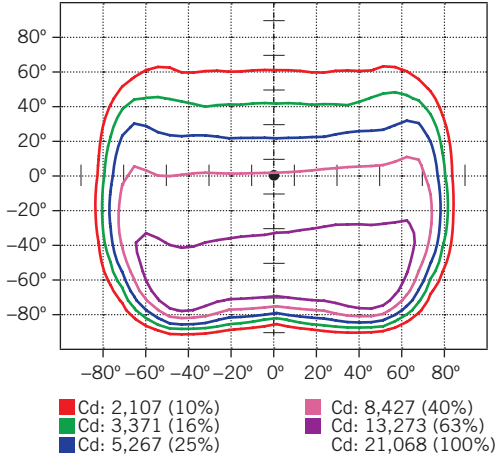


KT-ALED290HV-L1-X-NM-8XX-VDIM

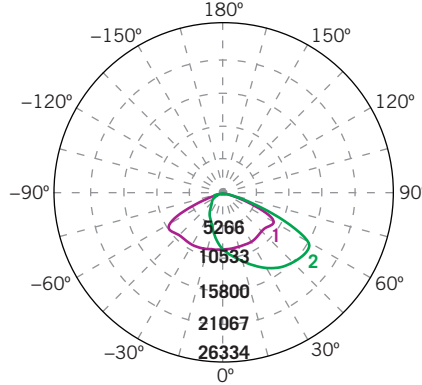
LED AREA LIGHT FIXTURES

PHOTOMETRIC SPECIFICATIONS (TYPE 4 [IV])

ISOCANDELA PLOT



LUMINOUS INTENSITY DISTRIBUTION



Average diffuse angle (50%): **105.3°**

1 Violet C0-C180
2 Green C90-C270

Unit: cd

FLUX DISTRIBUTION

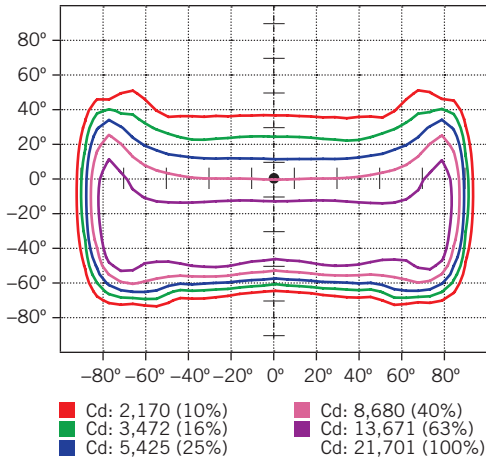
Zone	Lumens	% Luminaire
Forward Light	31,012 lm	75.6%
0°-30°	4,463 lm	10.9%
30°-60°	15,461 lm	37.7%
60°-80°	10,510 lm	25.6%
80°-90°	578 lm	1.4%
Back Light	10,008 lm	24.4%
0°-30°	2,733 lm	6.7%
30°-60°	4,949 lm	12.1%
60°-80°	2,097 lm	5.1%
80°-90°	229 lm	0.6%
Up Light	0 lm	0.0%
90°-100°	0 lm	0.0%
100°-180°	0 lm	0.0%

BUG* Rating	
Asymmetrical Luminaire Types	
Type I, II, III, IV	B4 U0 G4
Quadrilateral Symmetrical Luminaire Types	
Type V, Area Light	B4 U0 G4

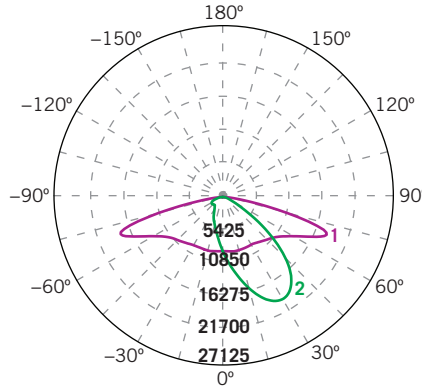
* Backlight, Uplight, Glare

PHOTOMETRIC SPECIFICATIONS (TYPE 2 [III])

ISOCANDELA PLOT



LUMINOUS INTENSITY DISTRIBUTION



Average diffuse angle (50%): **104.0°**

1 Violet C0-C180
2 Green C90-C270

Unit: cd

FLUX DISTRIBUTION

Zone	Lumens	% Luminaire
Forward Light	31,568 lm	77.5%
0°-30°	5,819 lm	14.3%
30°-60°	17,649 lm	43.3%
60°-80°	7,632 lm	18.7%
80°-90°	468 lm	1.1%
Back Light	9,181 lm	22.5%
0°-30°	2,337 lm	5.7%
30°-60°	3,918 lm	9.6%
60°-80°	2,720 lm	6.7%
80°-90°	206 lm	0.5%
Up Light	0 lm	0.0%
90°-100°	0 lm	0.0%
100°-180°	0 lm	0.0%

BUG* Rating	
Asymmetrical Luminaire Types	
Type I, II, III, IV	B4 U0 G4
Quadrilateral Symmetrical Luminaire Types	
Type V, Area Light	B4 U0 G4

* Backlight, Uplight, Glare















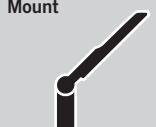

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LED AREA LIGHT FIXTURES

EPA SPECIFICATIONS

Large-Size Fixture Housing

Conditions: Horizontal winds only for calculations. Worst case total projected area used for calculations. All drag coefficients are set as worst case 1.2. For details on exact EPA calculations and assumptions, please contact productsupport@keystonetech.com

EPA Calcs (1.2*ft^2 View)		Single Fixture	2 Fixtures at 90°	2 Fixtures at 180°	3 Fixtures at 90°	3 Fixtures at 120°	4 Fixtures at 90°	2 Fixtures Side-by-Side	3 Fixtures Side-by-Side	4 Fixtures Side-by-Side
Mounting Application	Fixture Position									
Adjustable Pole Mount 	Horizontal	0.62 sq. ft.	0.90 sq. ft.	1.24 sq. ft.	1.42 sq. ft.	1.48 sq. ft.	1.42 sq. ft.	0.74 sq. ft.	1.11 sq. ft.	1.48 sq. ft.
Adjustable Pole Mount 	45°	1.85 sq. ft.	2.43 sq. ft.	1.85 sq. ft.	3.01 sq. ft.	4.42 sq. ft.	3.01 sq. ft.	3.70 sq. ft.	5.55 sq. ft.	7.40 sq. ft.
Slip Fitter Mount 	Horizontal	0.60 sq. ft.	0.98 sq. ft.	1.20 sq. ft.	1.53 sq. ft.	1.57 sq. ft.	1.53 sq. ft.	0.86 sq. ft.	1.30 sq. ft.	1.73 sq. ft.
Slip Fitter Mount 	45°	1.92 sq. ft.	2.51 sq. ft.	1.92 sq. ft.	3.09 sq. ft.	4.39 sq. ft.	3.09 sq. ft.	3.84 sq. ft.	5.76 sq. ft.	7.68 sq. ft.
Slip Fitter Mount 	Vertical	2.59 sq. ft.	3.19 sq. ft.	2.59 sq. ft.	3.80 sq. ft.	4.07 sq. ft.	3.80 sq. ft.	5.18 sq. ft.	7.77 sq. ft.	10.35 sq. ft.



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LED AREA LIGHT FIXTURES

ACCESSORIES (SOLD SEPARATELY)

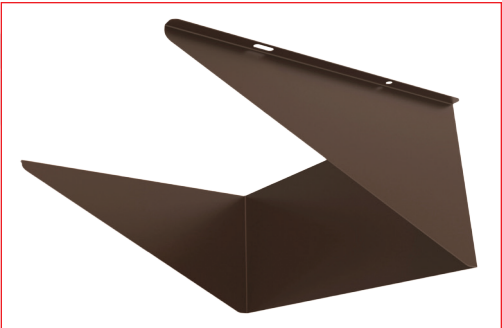
TWIST-LOCK AREA LIGHT CONTROL

Catalog Number	Description	UPC	Easy Code
KT-TLP-HV-3PN	NEMA Type Twist-Lock 3-Pin Photocell 277-480V, 1800VA Max; Yellow Housing	843654131832	CGF-01



GLARE SHIELD

Catalog Number	Description	UPC	Easy Code
KT-ALED-GS-L1-KIT	Reversible Glare Shield Kit; Large (fits "L1" fixture bodies); Bronze Housing	843654131818	LAI-36



MICROWAVE OCCUPANCY SENSOR

Catalog Number	Description	UPC	Easy Code
KTS-MW3-12V-PKO	12V Microwave Occupancy Sensor	843654130637	TRM-32



REMOTE CONTROL

Catalog Number	Description	UPC	Easy Code
KTS-MW3-REMOTECONTROL	Remote Control for KTS-MW3-12V-XX Sensors, Sets/adjusts all sensor performance parameters	843654132020	XSR-61





KT-ALED290HV-L1-X-NM-8XX-VDIM

LED AREA LIGHT FIXTURES

ORDERING INFORMATION

ORDER CODE	PACK QTY.	UPC	Easy Code
KT-ALED290HV-L1-3-NM-840-VDIM	1	843654131566	UJY-50
KT-ALED290HV-L1-3-NM-850-VDIM	1	843654131573	AGJ-21
KT-ALED290HV-L1-5-NM-840-VDIM	1	843654131580	KXL-30
KT-ALED290HV-L1-5-NM-850-VDIM	1	843654131597	YAI-28

CATALOG NUMBER BREAKDOWN

KT-ALED290HV-L1-X-NM-8XX-VDIM

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14

<p>1 Keystone Technologies</p> <p>2 Fixture Type</p> <p>3 LED Technology</p> <p>4 Wattage</p> <p>5 High Voltage</p> <p>6 Size/Shape</p> <p>7 Style/Design Designation</p> <p>8 Distribution Type</p> <p>9 Mounting</p> <p>10 CRI</p> <p>11 Color Temp</p> <p>12 Dimming</p> <p>13 Housing Color</p> <p>14 Options</p>	<p>2 Fixture Type</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 30px;">A</td> <td>Area Light</td> </tr> </table> <p>8 Distribution Type</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 30px;">2</td> <td>Type 2 (II)</td> </tr> <tr> <td>3</td> <td>Type 3 (III)</td> </tr> <tr> <td>4</td> <td>Type 4 (IV)</td> </tr> <tr> <td>5</td> <td>Type 5 (V)</td> </tr> </table> <p>12 Dimming</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 30px;">VDIM</td> <td>0-10V</td> </tr> </table>	A	Area Light	2	Type 2 (II)	3	Type 3 (III)	4	Type 4 (IV)	5	Type 5 (V)	VDIM	0-10V	<p>6 Size/Shape</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 30px;">L</td> <td>Large</td> </tr> </table> <p>9 Mounting</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 30px;">NM</td> <td>No Mounting</td> </tr> </table> <p>13 Housing Color</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 30px;">Blank</td> <td>Bronze</td> </tr> <tr> <td>B</td> <td>Black</td> </tr> <tr> <td>W</td> <td>White</td> </tr> </table>	L	Large	NM	No Mounting	Blank	Bronze	B	Black	W	White	<p>7 Style/Design Designation</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 30px;">1</td> <td>Series 1</td> </tr> </table> <p>10 CRI</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 30px;">8</td> <td>>80</td> </tr> </table> <p>11 Color Temp</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 30px;">40</td> <td>4000K</td> </tr> <tr> <td>50</td> <td>5000K</td> </tr> </table> <p>14 Options</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 30px;">Blank</td> <td>No Options</td> </tr> <tr> <td>/7PRS</td> <td>7-Pin Receptacle and Shorting Cap installed</td> </tr> <tr> <td>/MW3</td> <td>Factory-installed Microwave Sensor</td> </tr> </table>	1	Series 1	8	>80	40	4000K	50	5000K	Blank	No Options	/7PRS	7-Pin Receptacle and Shorting Cap installed	/MW3	Factory-installed Microwave Sensor
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