



# KT-ALEDXXX-X2-OSA-NM-8XX-VDIM

## LED AREA LIGHT FIXTURES

### DESCRIPTION

Area Light with Optic Swap | 120-277V 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

- Innovative optic swap capability under door frame and latch design for quick, tool-free lens change
- Two lenses in the box: Type III installed, Type V included
- Type II and Type IV lenses sold separately. See below for details
- Heavy-duty, die-cast aluminum housing with ample heat sinking
- Low-profile design delivers high-performance illumination and improves application site aesthetics
- True U0 design for dark sky friendly performance that 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
- Five contractor-friendly mounting options available: slipfitter, trunnion, adjustable pole mount, fixed pole mount, and wall adaptor. Sold separately (*see Accessories for details*)
- Keystone 0-10V dimming driver
- Ambient operating temperature: -40°C/-40°F to 50°C/122°F
- UL Certified; IP65 rated
- Power factor: > 0.95
- THD: < 20%
- LED chip lifetime: L70 > 100,000 hrs @ 25°C/77°F ambient fixture temperature
- Meets FCC Part 15, Part B, Class A standards for conducted and radiated emissions

### PERFORMANCE SPECIFICATIONS

Catalog No.	Wattage	CCT	Lumens	Efficacy	Input Voltage	Dimming	CRI	Distribution Pattern*	Photocell Included	Housing Color**	Legacy Equivalent
KT-ALED70-S2-OSA-NM-840-VDIM	70W	4000K	10,810	154 lm/W	120-277V	0-10V	> 80	Type III Installed, Type V Included	No	Bronze	250W MH
KT-ALED70-S2-OSA-NM-850-VDIM		5000K									320W MH
KT-ALED100-S2-OSA-NM-840-VDIM	100W	4000K	14,850	149 lm/W							400W MH
KT-ALED100-S2-OSA-NM-850-VDIM		5000K									
KT-ALED140-M2-OSA-NM-840-VDIM	140W	4000K	20,920	149 lm/W							1000W MH
KT-ALED140-M2-OSA-NM-850-VDIM		5000K									
KT-ALED210-L2-OSA-NM-840-VDIM	210W	4000K	31,710	151 lm/W							750W MH
KT-ALED210-L2-OSA-NM-850-VDIM		5000K									
KT-ALED290-L2-OSA-NM-840-VDIM	290W	4000K	42,420	146 lm/W							1000W MH
KT-ALED290-L2-OSA-NM-850-VDIM		5000K									

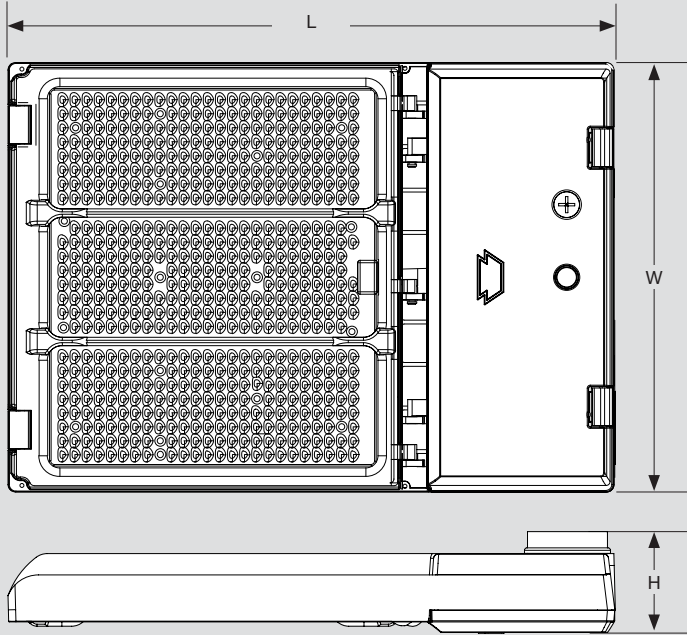
\* For more information, see Accessories page below or contact Keystone with questions.  
 \*\* Fixtures and mounts with alternate housing colors are available and made to order. Extended lead times apply. Please see catalog number breakdown for full ordering code details.

# KT-ALEDXXX-X2-OSA-NM-8XX-VDIM

## LED AREA LIGHT FIXTURES

### PHYSICAL SPECIFICATIONS

#### LED AREA LIGHT FIXTURE



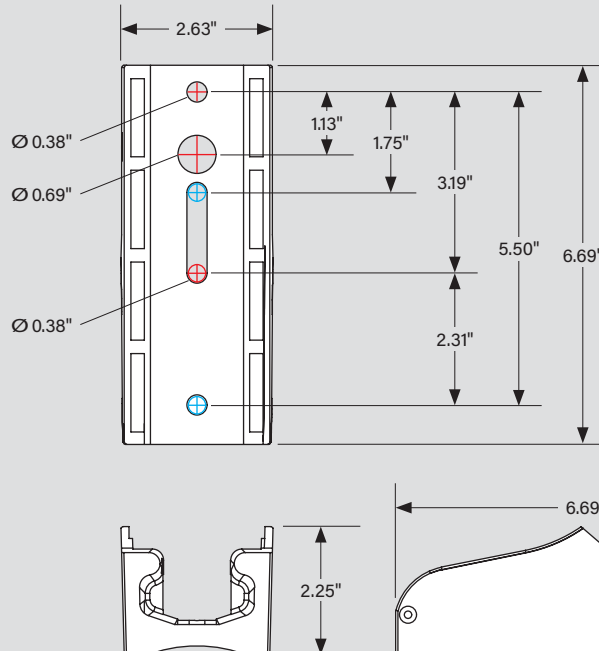
#### FIXTURE DIMENSIONS

Catalog Number	L (Length)	W (Width)	H (Height)
KT-ALED70-S2-OSA-NM-8XX-VDIM KT-ALED100-S2-OSA-NM-8XX-VDIM	14.13"	9.61"	3.30"
KT-ALED140-M2-OSA-NM-8XX-VDIM	15.70"	11.18"	3.30"
KT-ALED210-L2-OSA-NM-8XX-VDIM KT-ALED290-L2-OSA-NM-8XX-VDIM	19.72"	13.97"	3.30"

#### PACKAGING DIMENSIONS

Catalog Number	Carton Dimensions	Carton Weight
KT-ALED70-S2-OSA-NM-8XX-VDIM KT-ALED100-S2-OSA-NM-8XX-VDIM	5.63" x 11.58" x 20.08"	9.71 lbs
KT-ALED140-M2-OSA-NM-8XX-VDIM	5.63" x 13.15" x 21.65"	12.35 lbs
KT-ALED210-L2-OSA-NM-8XX-VDIM KT-ALED290-L2-OSA-NM-8XX-VDIM	5.63" x 15.95" x 26.18"	17.53 lbs

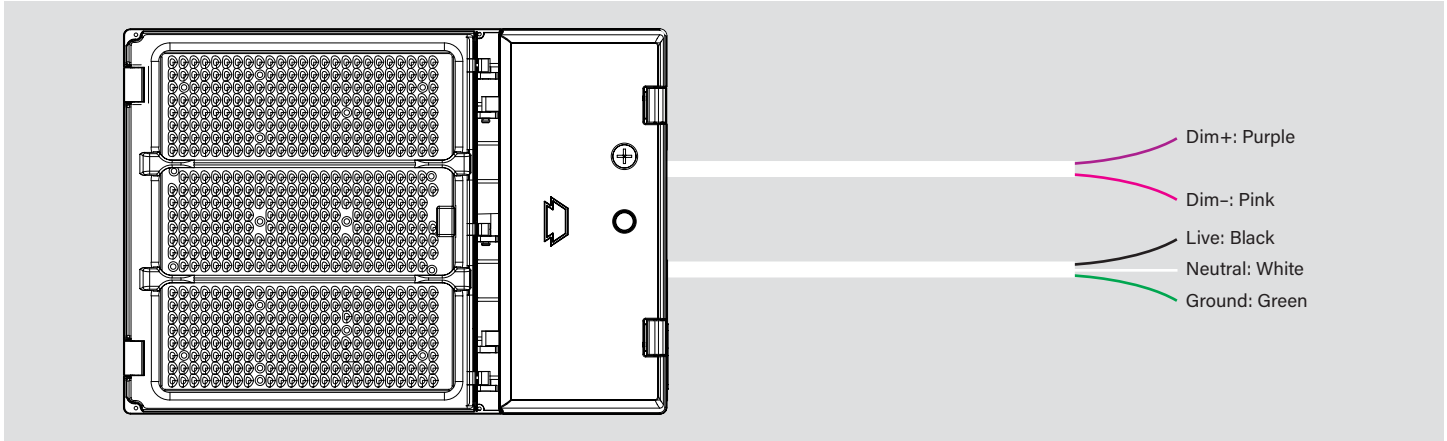
#### POLE MOUNT (ADJUSTABLE OR FIXED) DRILLING HOLES



# KT-ALEDXXX-X2-OSA-NM-8XX-VDIM

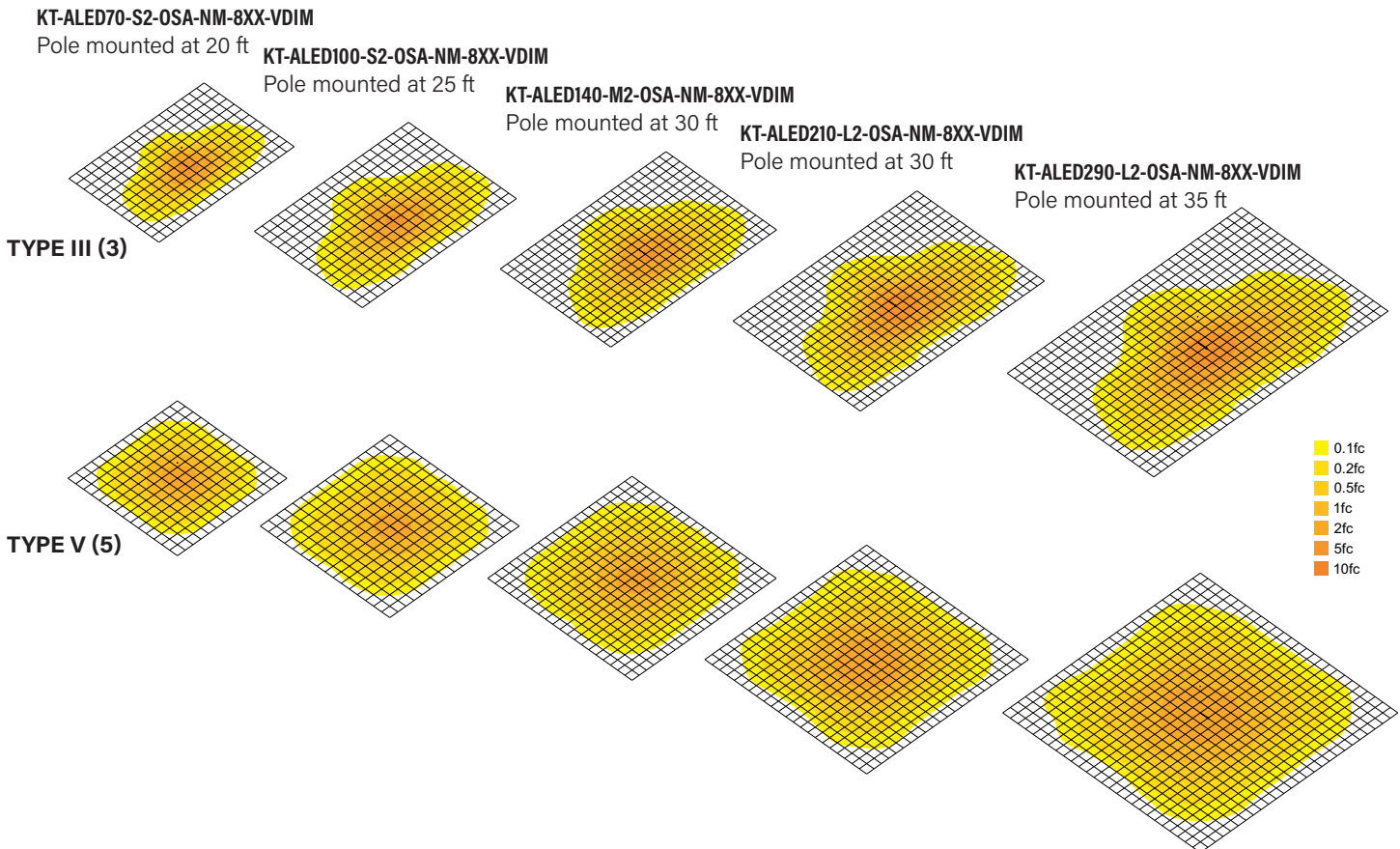
## LED AREA LIGHT FIXTURES

### WIRING DIAGRAM



### LIGHT DISTRIBUTION PATTERN

Pole mount view from above. Each square is 10 ft x 10 ft



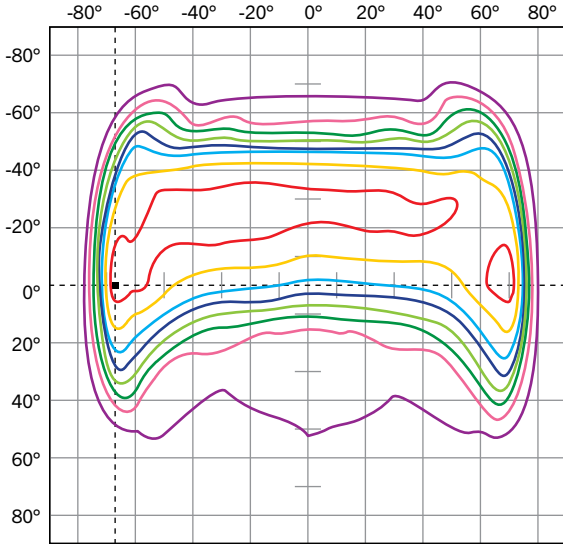


# KT-ALEDXXX-X2-OSA-NM-8XX-VDIM

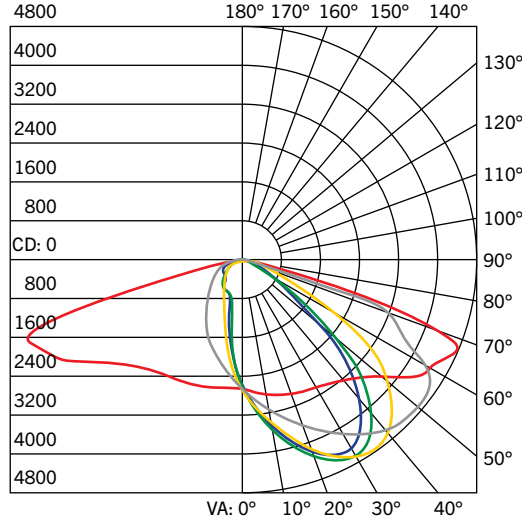
## LED AREA LIGHT FIXTURES

### PHOTOMETRIC SPECIFICATIONS (TYPE II [2]) KT-ALED70-S2-OSA-NM-8XX-VDIM

#### ISOCANDELA PLOT



#### POLAR CANDELA DISTRIBUTION

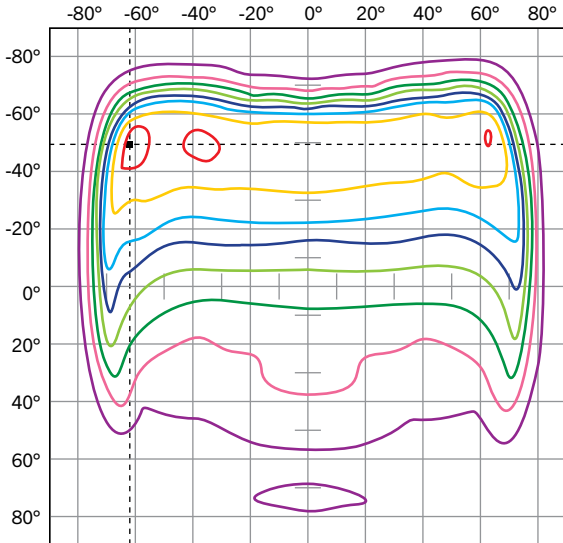


#### FLUX DISTRIBUTION

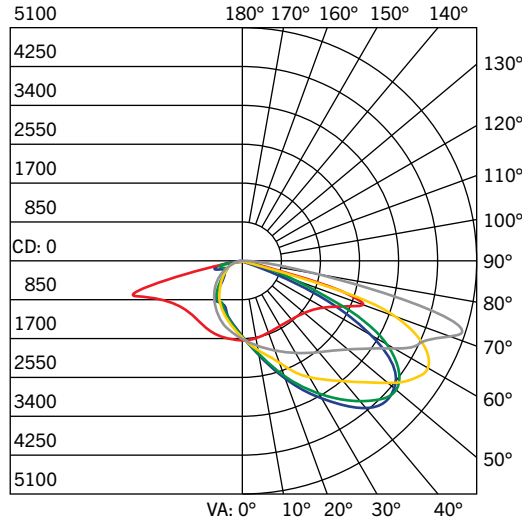
Zone	Lumens	% Luminaire
<b>Forward Light</b>		
0°-30°	1595.3	16.4%
30°-60°	4082.6	42.1%
60°-80°	1425.9	14.7%
80°-90°	38.0	0.4%
<b>Back Light</b>		
0°-30°	625.6	6.4%
30°-60°	1160.5	12.0%
60°-80°	741.6	7.6%
80°-90°	32.1	0.3%
<b>Up Light</b>		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
<b>Total</b>	<b>9701.6</b>	<b>100.0%</b>
<b>BUG Rating</b>	<b>B2-U0-G2</b>	

### PHOTOMETRIC SPECIFICATIONS (TYPE III [3]) KT-ALED70-S2-OSA-NM-8XX-VDIM

#### ISOCANDELA PLOT



#### POLAR CANDELA DISTRIBUTION



#### FLUX DISTRIBUTION

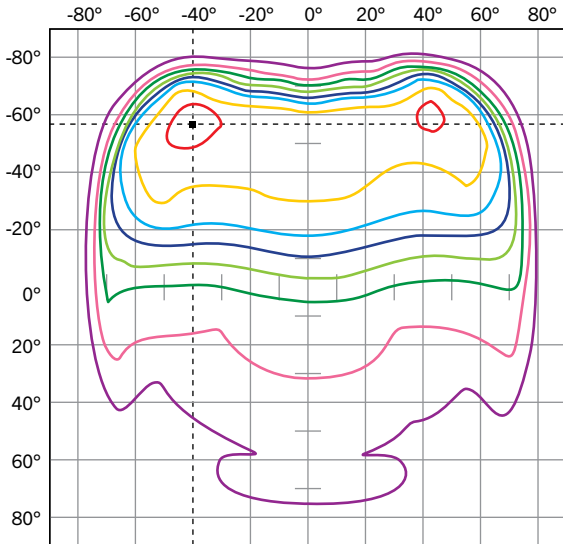
Zone	Lumens	% Luminaire
<b>Forward Light</b>		
0°-30°	993.3	10.2%
30°-60°	3899.2	39.9%
60°-80°	2569.2	26.3%
80°-90°	137.0	1.4%
<b>Back Light</b>		
0°-30°	548.8	5.6%
30°-60°	1003.7	10.3%
60°-80°	584.5	6.0%
80°-90°	45.4	0.5%
<b>Up Light</b>		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
<b>Total</b>	<b>9781.1</b>	<b>100.0%</b>
<b>BUG Rating</b>	<b>B2-U0-G2</b>	

# KT-ALEDXXX-X2-OSA-NM-8XX-VDIM

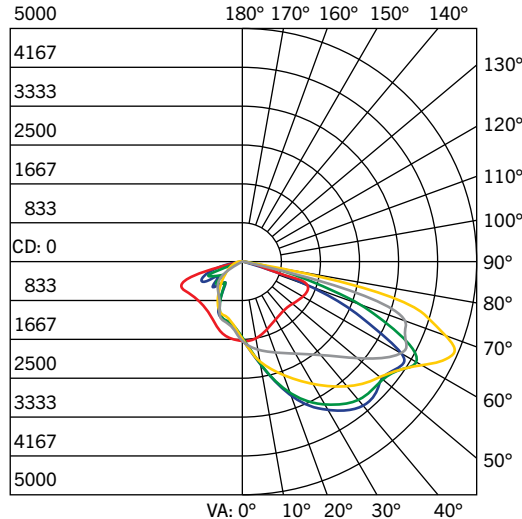
## LED AREA LIGHT FIXTURES

### PHOTOMETRIC SPECIFICATIONS (TYPE IV [4]) KT-ALED70-S2-OSA-NM-8XX-VDIM

#### ISOCANDELA PLOT



#### POLAR CANDELA DISTRIBUTION



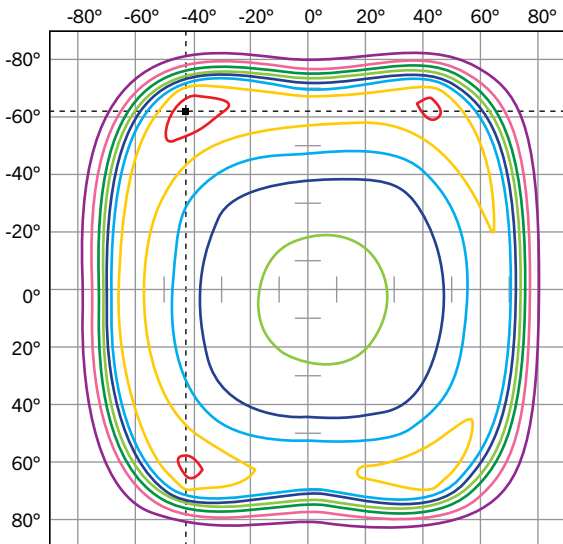
■ : 0° H   ■ : 22.5° H   ■ : 67.5° H  
■ : 90° H   ■ : 45° H

#### FLUX DISTRIBUTION

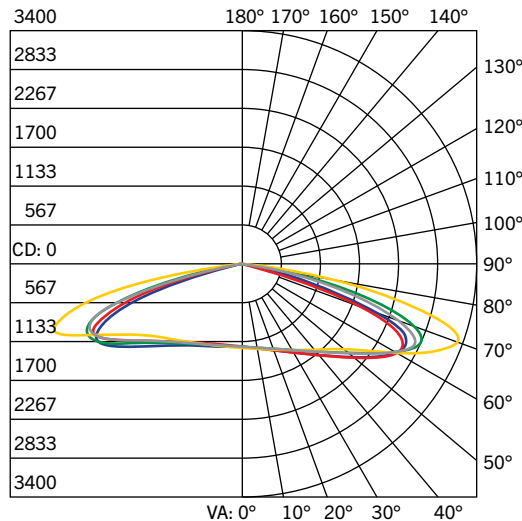
Zone	Lumens	% Luminaire
<b>Forward Light</b>		
0°-30°	1030.8	10.6%
30°-60°	3736.7	38.3%
60°-80°	2871.9	29.4%
80°-90°	127.2	1.3%
<b>Back Light</b>		
0°-30°	533.3	5.5%
30°-60°	903.8	9.3%
60°-80°	525.5	5.4%
80°-90°	29.3	0.3%
<b>Up Light</b>		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
<b>Total</b>	<b>9758.2</b>	<b>100.0%</b>
<b>BUG Rating</b>	<b>B2-U0-G2</b>	

### PHOTOMETRIC SPECIFICATIONS (TYPE V [5]) KT-ALED70-S2-OSA-NM-8XX-VDIM

#### ISOCANDELA PLOT



#### POLAR CANDELA DISTRIBUTION



■ : 0° H   ■ : 22.5° H   ■ : 67.5° H  
■ : 90° H   ■ : 45° H

#### FLUX DISTRIBUTION

Zone	Lumens	% Luminaire
<b>Forward Light</b>		
0°-30°	556.8	5.7%
30°-60°	2140.6	22.0%
60°-80°	2217.3	22.8%
80°-90°	113.3	1.2%
<b>Back Light</b>		
0°-30°	541.7	5.6%
30°-60°	2021.6	20.7%
60°-80°	2054.5	21.1%
80°-90°	99.3	1.0%
<b>Up Light</b>		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
<b>Total</b>	<b>9745.1</b>	<b>100.0%</b>
<b>BUG Rating</b>	<b>B3-U0-G2</b>	



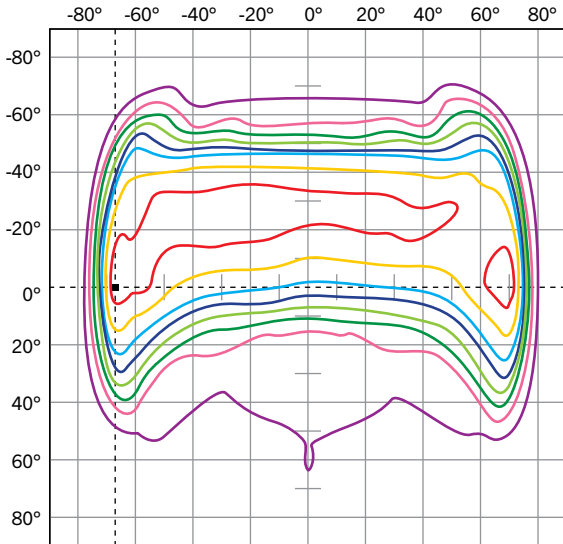


# KT-ALEDXXX-X2-OSA-NM-8XX-VDIM

## LED AREA LIGHT FIXTURES

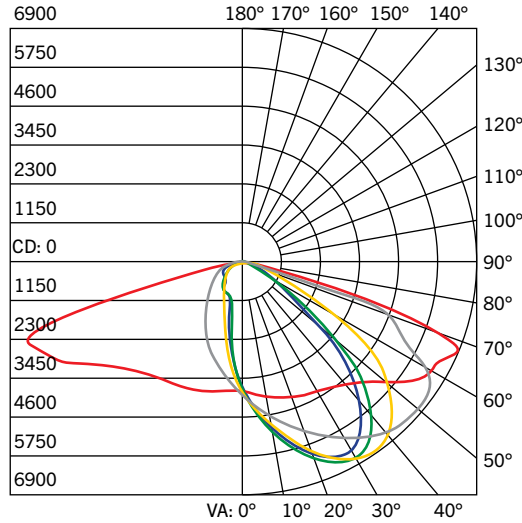
### PHOTOMETRIC SPECIFICATIONS (TYPE II [2]) KT-ALED100-S2-OSA-NM-8XX-VDIM

#### ISOCANDELA PLOT



- Point of Max Cd: 6866.3
- Cd: 6150, 90%
- Cd: 5125, 75%
- Cd: 4100, 60%
- Cd: 3417, 50%
- Cd: 2733, 40%
- Cd: 2050, 30%
- Cd: 1367, 20%
- Cd: 683, 10%

#### POLAR CANDELA DISTRIBUTION



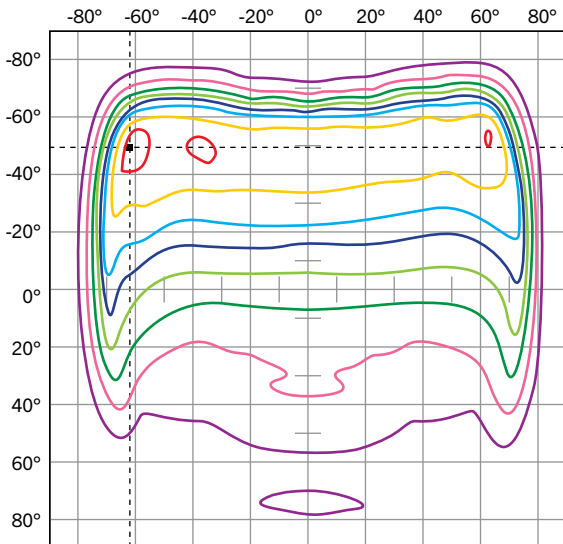
- : 0° H
- : 22.5° H
- : 67.5° H
- : 90° H
- : 45° H

#### FLUX DISTRIBUTION

Zone	Lumens	% Luminaire
<b>Forward Light</b>		
0°-30°	2309.9	16.5%
30°-60°	5871.3	42.0%
60°-80°	2038.0	14.6%
80°-90°	54.6	0.4%
<b>Back Light</b>		
0°-30°	910.7	6.5%
30°-60°	1692.3	12.1%
60°-80°	1071.6	7.7%
80°-90°	46.9	0.3%
<b>Up Light</b>		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
<b>Total</b>	<b>13995.3</b>	<b>100.0%</b>
<b>BUG Rating</b>	<b>B3-U0-G3</b>	

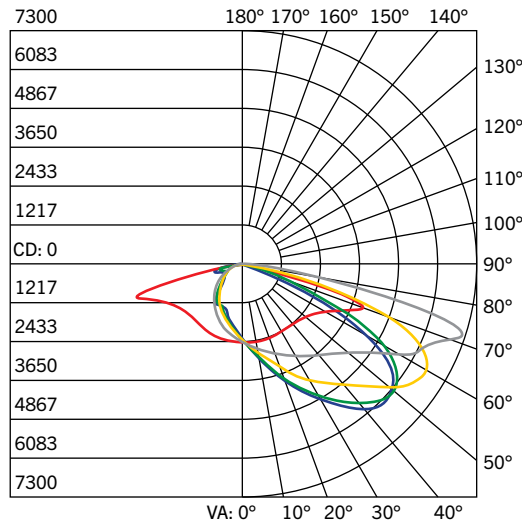
### PHOTOMETRIC SPECIFICATIONS (TYPE III [3]) KT-ALED100-S2-OSA-NM-8XX-VDIM

#### ISOCANDELA PLOT



- Point of Max Cd: 7254.7
- Cd: 6384, 90%
- Cd: 5320, 75%
- Cd: 4256, 60%
- Cd: 3547, 50%
- Cd: 2837, 40%
- Cd: 2128, 30%
- Cd: 1419, 20%
- Cd: 709, 10%

#### POLAR CANDELA DISTRIBUTION



- : 0° H
- : 22.5° H
- : 67.5° H
- : 90° H
- : 45° H

#### FLUX DISTRIBUTION

Zone	Lumens	% Luminaire
<b>Forward Light</b>		
0°-30°	1415.4	10.2%
30°-60°	5521.2	39.7%
60°-80°	3645.2	26.2%
80°-90°	197.9	1.4%
<b>Back Light</b>		
0°-30°	779.3	5.6%
30°-60°	1426.2	10.3%
60°-80°	835.7	6.0%
80°-90°	70.3	0.5%
<b>Up Light</b>		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
<b>Total</b>	<b>13891.2</b>	<b>100.0%</b>
<b>BUG Rating</b>	<b>B2-U0-G2</b>	

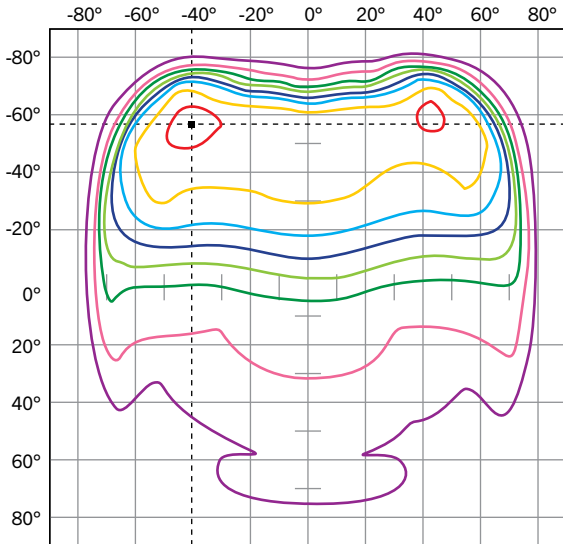


# KT-ALEDXXX-X2-OSA-NM-8XX-VDIM

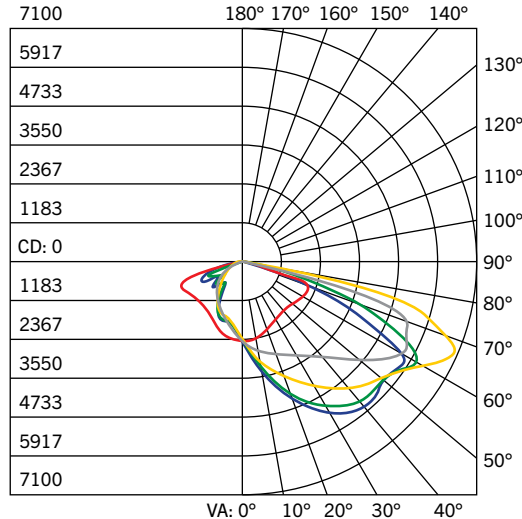
## LED AREA LIGHT FIXTURES

### PHOTOMETRIC SPECIFICATIONS (TYPE IV [4]) KT-ALED100-S2-OSA-NM-8XX-VDIM

#### ISOCANDELA PLOT



#### POLAR CANDELA DISTRIBUTION



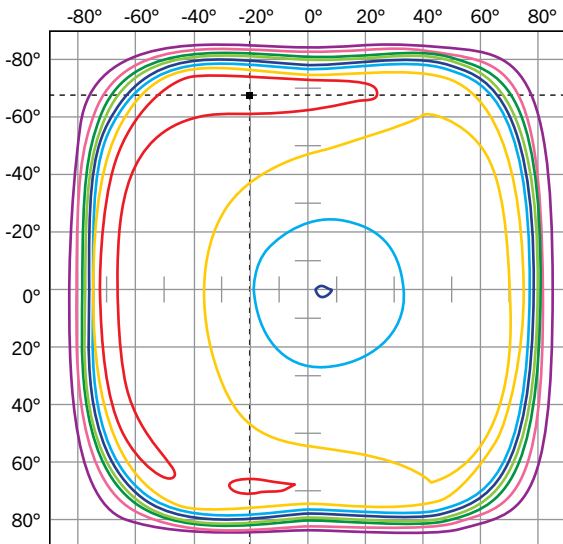
■ : 0° H    ■ : 22.5° H    ■ : 67.5° H  
 ■ : 90° H    ■ : 45° H

#### FLUX DISTRIBUTION

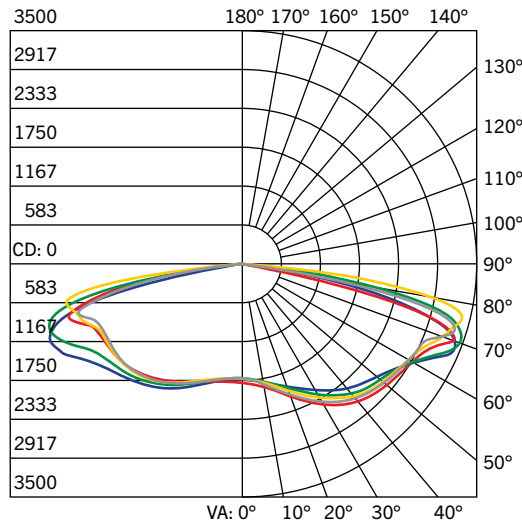
Zone	Lumens	% Luminaire
<b>Forward Light</b>		
0°-30°	1479.6	10.6%
30°-60°	5374.9	38.5%
60°-80°	4088.1	29.3%
80°-90°	176.2	1.3%
<b>Back Light</b>		
0°-30°	761.1	5.4%
30°-60°	1292.7	9.3%
60°-80°	752.5	5.4%
80°-90°	44.1	0.3%
<b>Up Light</b>		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
<b>Total</b>	<b>13969.2</b>	<b>100.0%</b>
<b>BUG Rating</b>	<b>B2-U0-G2</b>	

### PHOTOMETRIC SPECIFICATIONS (TYPE V [5]) KT-ALED100-S2-OSA-NM-8XX-VDIM

#### ISOCANDELA PLOT



#### POLAR CANDELA DISTRIBUTION



■ : 0° H    ■ : 22.5° H    ■ : 67.5° H  
 ■ : 90° H    ■ : 45° H

#### FLUX DISTRIBUTION

Zone	Lumens	% Luminaire
<b>Forward Light</b>		
0°-30°	840.8	6.1%
30°-60°	2898.0	21.0%
60°-80°	2914.5	21.2%
80°-90°	368.2	2.7%
<b>Back Light</b>		
0°-30°	831.8	6.0%
30°-60°	2836.9	20.6%
60°-80°	2777.9	20.2%
80°-90°	300.2	2.2%
<b>Up Light</b>		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
<b>Total</b>	<b>13768.3</b>	<b>100.0%</b>
<b>BUG Rating</b>	<b>B4-U0-G3</b>	

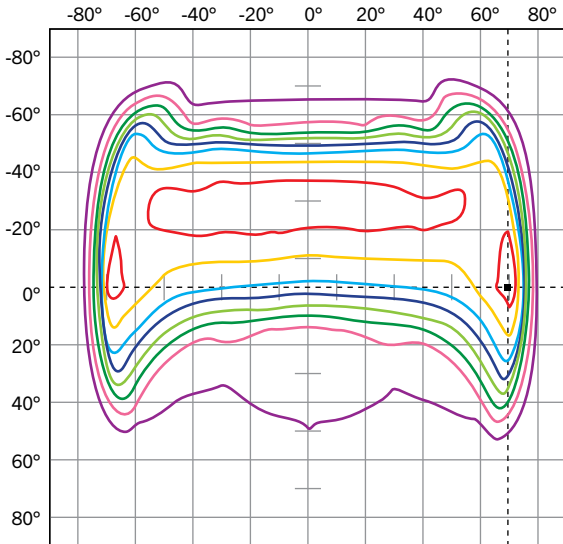


# KT-ALEDXXX-X2-OSA-NM-8XX-VDIM

## LED AREA LIGHT FIXTURES

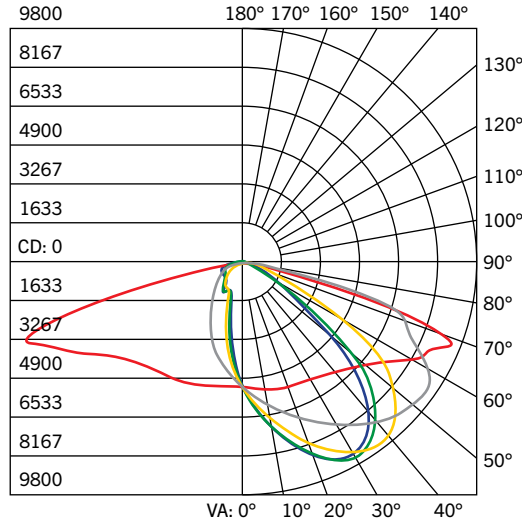
### PHOTOMETRIC SPECIFICATIONS (TYPE II [2]) KT-ALED140-M2-OSA-NM-8XX-VDIM

#### ISOCANDELA PLOT



- Point of Max Cd: 9710.2
- Cd: 8739, 90%
- Cd: 7283, 75%
- Cd: 5826, 60%
- Cd: 4855, 50%
- Cd: 3884, 40%
- Cd: 2913, 30%
- Cd: 1942, 20%
- Cd: 971, 10%

#### POLAR CANDELA DISTRIBUTION



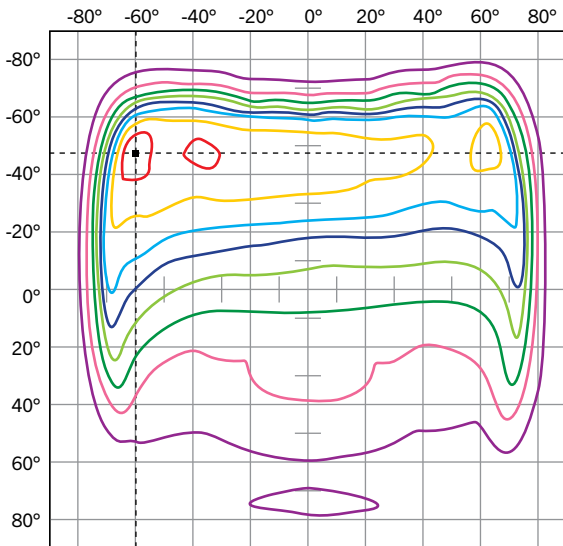
- : 0° H
- : 22.5° H
- : 67.5° H
- : 90° H
- : 45° H

#### FLUX DISTRIBUTION

Zone	Lumens	% Luminaire
<b>Forward Light</b>		
0°-30°	3186.7	16.1%
30°-60°	8489.0	42.9%
60°-80°	3168.5	16.0%
80°-90°	93.8	0.5%
<b>Back Light</b>		
0°-30°	1190.4	6.0%
30°-60°	2131	10.8%
60°-80°	1450.0	7.3%
80°-90°	66.9	0.3%
<b>Up Light</b>		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
<b>Total</b>	<b>19777.0</b>	<b>100.0%</b>
<b>BUG Rating</b>	<b>B3-U0-G3</b>	

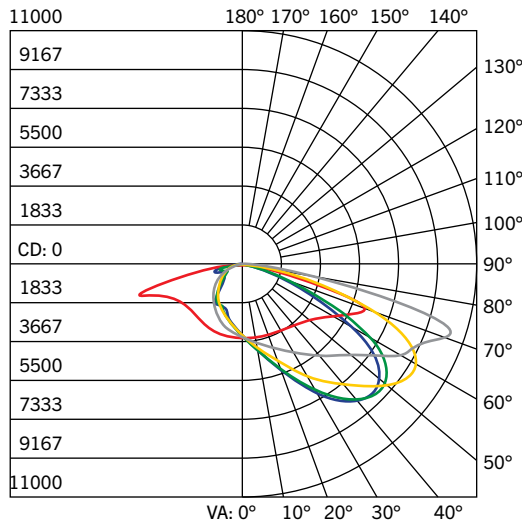
### PHOTOMETRIC SPECIFICATIONS (TYPE III [3]) KT-ALED140-M2-OSA-NM-8XX-VDIM

#### ISOCANDELA PLOT



- Point of Max Cd: 10440.0
- Cd: 9181, 90%
- Cd: 7651, 75%
- Cd: 6121, 60%
- Cd: 5100, 50%
- Cd: 4080, 40%
- Cd: 3060, 30%
- Cd: 2040, 20%
- Cd: 1020, 10%

#### POLAR CANDELA DISTRIBUTION



- : 0° H
- : 22.5° H
- : 67.5° H
- : 90° H
- : 45° H

#### FLUX DISTRIBUTION

Zone	Lumens	% Luminaire
<b>Forward Light</b>		
0°-30°	1987.8	10.0%
30°-60°	7930.7	39.8%
60°-80°	4932.6	24.8%
80°-90°	287.8	1.4%
<b>Back Light</b>		
0°-30°	1155.2	5.8%
30°-60°	2197.3	11.0%
60°-80°	1305.0	6.6%
80°-90°	122.1	0.6%
<b>Up Light</b>		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
<b>Total</b>	<b>19918.5</b>	<b>100.0%</b>
<b>BUG Rating</b>	<b>B3-U0-G3</b>	



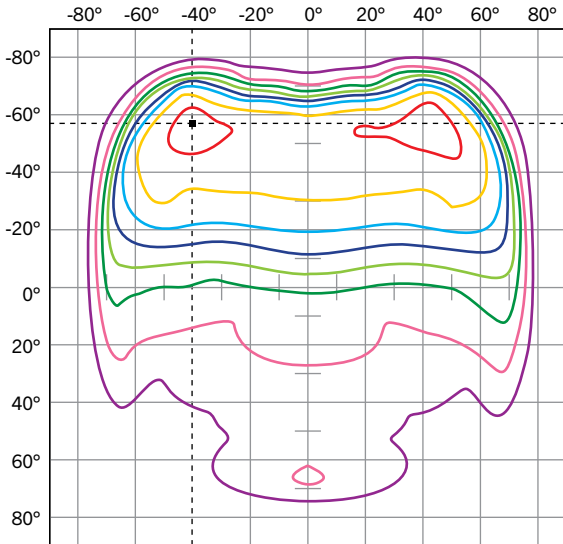


# KT-ALEDXXX-X2-OSA-NM-8XX-VDIM

## LED AREA LIGHT FIXTURES

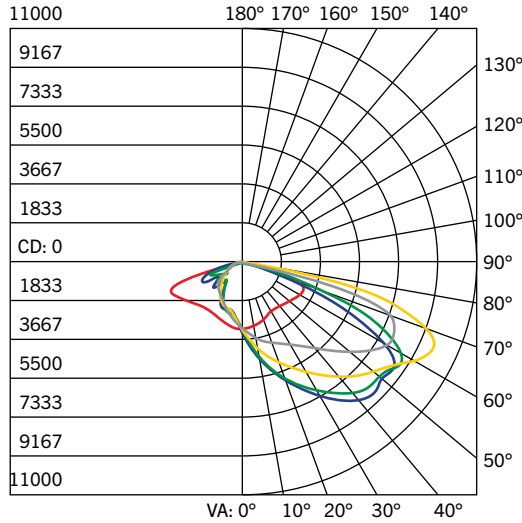
### PHOTOMETRIC SPECIFICATIONS (TYPE IV [4]) KT-ALED140-M2-OSA-NM-8XX-VDIM

#### ISOCANDELA PLOT



- Point of Max Cd: 10056.6
- Cd: 9023, 90%
- Cd: 7519, 75%
- Cd: 6015, 60%
- Cd: 5013, 50%
- Cd: 4010, 40%
- Cd: 3008, 30%
- Cd: 2005, 20%
- Cd: 1003, 10%

#### POLAR CANDELA DISTRIBUTION



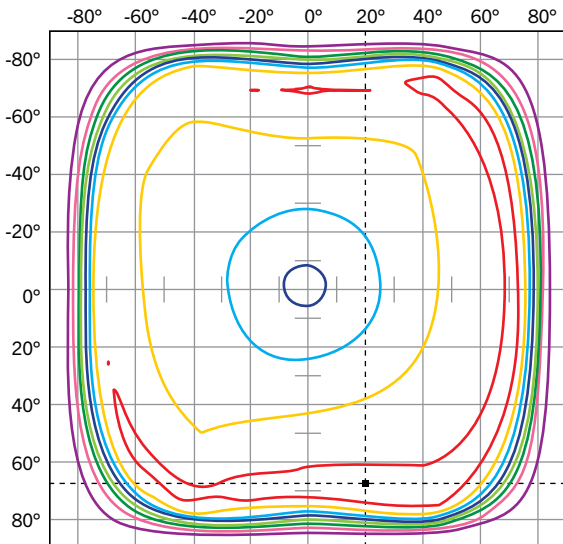
- : 0° H
- : 22.5° H
- : 67.5° H
- : 90° H
- : 45° H

#### FLUX DISTRIBUTION

Zone	Lumens	% Luminaire
<b>Forward Light</b>		
0°-30°	2060.6	10.3%
30°-60°	8129.9	40.7%
60°-80°	5588.9	28.0%
80°-90°	185.5	0.9%
<b>Back Light</b>		
0°-30°	1006.7	5.0%
30°-60°	1807.9	9.1%
60°-80°	1112.2	5.6%
80°-90°	59.6	0.3%
<b>Up Light</b>		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
<b>Total</b>	<b>19951.3</b>	<b>100.0%</b>
<b>BUG Rating</b>	<b>B3-U0-G3</b>	

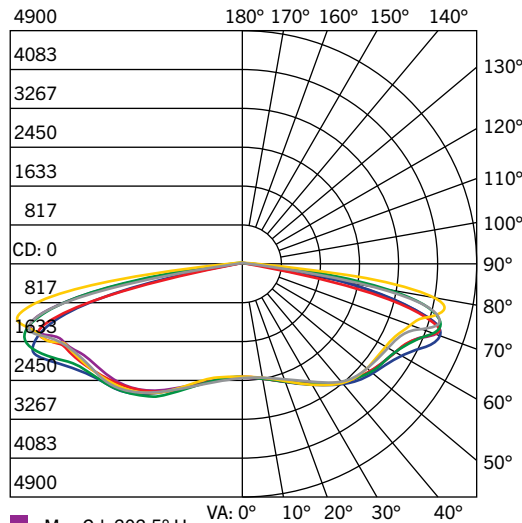
### PHOTOMETRIC SPECIFICATIONS (TYPE V [5]) KT-ALED140-M2-OSA-NM-8XX-VDIM

#### ISOCANDELA PLOT



- Point of Max Cd: 4872.5
- Cd: 4361, 90%
- Cd: 3634, 75%
- Cd: 2907, 60%
- Cd: 2423, 50%
- Cd: 1938, 40%
- Cd: 1454, 30%
- Cd: 969, 20%
- Cd: 485, 10%

#### POLAR CANDELA DISTRIBUTION



- : Max Cd: 202.5° H
- : 0° H
- : 22.5° H
- : 67.5° H
- : 90° H
- : 45° H

#### FLUX DISTRIBUTION

Zone	Lumens	% Luminaire
<b>Forward Light</b>		
0°-30°	1132.6	5.7%
30°-60°	3946.2	20.0%
60°-80°	4046.6	20.5%
80°-90°	584.7	3.0%
<b>Back Light</b>		
0°-30°	1166.4	5.9%
30°-60°	4139.8	20.9%
60°-80°	4238.8	21.4%
80°-90°	522.6	2.6%
<b>Up Light</b>		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
<b>Total</b>	<b>19777.7</b>	<b>100.0%</b>
<b>BUG Rating</b>	<b>B4-U0-G4</b>	

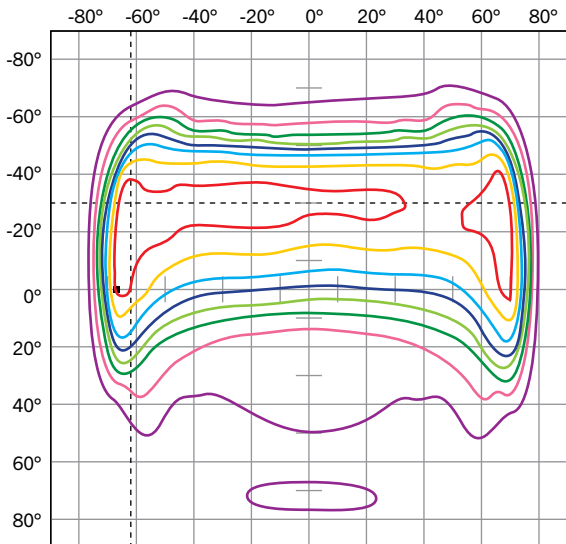


# KT-ALEDXXX-X2-OSA-NM-8XX-VDIM

## LED AREA LIGHT FIXTURES

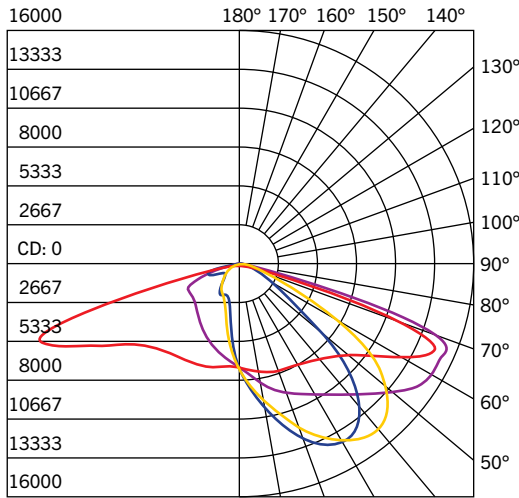
### PHOTOMETRIC SPECIFICATIONS (TYPE II [2]) KT-ALED210-L2-OSA-NM-8XX-VDIM

#### ISOCANDELA PLOT



- Point of Max Cd: 15468.9
- Cd: 13885, 90%
- Cd: 11571, 75%
- Cd: 9257, 60%
- Cd: 7714, 50%
- Cd: 6171, 40%
- Cd: 4628, 30%
- Cd: 3086, 20%
- Cd: 1543, 10%

#### POLAR CANDELA DISTRIBUTION



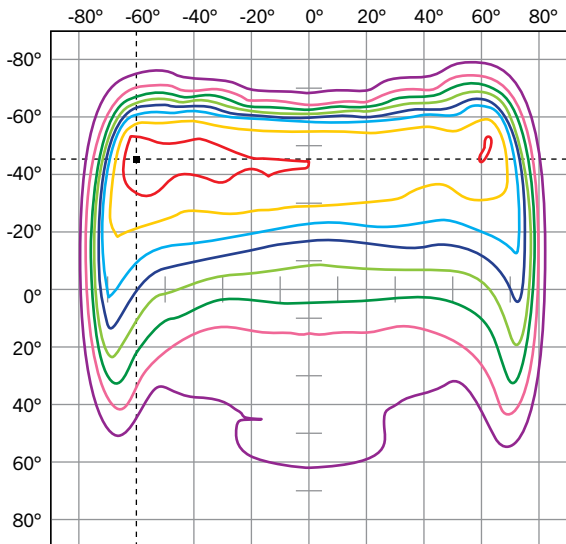
- : Max CD: 75° H
- : 0° H
- : 90° H
- : 45° H

#### FLUX DISTRIBUTION

Zone	Lumens	% Luminaire
<b>Forward Light</b>		
0°-30°	4645.5	15.4%
30°-60°	13102.6	43.4%
60°-80°	5053.1	16.7%
80°-90°	149.1	0.5%
<b>Back Light</b>		
0°-30°	1721.7	5.7%
30°-60°	3222.6	10.7%
60°-80°	2145.9	7.1%
80°-90°	141.3	0.5%
<b>Up Light</b>		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
<b>Total</b>	<b>30181.8</b>	<b>100.0%</b>
<b>BUG Rating</b>	<b>B3-U0-G3</b>	

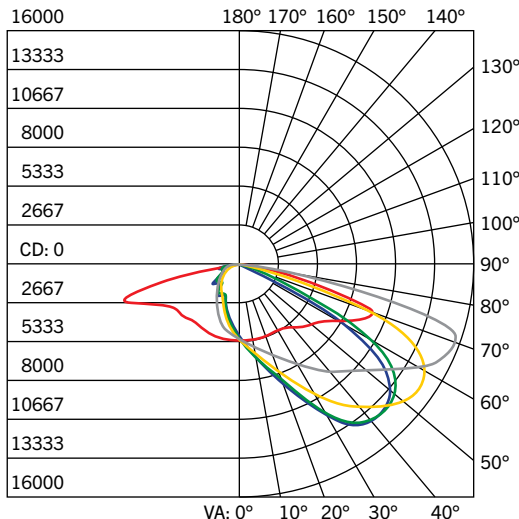
### PHOTOMETRIC SPECIFICATIONS (TYPE III [3]) KT-ALED210-L2-OSA-NM-8XX-VDIM

#### ISOCANDELA PLOT



- Point of Max Cd: 15720.3
- Cd: 14078, 90%
- Cd: 11732, 75%
- Cd: 9385, 60%
- Cd: 7821, 50%
- Cd: 6257, 40%
- Cd: 4693, 30%
- Cd: 3128, 20%
- Cd: 1564, 10%

#### POLAR CANDELA DISTRIBUTION



- : 0° H
- : 90° H
- : 22.5° H
- : 45° H
- : 67.5° H

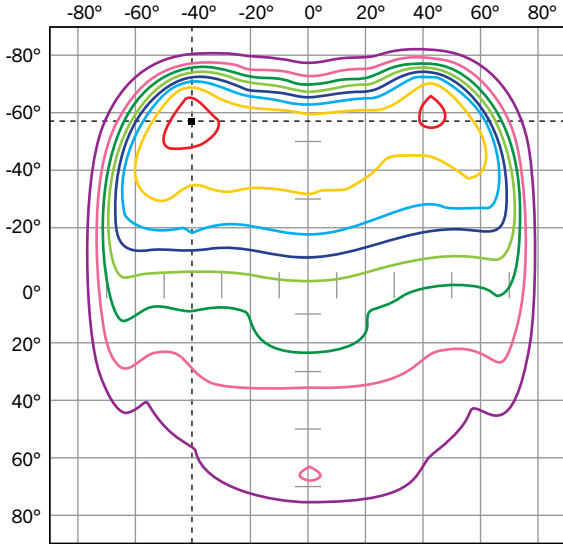
#### FLUX DISTRIBUTION

Zone	Lumens	% Luminaire
<b>Forward Light</b>		
0°-30°	3146.5	10.4%
30°-60°	13036.4	43.1%
60°-80°	7415.8	24.5%
80°-90°	389.8	1.3%
<b>Back Light</b>		
0°-30°	1490.2	4.9%
30°-60°	2770.5	9.2%
60°-80°	1779.6	5.9%
80°-90°	184.0	0.6%
<b>Up Light</b>		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
<b>Total</b>	<b>30212.8</b>	<b>100.0%</b>
<b>BUG Rating</b>	<b>B3-U0-G3</b>	

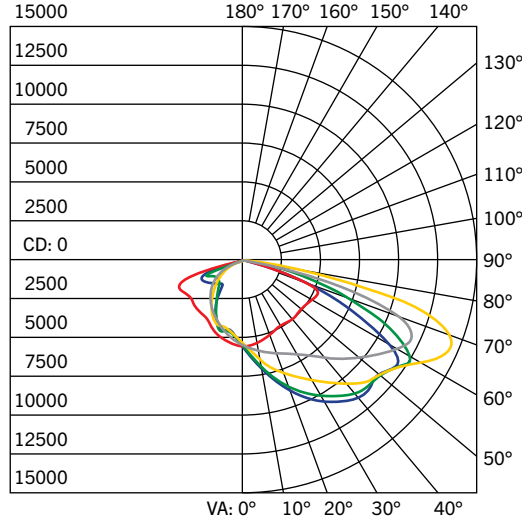
**KT-ALEDXXX-X2-OSA-NM-8XX-VDIM**  
LED AREA LIGHT FIXTURES

**PHOTOMETRIC SPECIFICATIONS (TYPE IV [4]) KT-ALED210-L2-OSA-NM-8XX-VDIM**

**ISOCANDELA PLOT**



**POLAR CANDELA DISTRIBUTION**

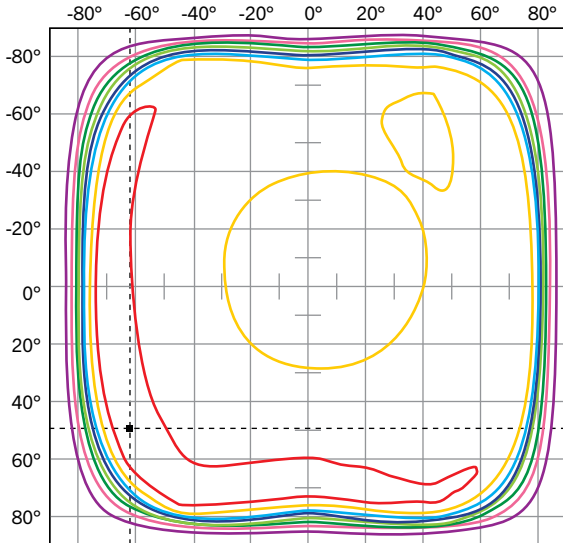


**FLUX DISTRIBUTION**

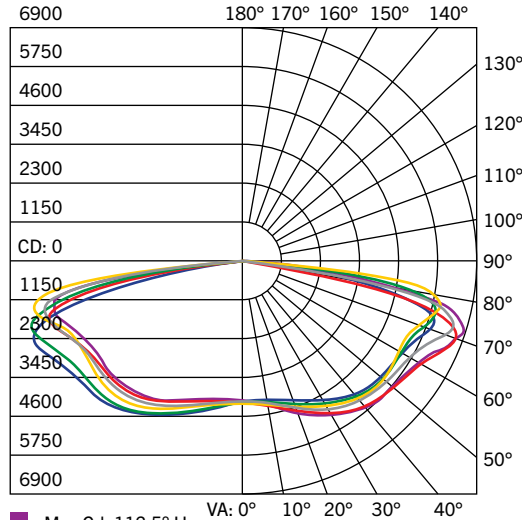
Zone	Lumens	% Luminaire
<b>Forward Light</b>		
0°-30°	3088.3	10.4
30°-60°	11006.4	37.0%
60°-80°	8165.8	27.4%
80°-90°	421.9	1.4%
<b>Back Light</b>		
0°-30°	1876.0	6.3%
30°-60°	3296.1	11.1%
60°-80°	1778.4	6.0%
80°-90°	124.2	0.4%
<b>Up Light</b>		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
<b>Total</b>	<b>29757.1</b>	<b>100.0%</b>
<b>BUG Rating</b>	<b>B3-U0-G4</b>	

**PHOTOMETRIC SPECIFICATIONS (TYPE V [5]) KT-ALED210-L2-OSA-NM-8XX-VDIM**

**ISOCANDELA PLOT**



**POLAR CANDELA DISTRIBUTION**



**FLUX DISTRIBUTION**

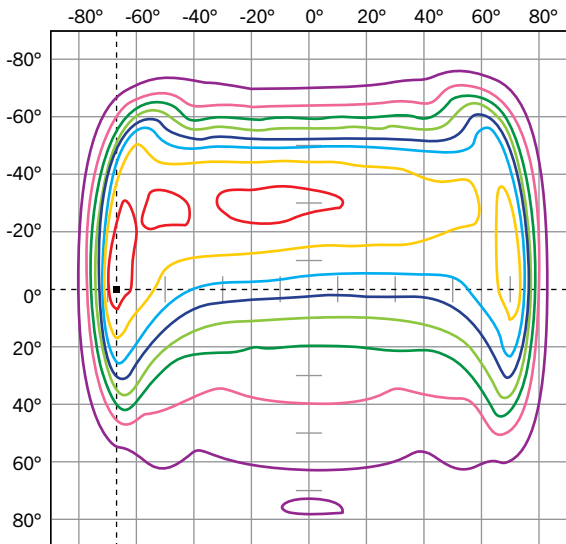
Zone	Lumens	% Luminaire
<b>Forward Light</b>		
0°-30°	1884.2	6.2%
30°-60°	5994.5	19.8%
60°-80°	5666.7	18.8%
80°-90°	1182.9	3.9%
<b>Back Light</b>		
0°-30°	1972.8	6.5%
30°-60°	6415.5	21.2%
60°-80°	6150.1	20.4%
80°-90°	941.3	3.1
<b>Up Light</b>		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
<b>Total</b>	<b>30208.0</b>	<b>100.0%</b>
<b>BUG Rating</b>	<b>B5-U0-G5</b>	

# KT-ALEDXXX-X2-OSA-NM-8XX-VDIM

## LED AREA LIGHT FIXTURES

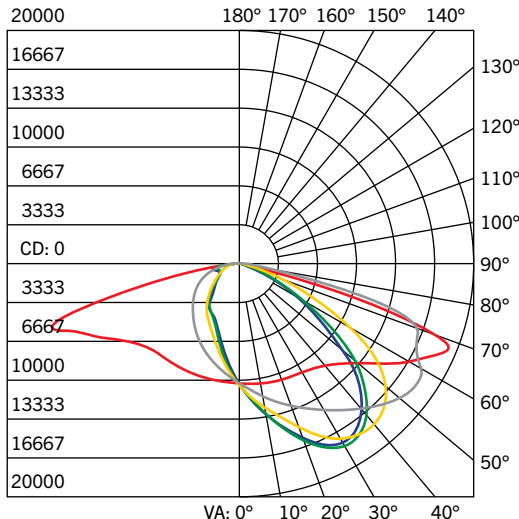
### PHOTOMETRIC SPECIFICATIONS (TYPE II [2]) KT-ALED290-L2-OSA-NM-8XX-VDIM

#### ISOCANDELA PLOT



- Point of Max Cd: 19527.4
- Cd: 17521, 90%
- Cd: 14601, 75%
- Cd: 11681, 60%
- Cd: 9734, 50%
- Cd: 7787, 40%
- Cd: 5840, 30%
- Cd: 3893, 20%
- Cd: 1947, 10%

#### POLAR CANDELA DISTRIBUTION



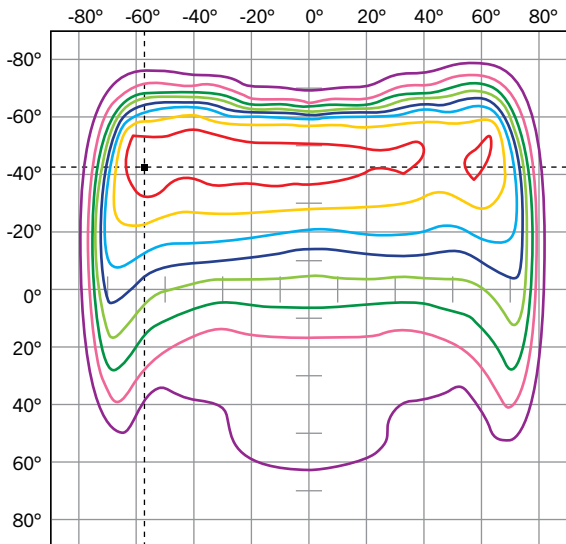
- : 0° H
- : 22.5° H
- : 67.5° H
- : 90° H
- : 45° H

#### FLUX DISTRIBUTION

Zone	Lumens	% Luminaire
<b>Forward Light</b>		
0°-30°	5916.5	13.7%
30°-60°	16643.8	38.6%
60°-80°	7364.7	17.1%
80°-90°	369.0	0.9%
<b>Back Light</b>		
0°-30°	3108.6	7.2%
30°-60°	5846.9	13.6%
60°-80°	3535.4	8.2%
80°-90°	291.8	0.7%
<b>Up Light</b>		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
<b>Total</b>	<b>43076.7</b>	<b>100.0%</b>
<b>BUG Rating</b>	<b>B4-U0-G4</b>	

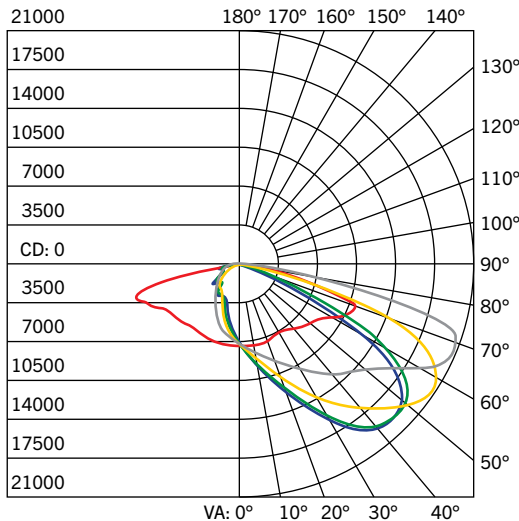
### PHOTOMETRIC SPECIFICATIONS (TYPE III [3]) KT-ALED290-L2-OSA-NM-8XX-VDIM

#### ISOCANDELA PLOT



- Point of Max Cd: 20964.5
- Cd: 18738, 90%
- Cd: 15615, 75%
- Cd: 12492, 60%
- Cd: 10410, 50%
- Cd: 8328, 40%
- Cd: 6246, 30%
- Cd: 4164, 20%
- Cd: 2082, 10%

#### POLAR CANDELA DISTRIBUTION



- : 0° H
- : 22.5° H
- : 67.5° H
- : 90° H
- : 45° H

#### FLUX DISTRIBUTION

Zone	Lumens	% Luminaire
<b>Forward Light</b>		
0°-30°	4492.4	10.7%
30°-60°	18088.3	43.2%
60°-80°	10354.3	24.7%
80°-90°	545.1	1.3%
<b>Back Light</b>		
0°-30°	2089.8	5.0%
30°-60°	3815.5	9.1%
60°-80°	2270.4	5.4%
80°-90°	222.0	0.5%
<b>Up Light</b>		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
<b>Total</b>	<b>41877.8</b>	<b>100.0%</b>
<b>BUG Rating</b>	<b>B3-U0-G4</b>	

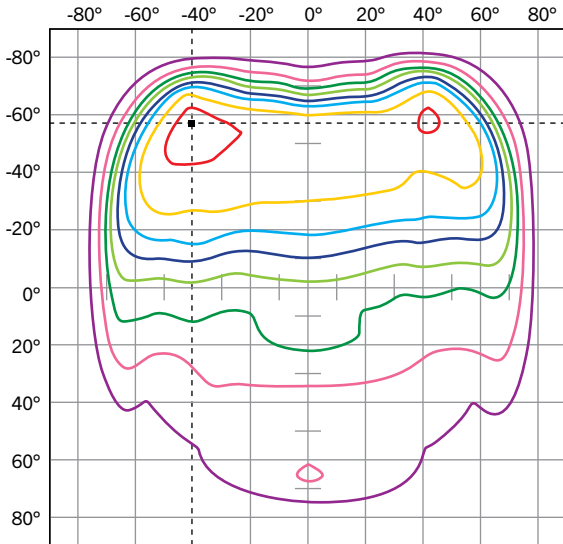


# KT-ALEDXXX-X2-OSA-NM-8XX-VDIM

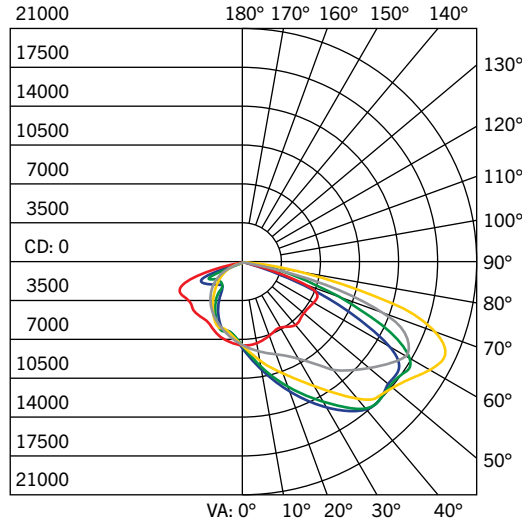
## LED AREA LIGHT FIXTURES

### PHOTOMETRIC SPECIFICATIONS (TYPE IV [4]) KT-ALED290-L2-OSA-NM-8XX-VDIM

#### ISOCANDELA PLOT



#### POLAR CANDELA DISTRIBUTION

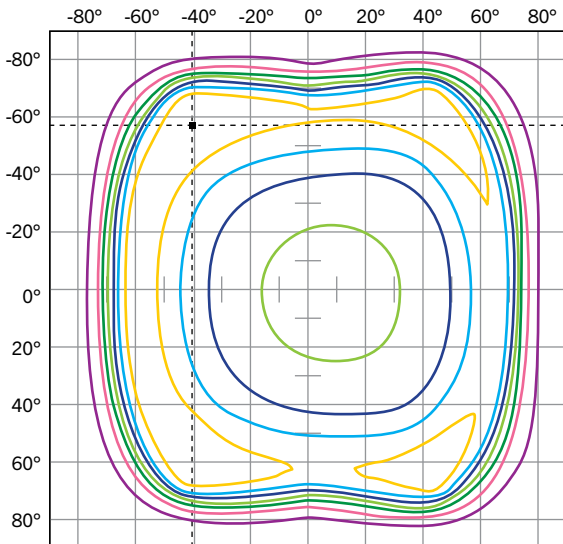


#### FLUX DISTRIBUTION

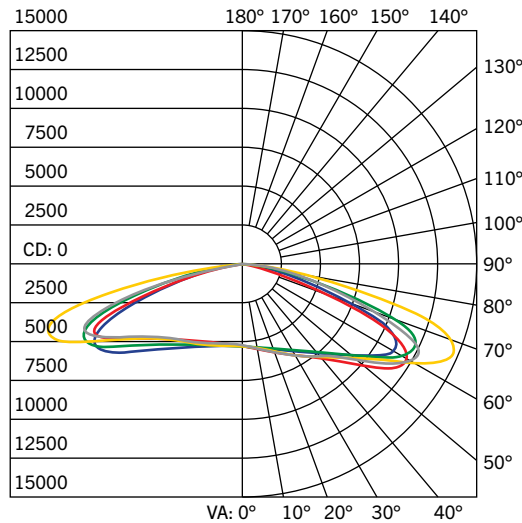
Zone	Lumens	% Luminaire
<b>Forward Light</b>		
0°-30°	4308.9	10.3
30°-60°	16467.1	39.3%
60°-80°	10980.0	26.2%
80°-90°	515.8	1.2%
<b>Back Light</b>		
0°-30°	2564.2	6.1%
30°-60°	4569.9	10.9%
60°-80°	2362.4	5.6%
80°-90°	138.2	0.3%
<b>Up Light</b>		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
<b>Total</b>	<b>41906.5</b>	<b>100.0%</b>
<b>BUG Rating</b>	<b>B4-U0-G4</b>	

### PHOTOMETRIC SPECIFICATIONS (TYPE V [5]) KT-ALED290-L2-OSA-NM-8XX-VDIM

#### ISOCANDELA PLOT



#### POLAR CANDELA DISTRIBUTION



#### FLUX DISTRIBUTION

Zone	Lumens	% Luminaire
<b>Forward Light</b>		
0°-30°	2468.6	5.7%
30°-60°	9731.6	22.6%
60°-80°	9123.0	21.2%
80°-90°	465.4	1.1%
<b>Back Light</b>		
0°-30°	2442.4	5.7%
30°-60°	9473.5	22.0%
60°-80°	8868.2	20.6%
80°-90°	411.2	1.0
<b>Up Light</b>		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
<b>Total</b>	<b>42983.9</b>	<b>100.0%</b>
<b>BUG Rating</b>	<b>B5-U0-G4</b>	





# KT-ALEDXXX-X2-OSA-NM-8XX-VDIM

## LED AREA LIGHT FIXTURES

### EPA SPECIFICATIONS

#### SMALL, MEDIUM, AND LARGE SIZE FIXTURE HOUSINGS

*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](mailto:productsupport@keystonetech.com)

EPA Calcs (1.2ft <sup>2</sup>   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 (Size)									
<b>Adjustable Pole Mount</b> 	Horizontal (S)	0.50 sq. ft.	0.73 sq. ft.	1.00 sq. ft.	1.17 sq. ft.	1.21 sq. ft.	1.17 sq. ft.	0.56 sq. ft.	0.85 sq. ft.	1.13 sq. ft.
	Horizontal (M)	0.50 sq. ft.	0.78 sq. ft.	1.01 sq. ft.	1.19 sq. ft.	1.28 sq. ft.	1.19 sq. ft.	0.74 sq. ft.	1.11 sq. ft.	1.48 sq. ft.
	Horizontal (L)	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.
<b>Adjustable Pole Mount</b> 	45° (S)	0.93 sq. ft.	1.41 sq. ft.	1.00 sq. ft.	1.89 sq. ft.	2.57 sq. ft.	1.89 sq. ft.	1.86 sq. ft.	2.78 sq. ft.	3.71 sq. ft.
	45° (M)	0.48 sq. ft.	0.87 sq. ft.	0.97 sq. ft.	1.30 sq. ft.	1.37 sq. ft.	1.30 sq. ft.	0.86 sq. ft.	1.30 sq. ft.	1.73 sq. ft.
	45° (L)	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.
<b>Slip Fitter Mount</b> 	Horizontal (S)	0.48 sq. ft.	0.81 sq. ft.	0.96 sq. ft.	1.28 sq. ft.	1.31 sq. ft.	1.28 sq. ft.	0.69 sq. ft.	1.04 sq. ft.	1.38 sq. ft.
	Horizontal (M)	0.48 sq. ft.	0.87 sq. ft.	0.97 sq. ft.	1.30 sq. ft.	1.37 sq. ft.	1.30 sq. ft.	0.86 sq. ft.	1.30 sq. ft.	1.73 sq. ft.
	Horizontal (L)	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.
<b>Slip Fitter Mount</b> 	45° (S)	1.00 sq. ft.	1.48 sq. ft.	1.00 sq. ft.	1.94 sq. ft.	2.63 sq. ft.	1.96 sq. ft.	2.00 sq. ft.	3.00 sq. ft.	4.00 sq. ft.
	45° (M)	1.34 sq. ft.	1.80 sq. ft.	1.34 sq. ft.	2.28 sq. ft.	3.06 sq. ft.	2.28 sq. ft.	2.67 sq. ft.	4.01 sq. ft.	5.35 sq. ft.
	45° (L)	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.
<b>Slip Fitter Mount</b> 	Vertical (S)	1.32 sq. ft.	1.79 sq. ft.	1.32 sq. ft.	2.27 sq. ft.	2.70 sq. ft.	2.27 sq. ft.	2.64 sq. ft.	3.95 sq. ft.	5.27 sq. ft.
	Vertical (M)	1.76 sq. ft.	2.25 sq. ft.	1.76 sq. ft.	2.73 sq. ft.	2.94 sq. ft.	2.73 sq. ft.	3.53 sq. ft.	5.29 sq. ft.	7.06 sq. ft.
	Vertical (L)	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.



# KT-ALEDXXX-X2-OSA-NM-8XX-VDIM

## LED AREA LIGHT FIXTURES

### ACCESSORIES (SOLD SEPARATELY)

#### SENSORS

**Factory-Installable OR Field-Installable** (field-installable purchased separately)

✓	SUFFIX*	CATALOG NUMBER	DESCRIPTION	UPC	EASY CODE
	/3PN	KT-TLP-UV-3PN	NEMA Type Twist-Lock 3-Pin Photocell   120-277V   1800VA Max   Blue	843654131825	NQT-46
	/7PRS	KT-RSC-7PN	NEMA Type 7-Pin Receptacle	843654135205	BIZ-08
	/MW3	KTS-MW3-12V-PKO	12V Microwave Occupancy Sensor	843654130637	TRM-32
	/FC3**	KTSL-FC3-12V-PKO-PIR	Bluetooth mesh wireless screw-in LED controller for SmartLoop system   Integrated daylight sensor   PIR motion sensor	843654138862	OCW-60
	/FC4	KTSL-FC4-12V-PKO	Bluetooth mesh wireless screw-in low voltage fixture controller for SmartLoop system	843654149066	RUN-10



Twist-Lock Photocell  
KT-TLP-UV-3PN



Twist-Lock Receptacle  
KT-RSC-7PN



Microwave Occupancy Sensor  
KTS-MW3-12V-PKO



SmartLoop PIR Motion Sensor\*\*  
KTSL-FC3-12V-PKO-PIR



SmartLoop Controller  
KTSL-FC4-12V-PKO

\* For factory installation of accessory, add suffix to fixture part number (see ordering examples and instructions on last page of spec sheet).

\*\* When installing on Keystone area lights, use small thin gasket provided with the sensor to ensure proper electrical connection and a water-tight seal. Hand tighten only. (Do NOT use the larger thick gasket. Sensor will not make electrical contact with thick gasket.) PIR sensors may not always perform reliably in typical outdoor environments. Ensure sensors are used and commissioned with this in mind. Consult Keystone for further information on the matter. When using KTSL-FC3-12V-PKO-PIR in applications with photosensor control for dusk to dawn, use 3-pin twist-lock photocells (KT-TLP-UV-3P) for optimal functionality.

**Field-Installable / Field-Use ONLY** (purchased separately)

CATALOG NUMBER	DESCRIPTION	UPC	EASY CODE
KTS-MW3-REMOTECONTROL	Remote control for KTS-MW3-12V-XX sensors   Sets and adjusts all sensor performance parameters	843654132020	XSR-61

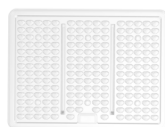


Remote Control  
KTS-MW3-REMOTECONTROL

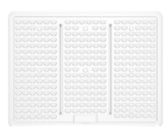
#### LENSES

**Field-Installable / Field-Use ONLY** (purchased separately)

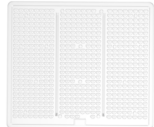
CATALOG NUMBER	DESCRIPTION	UPC	EASY CODE
KT-ALED-LENS-S2-2-KIT	Type II optics lens   Used on Series 2 area lights   Small size   CCT dedicated	843654154008	DGC-35
KT-ALED-LENS-S2-4-KIT	Type IV optics lens   Used on Series 2 area lights   Small size   CCT dedicated	843654154022	LKK-25
KT-ALED-LENS-M2-2-KIT	Type II optics lens   Used on Series 2 area lights   Medium size   CCT dedicated	843654153926	UDR-71
KT-ALED-LENS-M2-4-KIT	Type IV optics lens   Used on Series 2 area lights   Medium size   CCT dedicated	843654153964	PNA-91
KT-ALED-LENS-L2-2-KIT	Type II optics lens   Used on Series 2 area lights   Large size   CCT dedicated	843654153841	NFU-40
KT-ALED-LENS-L2-4-KIT	Type IV optics lens   Used on Series 2 area lights   Large size   CCT dedicated	843654153889	BSU-72



Lenses  
KT-ALED-LENS-S2-X-KIT



Lenses  
KT-ALED-LENS-M2-X-KIT



Lenses  
KT-ALED-LENS-L2-X-KIT

(Accessories continued on next page)

# KT-ALEDXXX-X2-OSA-NM-8XX-VDIM

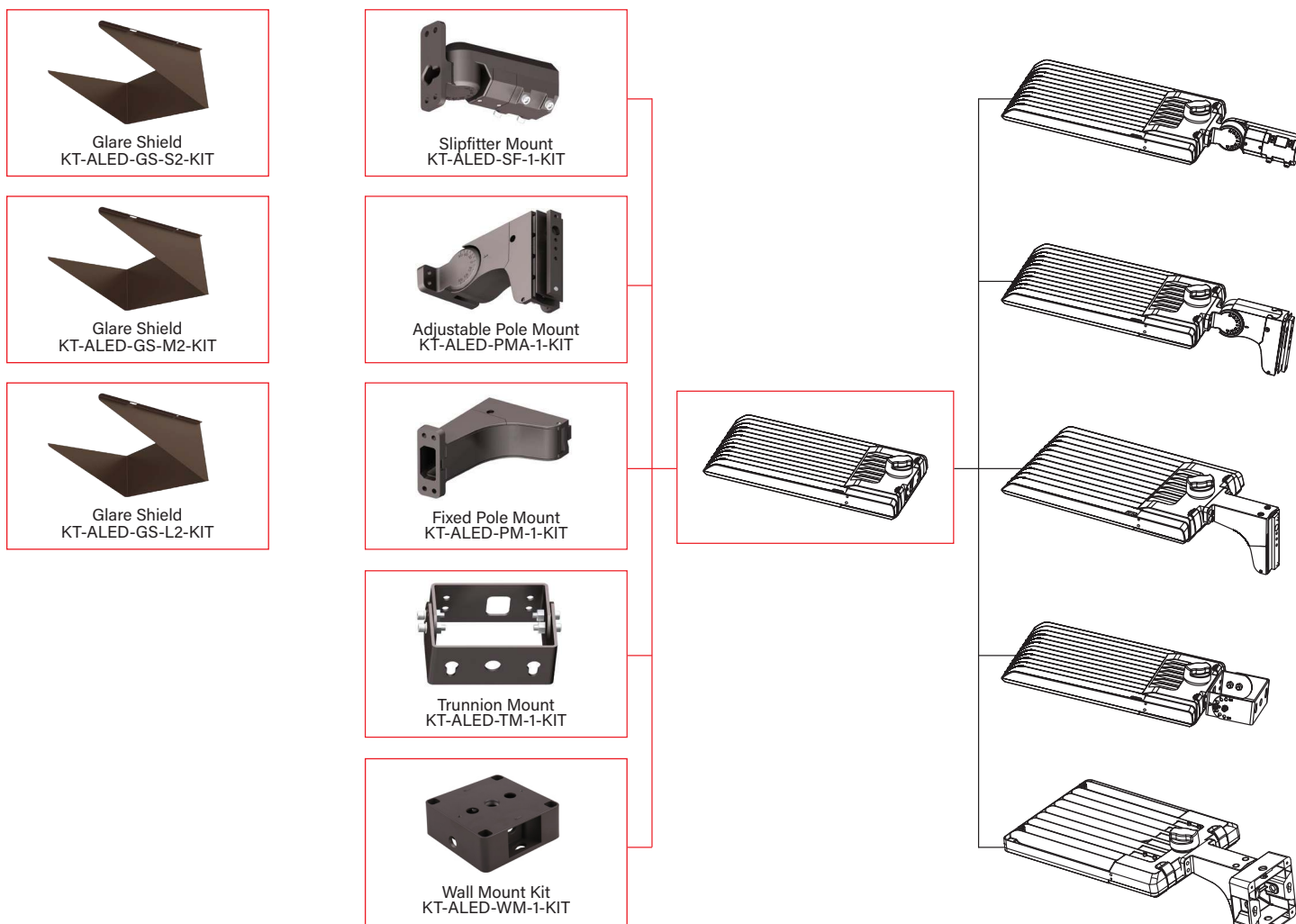
## LED AREA LIGHT FIXTURES

**ACCESSORIES (SOLD SEPARATELY)**

**MOUNTS AND BRACKETS**

Field-Installable / Field-Use ONLY (purchased separately)

CATALOG NUMBER	DESCRIPTION	UPC	EASY CODE
KT-ALED-GS-S2-KIT	Reversible glare shield   Used on Series 2 area lights   Small size   Bronze	843654153780	PME-57
KT-ALED-GS-M2-KIT	Reversible glare shield   Used on Series 2 area lights   Medium size   Bronze	843654153797	HEM-55
KT-ALED-GS-L2-KIT	Reversible glare shield   Used on Series 2 area lights   Large size   Bronze	843654153810	RDW-18
KT-ALED-SF-1-KIT	Slipfitter mount   Fits 2 3/8" tenon   Bronze	843654131641	JRH-74
KT-ALED-PMA-1-KIT	Adjustable Pole Mount   For round or square pole   Bronze	843654131634	DAQ-87
KT-ALED-PM-1-KIT	Fixed Pole Mount   For round or square pole   Bronze	843654131627	QVG-29
KT-ALED-TM-1-KIT	Trunnion Mount   Bronze	843654131658	GTH-37
KT-ALED-WM-1-KIT	Wall Mount Kit   Bronze	843654158952	QCV-37



**Note:** Wall mount adaptor must be used with adjustable or fixed pole mounts



# KT-ALEDXXX-X2-OSA-NM-8XX-VDIM

## LED AREA LIGHT FIXTURES

### ORDERING INFORMATION

ORDER CODE	UPC	Easy Code	DLC PRODUCT ID
KT-ALED70-S2-OSA-NM-840-VDIM	843654152967	PEM-16	S-4FK0P3
KT-ALED70-S2-OSA-NM-850-VDIM	843654152974	ANO-96	S-CRT3LI
KT-ALED100-S2-OSA-NM-840-VDIM	843654152981	WCO-18	S-BZUL5E
KT-ALED100-S2-OSA-NM-850-VDIM	843654152998	TAV-30	S-PCOTHS
KT-ALED140-M2-OSA-NM-840-VDIM	843654153001	VUR-27	S-URO9PN
KT-ALED140-M2-OSA-NM-850-VDIM	843654153018	CEM-23	S-F0MJWD
KT-ALED210-L2-OSA-NM-840-VDIM	843654153025	XPH-40	S-BWOVAS
KT-ALED210-L2-OSA-NM-850-VDIM	843654153032	NYP-51	S-UB92M0
KT-ALED290-L2-OSA-NM-840-VDIM	843654153049	RZT-170	S-JTF85O
KT-ALED290-L2-OSA-NM-850-VDIM	843654153056	RMW-20	S-HQRX8G

### CATALOG NUMBER BREAKDOWN

# KT-ALEDXXX-X2-OSA-NM-8XX-VDIM

1 2 3 4 5 6 7 8 9 10 11 12 13

#### 1 Keystone Technologies

#### 2 Area Light

#### 3 LED Technology

#### 4 Wattage

#### 5 Size / Shape

#### 6 Style / Design Designation

#### 7 Optic Swap

#### 8 Optic Swap Designation

#### 9 No Mounting

#### 10 80 CRI

#### 11 CCT

#### 12 0-10V Dimming

#### 13 Housing Color\*

#### 4 Wattage

70	70W
100	100W
140	140W
210	210W
290	290W

#### 5 Size / Shape

S	Small
M	Medium
L	Large

#### 7 Optic Swap Designation

A	Type III lens installed, Type V lens included
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#### 11 CCT

40	4000K
50	5000K

\* Fixtures and mounts with alternate housing colors are available and made to order. Extended lead times apply.

### ORDERING EXAMPLES

FIXTURE WITH SINGLE FACTORY-INSTALLED ACCESSORY

**KT-ALED70-S2-OSA-NM-850-VDIM /7PRS**

FIXTURE WITH NO FACTORY-INSTALLED ACCESSORIES

**KT-ALED70-S2-OSA-NM-850-VDIM**

KEYSTONE FIXTURE

CATALOG NUMBER

KT-ALED70-S2-OSA-NM-850-VDIM

SENSORS

✓	SUFFIX	CATALOG NUMBER
✓	/7PRS	KT-RSC-7PN

\* When ordering more than one factory-installed accessory, use multiple suffixes as shown in the ordering examples above.

**Note:** All accessories can also be ordered separately for field installation using just their regular Catalog Number, UPC, or Easy Code.