



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 with 6kV surge protection
- 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 | | | | | | | | | |

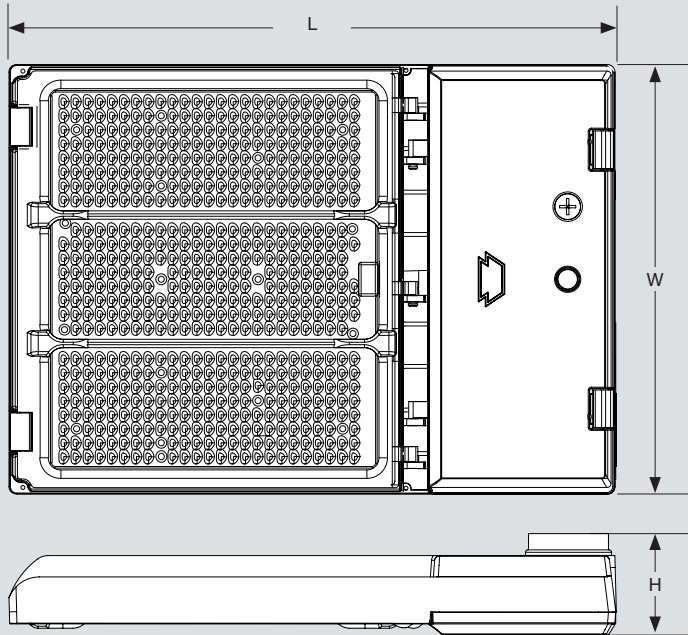
* For more information, see Accessories page below or contact Keystone with questions.
 ** Fixtures and mounts with alternate housing colors are available and made to order. Extended lead times apply. Please see catalog number breakdown for full ordering code details.

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

LED AREA LIGHT FIXTURES

PHYSICAL SPECIFICATIONS

LED AREA LIGHT FIXTURE



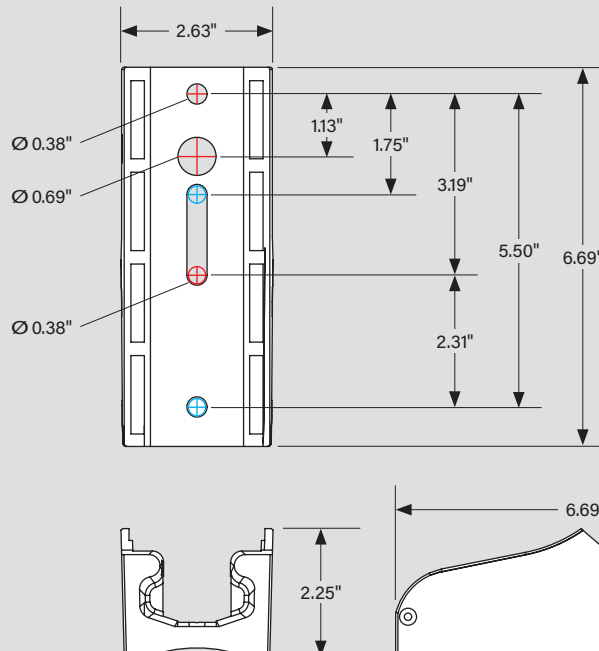
FIXTURE DIMENSIONS

| 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 |

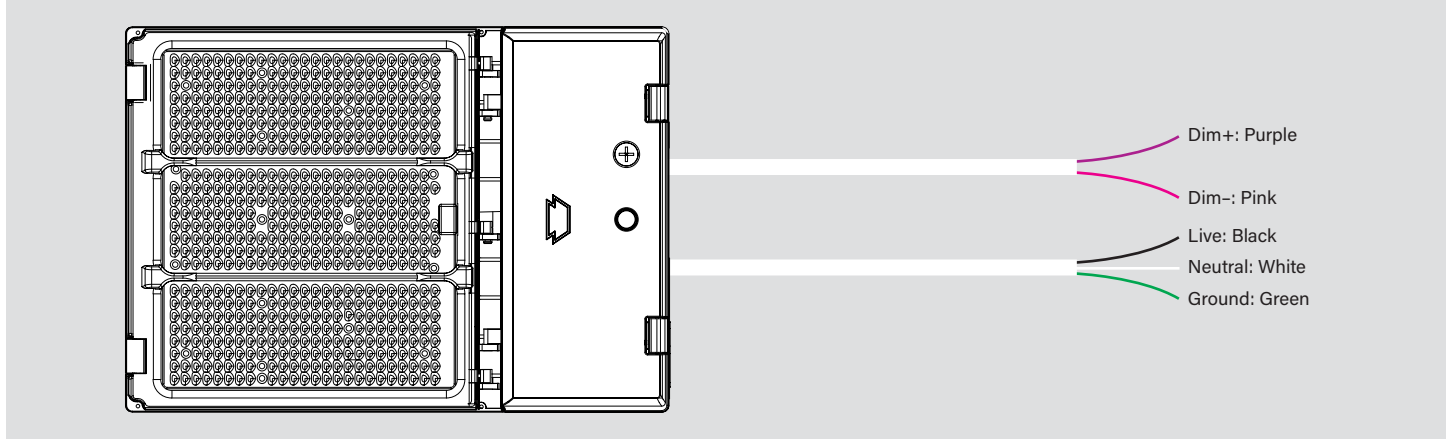
POLE MOUNT (ADJUSTABLE OR FIXED) DRILLING HOLES



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

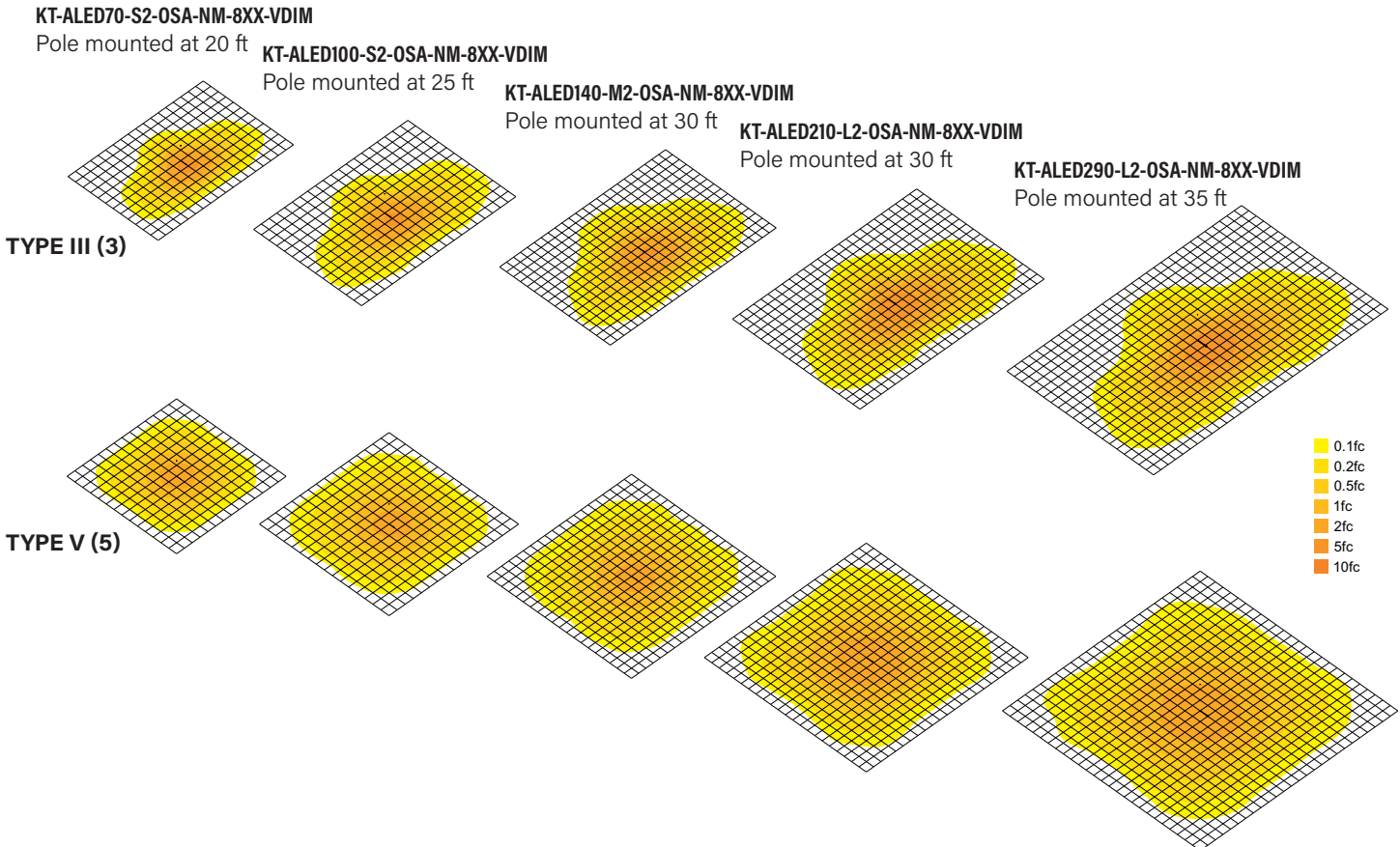
LED AREA LIGHT FIXTURES

WIRING DIAGRAM



LIGHT DISTRIBUTION PATTERN

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



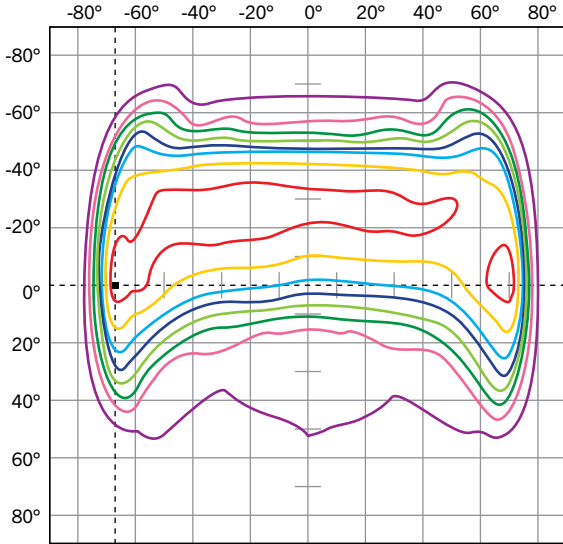


KT-ALEDXXX-X2-OSA-NM-8XX-VDIM

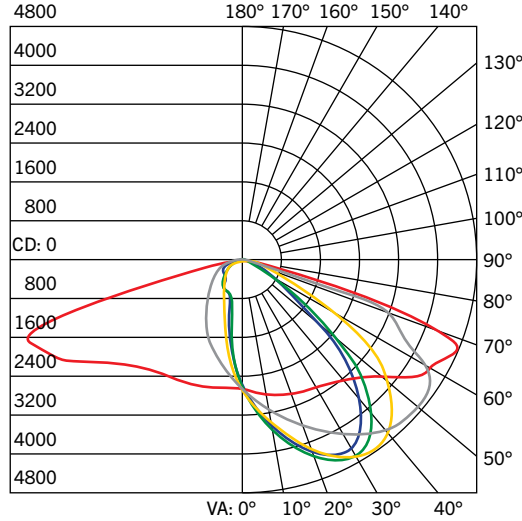
LED AREA LIGHT FIXTURES

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

ISOCANDELA PLOT



POLAR CANDELA DISTRIBUTION

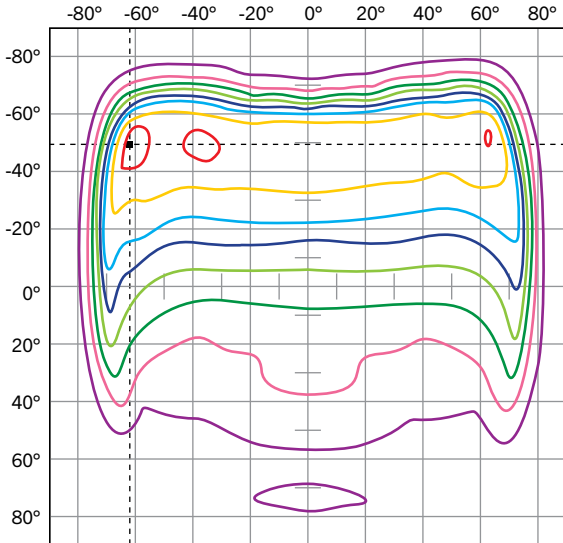


FLUX DISTRIBUTION

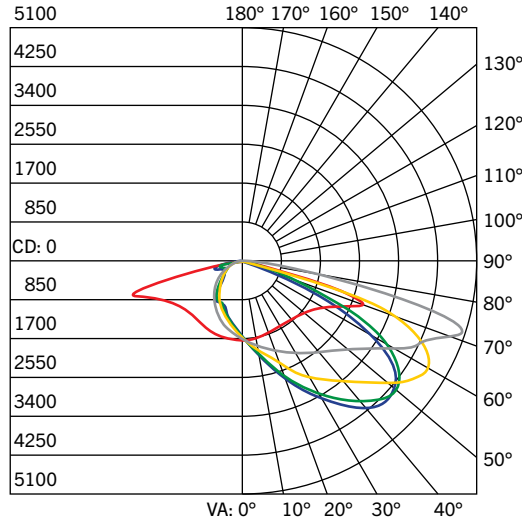
| Zone | Lumens | % Luminaire |
|----------------------|-----------------|---------------|
| Forward Light | | |
| 0°-30° | 1595.3 | 16.4% |
| 30°-60° | 4082.6 | 42.1% |
| 60°-80° | 1425.9 | 14.7% |
| 80°-90° | 38.0 | 0.4% |
| Back Light | | |
| 0°-30° | 625.6 | 6.4% |
| 30°-60° | 1160.5 | 12.0% |
|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

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

ISOCANDELA PLOT



POLAR CANDELA DISTRIBUTION



FLUX DISTRIBUTION

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

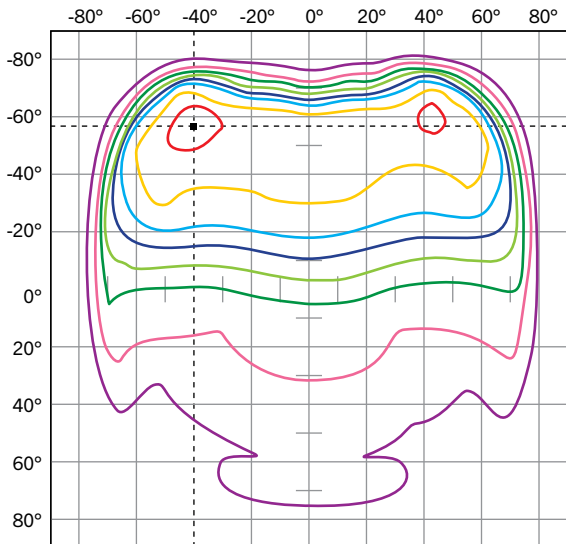


KT-ALEDXXX-X2-OSA-NM-8XX-VDIM

LED AREA LIGHT FIXTURES

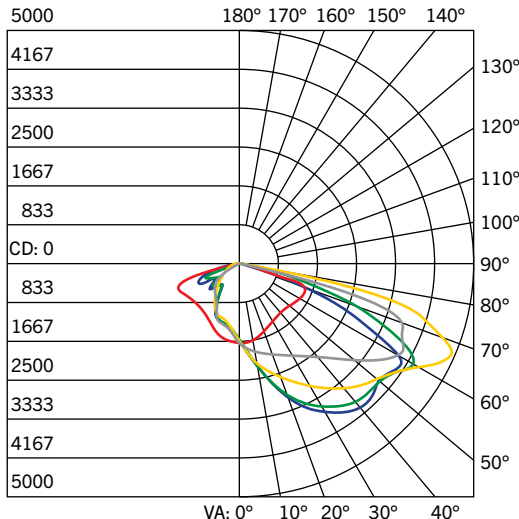
PHOTOMETRIC SPECIFICATIONS (TYPE IV [4]) KT-ALED70-S2-OSA-NM-8XX-VDIM

ISOCANDELA PLOT



- Point of Max Cd: 4926.3
- Cd: 4381, 90%
- Cd: 3651, 75%
- Cd: 2921, 60%
- Cd: 2434, 50%
- Cd: 1947, 40%
- Cd: 1460, 30%
- Cd: 974, 20%
- Cd: 487, 10%

POLAR CANDELA DISTRIBUTION



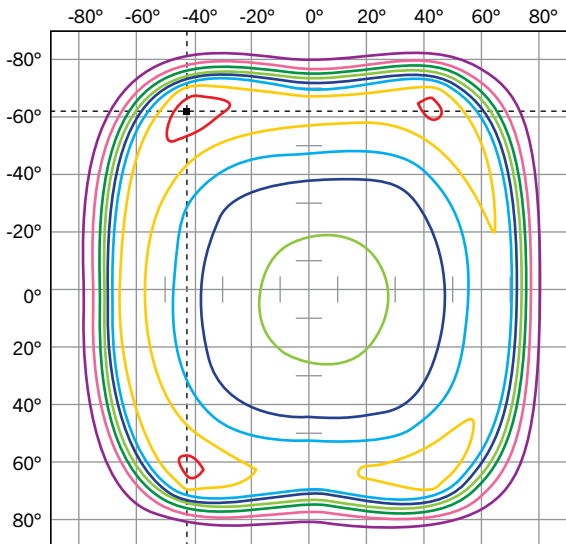
- : 0° H
- : 22.5° H
- : 67.5° H
- : 90° H
- : 45° H

FLUX DISTRIBUTION

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

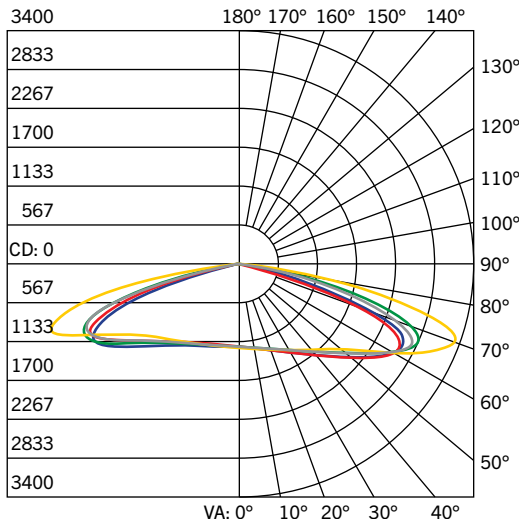
PHOTOMETRIC SPECIFICATIONS (TYPE V [5]) KT-ALED70-S2-OSA-NM-8XX-VDIM

ISOCANDELA PLOT



- Point of Max Cd: 3319.8
- Cd: 2954, 90%
- Cd: 2461, 75%
- Cd: 1969, 60%
- Cd: 1641, 50%
- Cd: 1313, 40%
- Cd: 985, 30%
- Cd: 656, 20%
- Cd: 328, 10%

POLAR CANDELA DISTRIBUTION



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

FLUX DISTRIBUTION

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

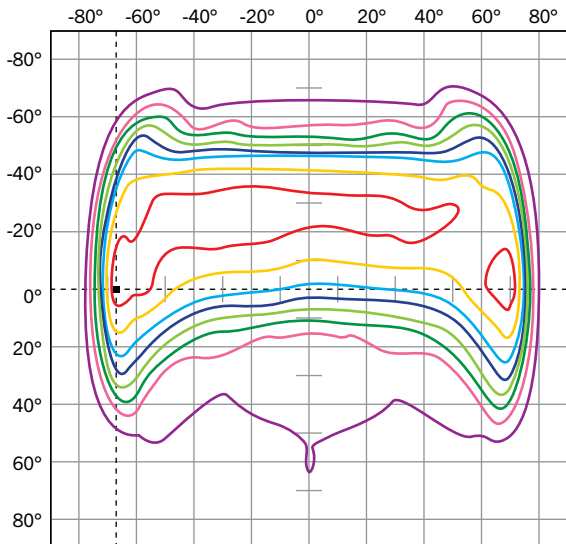


KT-ALEDXXX-X2-OSA-NM-8XX-VDIM

LED AREA LIGHT FIXTURES

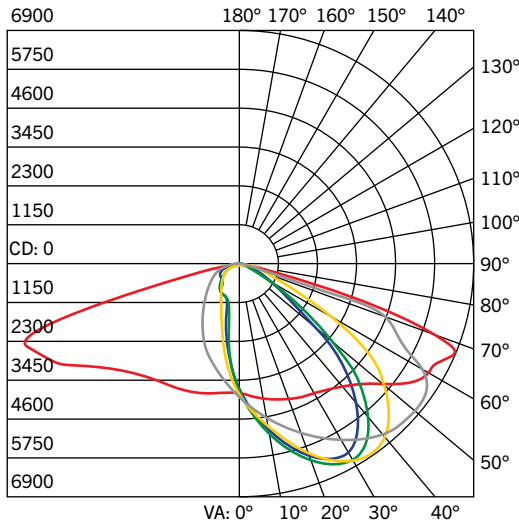
PHOTOMETRIC SPECIFICATIONS (TYPE II [2]) KT-ALED100-S2-OSA-NM-8XX-VDIM

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



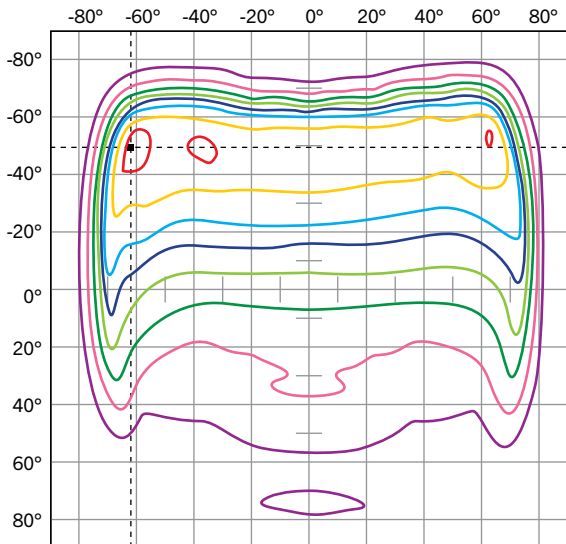
- : 0° H
- : 22.5° H
- : 67.5° H
- : 90° H
- : 45° H

FLUX DISTRIBUTION

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

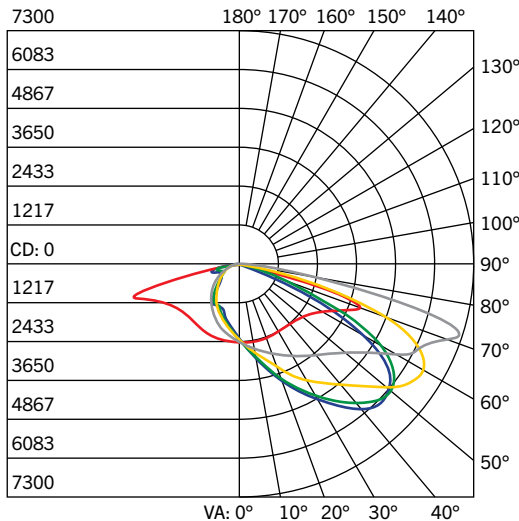
PHOTOMETRIC SPECIFICATIONS (TYPE III [3]) KT-ALED100-S2-OSA-NM-8XX-VDIM

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

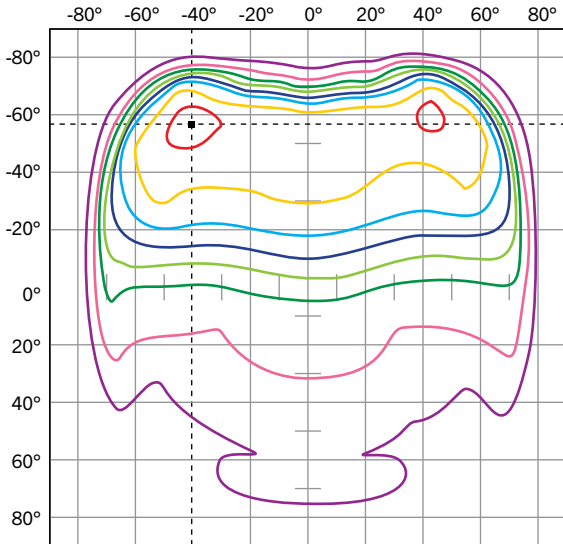
| Zone | Lumens | % Luminaire |
|----------------------|-----------------|---------------|
| Forward Light | | |
| 0°-30° | 1415.4 | 10.2% |
| 30°-60° | 5521.2 | 39.7% |
| 60°-80° | 3645.2 | 26.2% |
| 80°-90° | 197.9 | 1.4% |
| Back Light | | |
| 0°-30° | 779.3 | 5.6% |
| 30°-60° | 1426.2 | 10.3% |
|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

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

LED AREA LIGHT FIXTURES

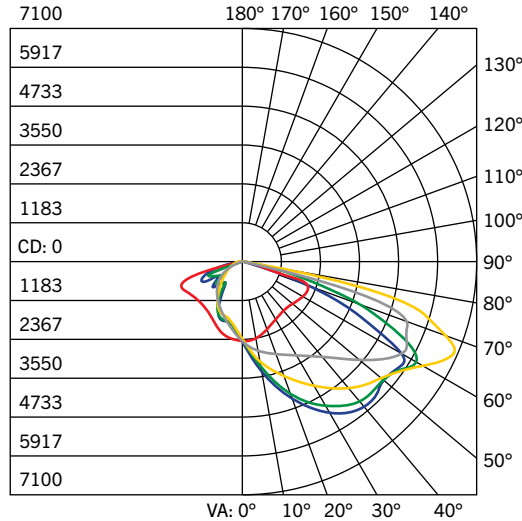
PHOTOMETRIC SPECIFICATIONS (TYPE IV [4]) KT-ALED100-S2-OSA-NM-8XX-VDIM

ISOCANDELA PLOT



- Point of Max Cd: 7027.6
- Cd: 6266, 90%
- Cd: 5222, 75%
- Cd: 4177, 60%
- Cd: 3481, 50%
- Cd: 2785, 40%
- Cd: 2089, 30%
- Cd: 1392, 20%
- Cd: 696, 10%

POLAR CANDELA DISTRIBUTION



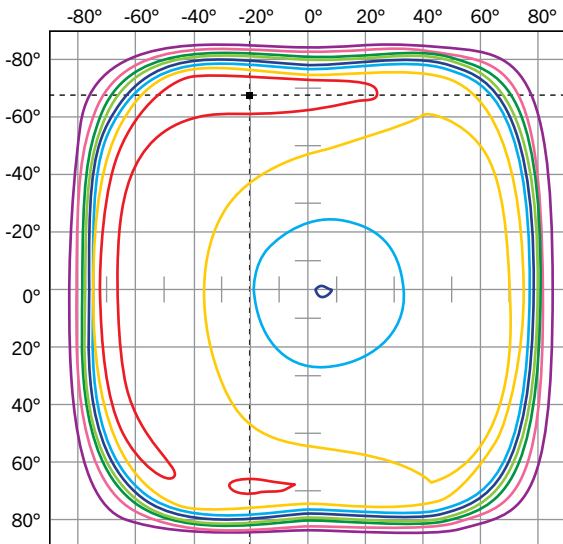
- : 0° H
- : 22.5° H
- : 67.5° H
- : 90° H
- : 45° H

FLUX DISTRIBUTION

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

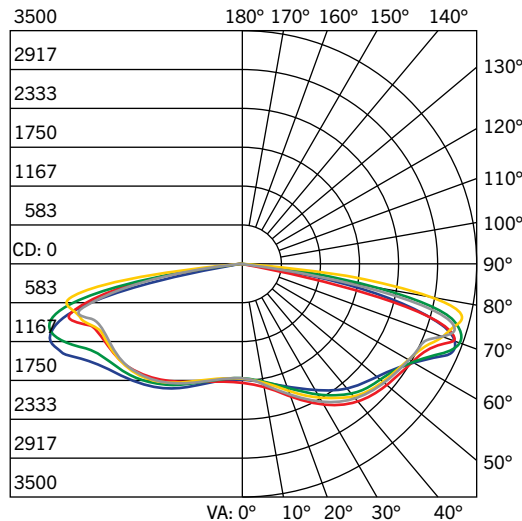
PHOTOMETRIC SPECIFICATIONS (TYPE V [5]) KT-ALED100-S2-OSA-NM-8XX-VDIM

ISOCANDELA PLOT



- Point of Max Cd: 3485.3
- Cd: 3114, 90%
- Cd: 2595, 75%
- Cd: 2076, 60%
- Cd: 1730, 50%
- Cd: 1384, 40%
- Cd: 1038, 30%
- Cd: 692, 20%
- Cd: 346, 10%

POLAR CANDELA DISTRIBUTION



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

FLUX DISTRIBUTION

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

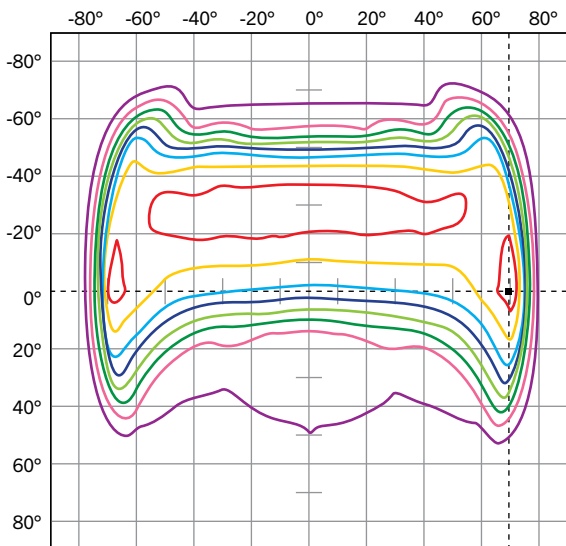


KT-ALEDXXX-X2-OSA-NM-8XX-VDIM

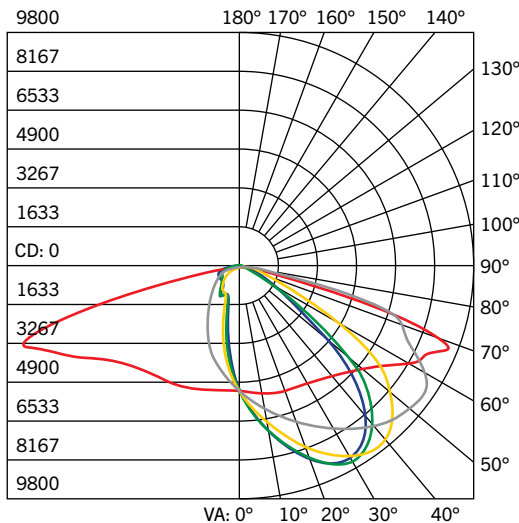
LED AREA LIGHT FIXTURES

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

ISOCANDELA PLOT



POLAR CANDELA DISTRIBUTION

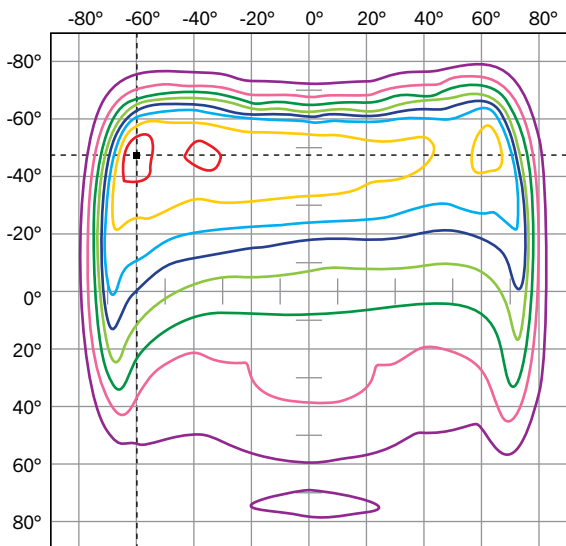


FLUX DISTRIBUTION

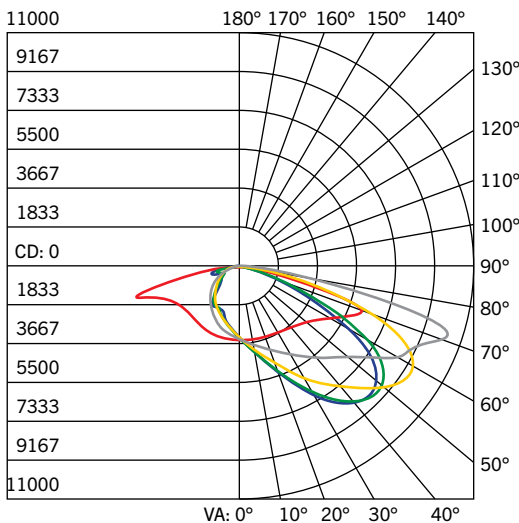
| Zone | Lumens | % Luminaire |
|----------------------|-----------------|---------------|
| Forward Light | | |
| 0°-30° | 3186.7 | 16.1% |
| 30°-60° | 8489.0 | 42.9% |
| 60°-80° | 3168.5 | 16.0% |
| 80°-90° | 93.8 | 0.5% |
| Back Light | | |
| 0°-30° | 1190.4 | 6.0% |
| 30°-60° | 2131 | 10.8% |
| 60°-80°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

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

ISOCANDELA PLOT



POLAR CANDELA DISTRIBUTION



FLUX DISTRIBUTION

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

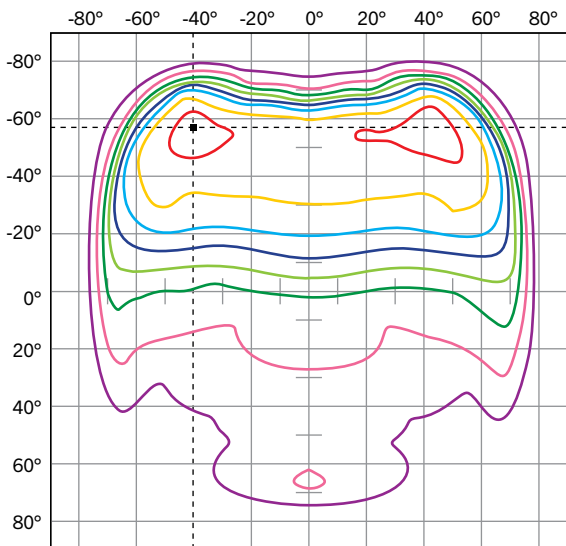


KT-ALEDXXX-X2-OSA-NM-8XX-VDIM

LED AREA LIGHT FIXTURES

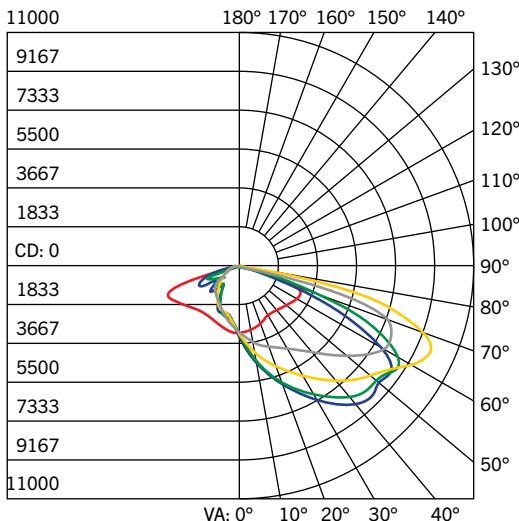
PHOTOMETRIC SPECIFICATIONS (TYPE IV [4]) KT-ALED140-M2-OSA-NM-8XX-VDIM

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



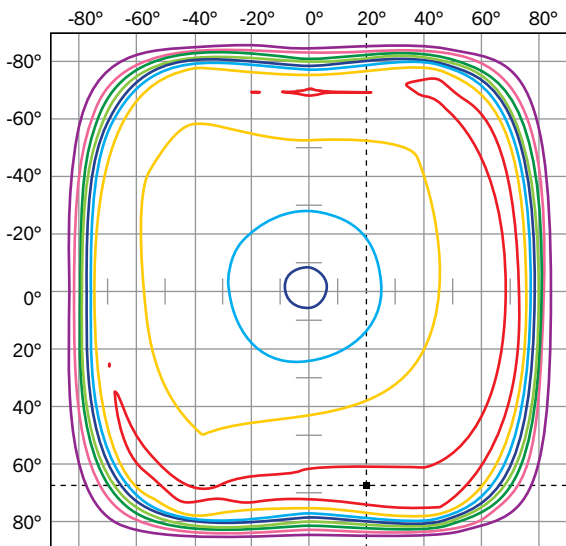
- : 0° H
- : 22.5° H
- : 67.5° H
- : 90° H
- : 45° H

FLUX DISTRIBUTION

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

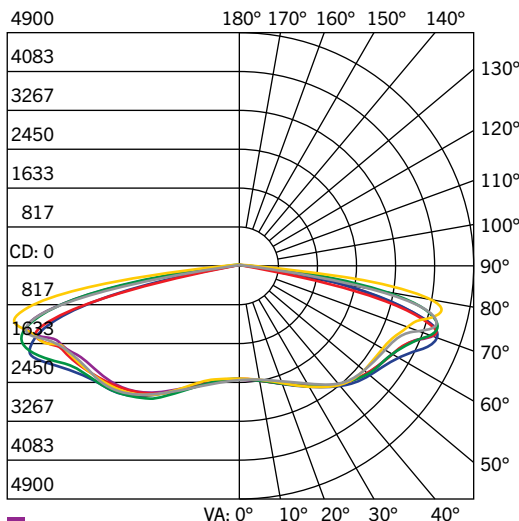
PHOTOMETRIC SPECIFICATIONS (TYPE V [5]) KT-ALED140-M2-OSA-NM-8XX-VDIM

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

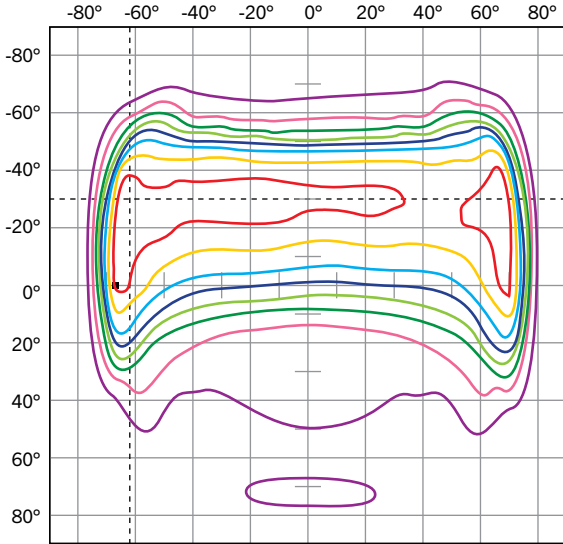


KT-ALEDXXX-X2-OSA-NM-8XX-VDIM

LED AREA LIGHT FIXTURES

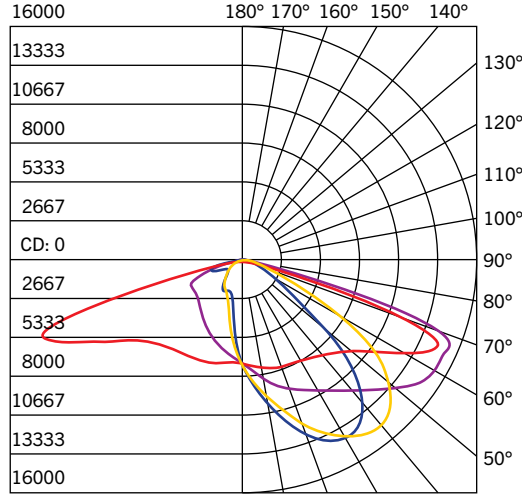
PHOTOMETRIC SPECIFICATIONS (TYPE II [2]) KT-ALED210-L2-OSA-NM-8XX-VDIM

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



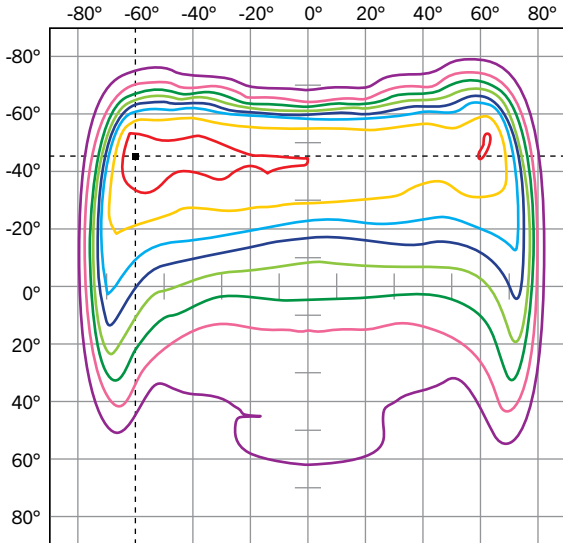
- : Max CD: 75° H
- : 0° H
- : 90° H
- : 45° H

FLUX DISTRIBUTION

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

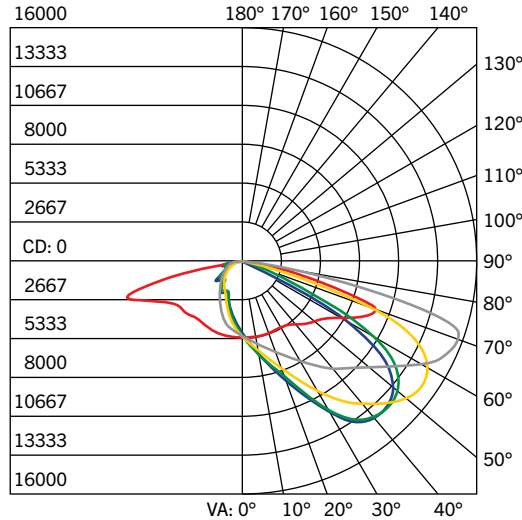
PHOTOMETRIC SPECIFICATIONS (TYPE III [3]) KT-ALED210-L2-OSA-NM-8XX-VDIM

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

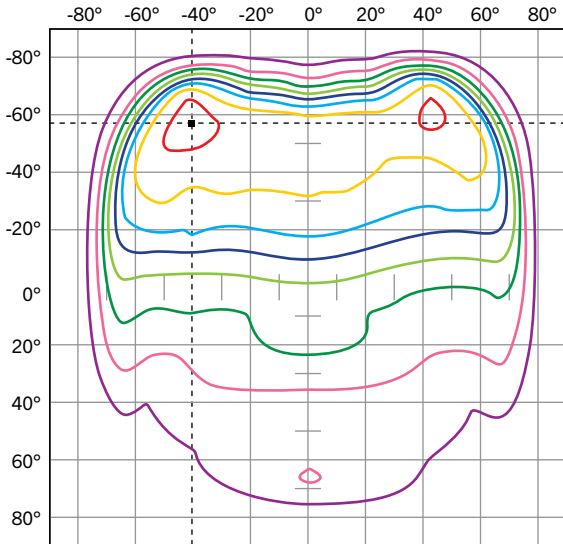
| Zone | Lumens | % Luminaire |
|----------------------|-----------------|---------------|
| Forward Light | | |
| 0°-30° | 3146.5 | 10.4% |
| 30°-60° | 13036.4 | 43.1% |
| 60°-80° | 7415.8 | 24.5% |
| 80°-90° | 389.8 | 1.3% |
| Back Light | | |
| 0°-30° | 1490.2 | 4.9% |
| 30°-60° | 2770.5 | 9.2% |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

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

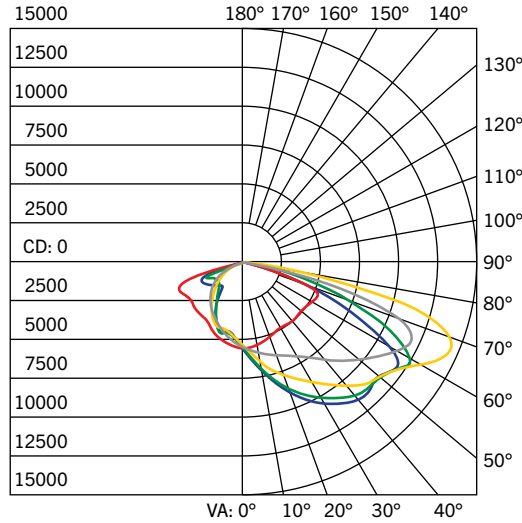
LED AREA LIGHT FIXTURES

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

ISOCANDELA PLOT



POLAR CANDELA DISTRIBUTION

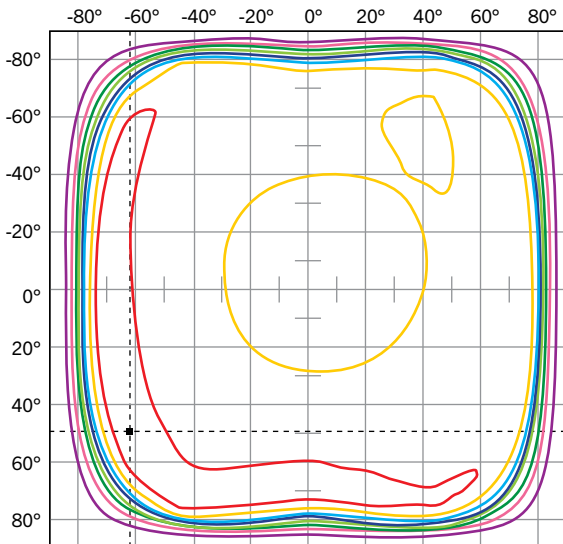


FLUX DISTRIBUTION

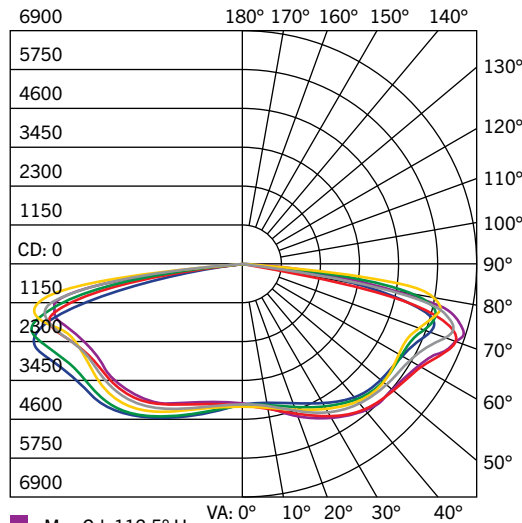
| Zone | Lumens | % Luminaire |
|----------------------|-----------------|---------------|
| Forward Light | | |
| 0°-30° | 3088.3 | 10.4 |
| 30°-60° | 11006.4 | 37.0% |
| 60°-80° | 8165.8 | 27.4% |
| 80°-90° | 421.9 | 1.4% |
| Back Light | | |
| 0°-30° | 1876.0 | 6.3% |
| 30°-60° | 3296.1 | 11.1% |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

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

ISOCANDELA PLOT



POLAR CANDELA DISTRIBUTION



FLUX DISTRIBUTION

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

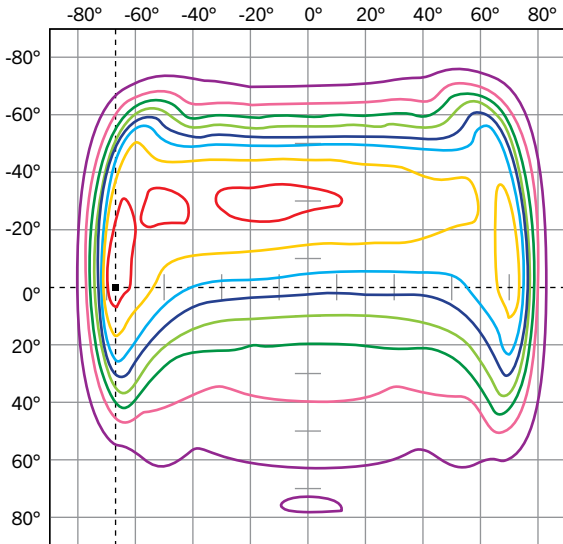


KT-ALEDXXX-X2-OSA-NM-8XX-VDIM

LED AREA LIGHT FIXTURES

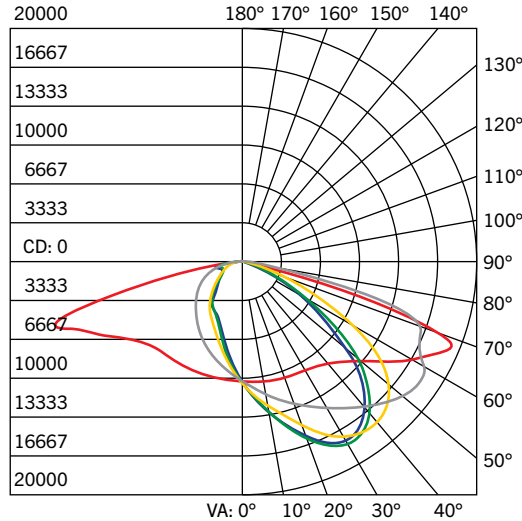
PHOTOMETRIC SPECIFICATIONS (TYPE II [2]) KT-ALED290-L2-OSA-NM-8XX-VDIM

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



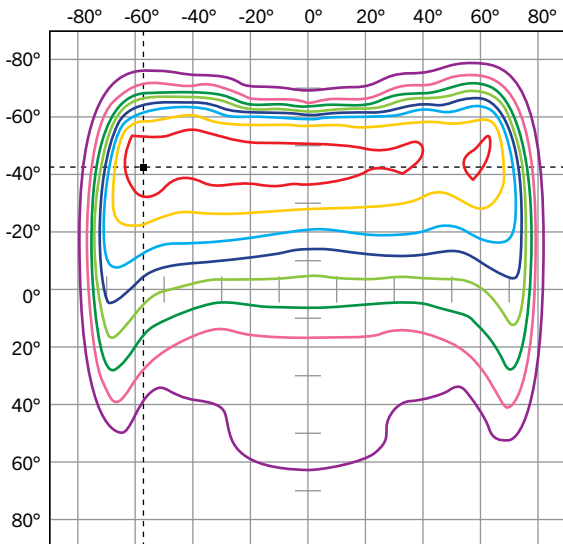
- : 0° H
- : 22.5° H
- : 67.5° H
- : 90° H
- : 45° H

FLUX DISTRIBUTION

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

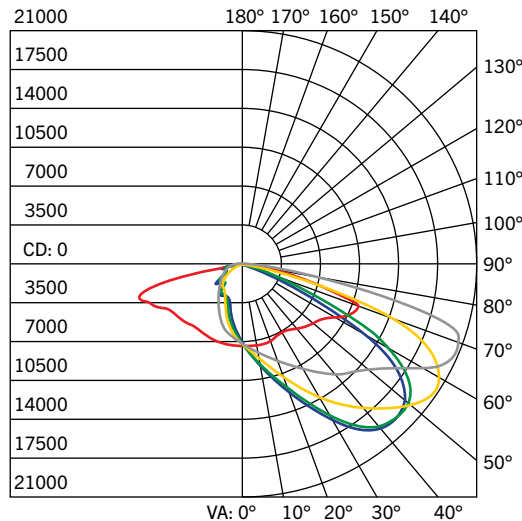
PHOTOMETRIC SPECIFICATIONS (TYPE III [3]) KT-ALED290-L2-OSA-NM-8XX-VDIM

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

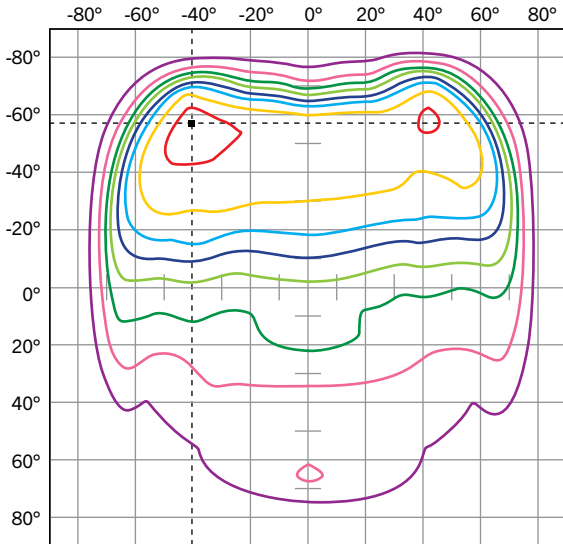
| Zone | Lumens | % Luminaire |
|----------------------|-----------------|---------------|
| Forward Light | | |
| 0°-30° | 4492.4 | 10.7% |
| 30°-60° | 18088.3 | 43.2% |
| 60°-80° | 10354.3 | 24.7% |
| 80°-90° | 545.1 | 1.3% |
| Back Light | | |
| 0°-30° | 2089.8 | 5.0% |
| 30°-60° | 3815.5 | 9.1% |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

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

LED AREA LIGHT FIXTURES

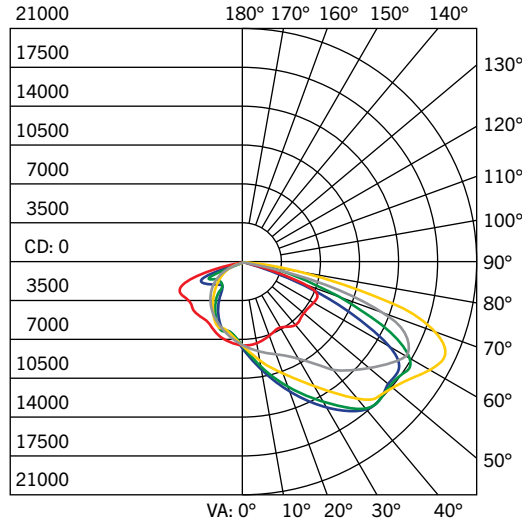
PHOTOMETRIC SPECIFICATIONS (TYPE IV [4]) KT-ALED290-L2-OSA-NM-8XX-VDIM

ISOCANDELA PLOT



- Point of Max Cd: 20086.3
- Cd: 18004, 90%
- Cd: 15004, 75%
- Cd: 12003, 60%
- Cd: 10002, 50%
- Cd: 8002, 40%
- Cd: 6001, 30%
- Cd: 4001, 20%
- Cd: 2000, 10%

POLAR CANDELA DISTRIBUTION



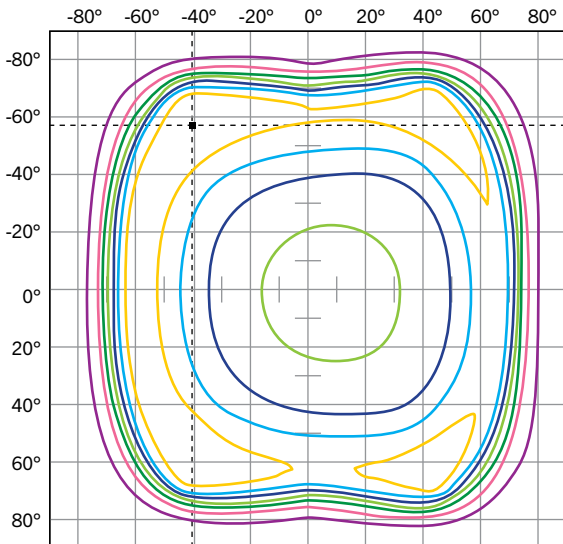
- : 0° H
- : 22.5° H
- : 67.5° H
- : 90° H
- : 45° H

FLUX DISTRIBUTION

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

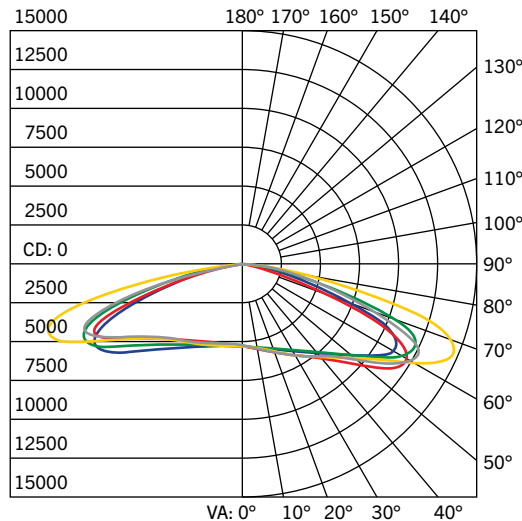
PHOTOMETRIC SPECIFICATIONS (TYPE V [5]) KT-ALED290-L2-OSA-NM-8XX-VDIM

ISOCANDELA PLOT



- Point of Max Cd: 14890.5
- Cd: 13302, 90%
- Cd: 11085, 75%
- Cd: 8868, 60%
- Cd: 7390, 50%
- Cd: 5912, 40%
- Cd: 4434, 30%
- Cd: 2956, 20%
- Cd: 1478, 10%

POLAR CANDELA DISTRIBUTION



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

FLUX DISTRIBUTION

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



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

| EPA Calcs (1.2ft 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 (Size) | | | | | | | | | | |
| | Adjustable Pole Mount | | | | | | | | | | |
| | 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. | |
| | 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) | 1.27 sq. ft. | 1.73 sq. ft. | 1.27 sq. ft. | 2.20 sq. ft. | 3.05 sq. ft. | 2.20 sq. ft. | 5.53 sq. ft. | 3.80 sq. ft. | 5.07 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. | |
| | | 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. | |
| | 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. | |
| | 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.

*** Factory-installed only (not field-installable).

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

SURGE PROTECTORS

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

| CATALOG NUMBER | DESCRIPTION | UPC | EASY CODE |
|----------------|---|--------------|-----------|
| KTSP-10KV-C | External surge protector Compact design | 843654129204 | BUU-26 |



External surge protector
KTSP-10KV-C

(Accessories continued on next page)

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

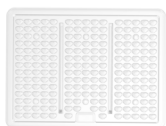
LED AREA LIGHT FIXTURES

ACCESSORIES CONTINUED (SOLD SEPARATELY)

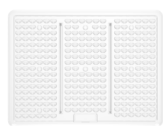
LENSES

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-KT | 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

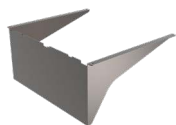


Lenses
KT-ALED-LENS-L2-X-KIT

MOUNTS AND BRACKETS

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

| CATALOG NUMBER | DESCRIPTION | UPC | EASY CODE |
|---------------------|---|--------------|-----------|
| KT-ALED-GS-S2-KIT | Reversible glare shield Small size Bronze | 843654153780 | PME-57 |
| KT-ALED-GS-M2-KIT | Reversible glare shield Medium size Bronze | 843654153797 | HEM-55 |
| KT-ALED-GS-L2-KIT | Reversible glare shield Large size Bronze | 843654153810 | RDW-18 |
| KT-ALED-GS-S2-R-KIT | Right-side mounted glare shield Small size Bronze | 843654163918 | YRJ-64 |
| KT-ALED-GS-S2-L-KIT | Left-side mounted glare shield Small size Bronze | 843654163925 | BRZ-54 |
| KT-ALED-GS-M2-R-KIT | Right-side mounted glare shield Medium size Bronze | 843654163895 | OYO-78 |
| KT-ALED-GS-M2-L-KIT | Left-side mounted glare shield Medium size Bronze | 843654163901 | GLB-48 |
| KT-ALED-GS-L2-R-KIT | Right-side mounted glare shield Large size Bronze | 843654163871 | KAV-10 |
| KT-ALED-GS-L2-L-KIT | Left-side mounted glare shield Large size Bronze | 843654163888 | PND-07 |
| 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 Bronze | 843654158952 | QCV-37 |



Reversible Glare Shield
KT-ALED-GS-S2-KIT



Left-Side Glare Shield
KT-ALED-GS-S2-L-KIT



Right-Side Glare Shield
KT-ALED-GS-S2-R-KIT

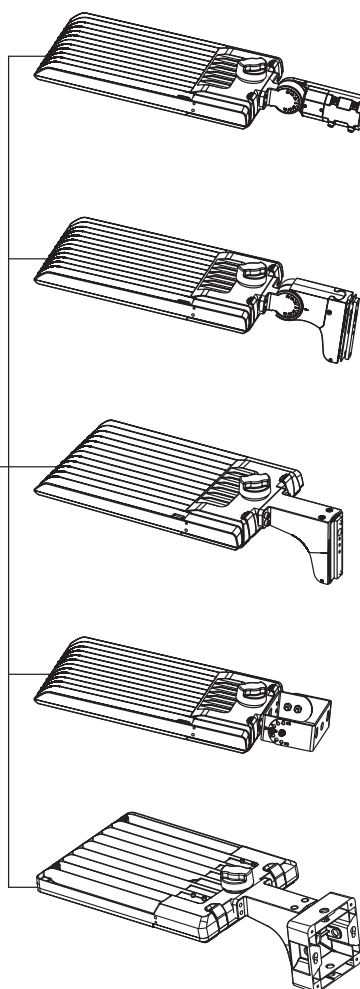
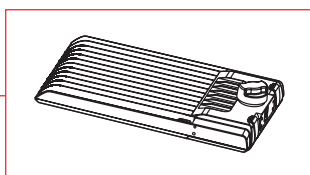
Note: Wall mount adaptor must be used with adjustable or fixed pole mounts

(Accessories continued on next page)

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

LED AREA LIGHT FIXTURES

ACCESSORIES CONTINUED (SOLD SEPARATELY)



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 |
|---|--|

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

| <input checked="" type="checkbox"/> | SUFFIX | CATALOG NUMBER |
|-------------------------------------|--------|----------------|
| <input checked="" type="checkbox"/> | /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.