

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)



10 YEAR
LIMITED WARRANTY

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 Types II and IV Available, Sold Separately	No	Bronze	250W MH
KT-ALED70-S2-OSA-NM-850-VDIM		5000K									
KT-ALED100-S2-OSA-NM-840-VDIM	100W	4000K	14,850	149 lm/W							320W MH
KT-ALED100-S2-OSA-NM-850-VDIM		5000K									
KT-ALED140-M2-OSA-NM-840-VDIM	140W	4000K	20,920	149 lm/W							400W 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.

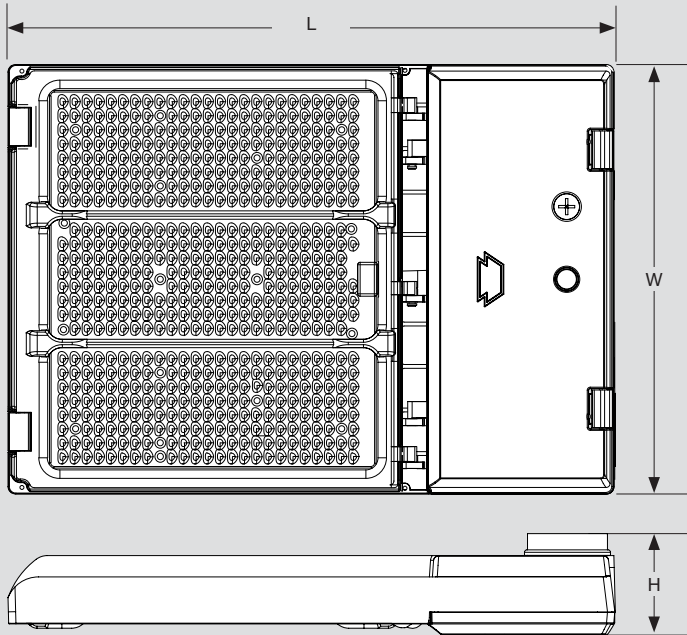
** Fixtures and mounts with alternate housing colors are available and made to order. Extended lead times apply. Please see catalog number breakdown for full ordering code details.

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

LED AREA LIGHT FIXTURES

PHYSICAL SPECIFICATIONS

LED AREA LIGHT FIXTURE



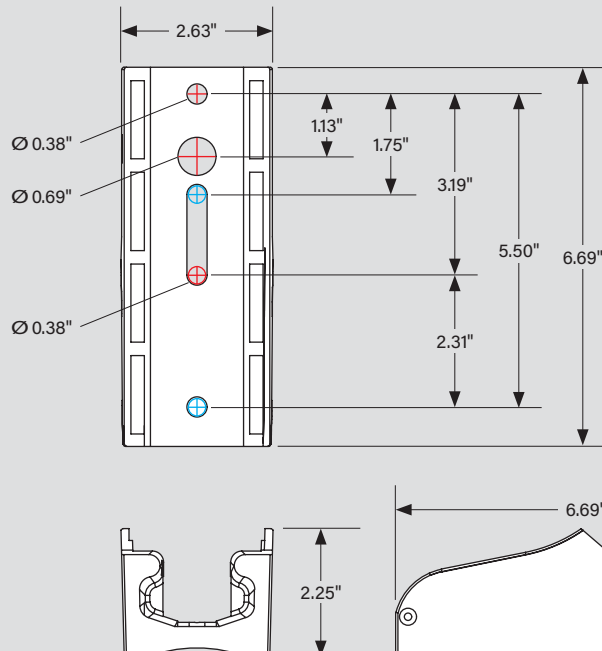
FIXTURE DIMENSIONS

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

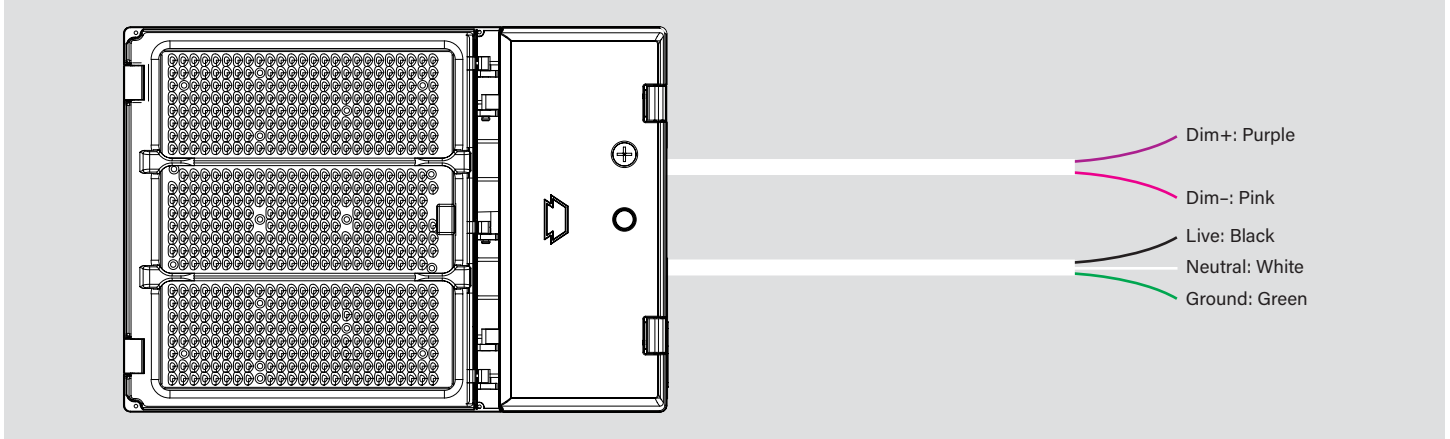
POLE MOUNT (ADJUSTABLE OR FIXED) DRILLING HOLES



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-ALED70-S2-OSA-NM-8XX-VDIM

Pole mounted at 20 ft

KT-ALED100-S2-OSA-NM-8XX-VDIM

Pole mounted at 25 ft

KT-ALED140-M2-OSA-NM-8XX-VDIM

Pole mounted at 30 ft

KT-ALED210-L2-OSA-NM-8XX-VDIM

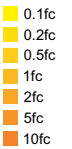
Pole mounted at 30 ft

KT-ALED290-L2-OSA-NM-8XX-VDIM

Pole mounted at 35 ft

TYPE III (3)

TYPE V (5)

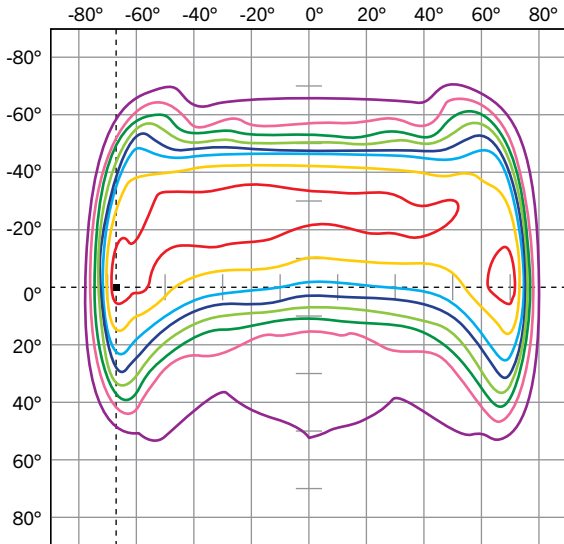


KT-ALEDXXX-X2-OSA-NM-8XX-VDIM

LED AREA LIGHT FIXTURES

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

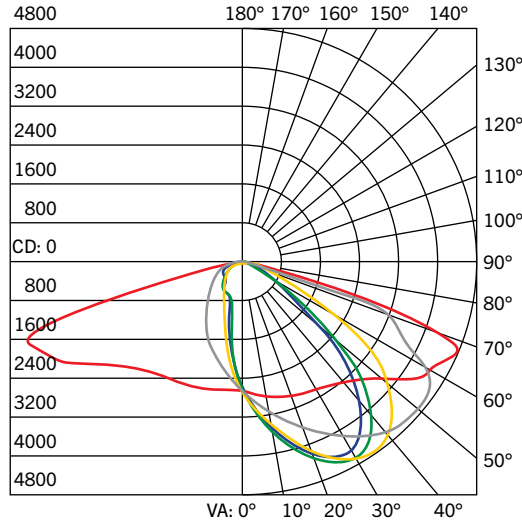
ISOCANDELA PLOT



--- Point of Max Cd: 4782.1

- Cd: 4291, 90%
- Cd: 3576, 75%
- Cd: 2861, 60%
- Cd: 2384, 50%
- Cd: 1907, 40%
- Cd: 1430, 30%
- Cd: 954, 20%
- Cd: 477, 10%

POLAR CANDELA DISTRIBUTION



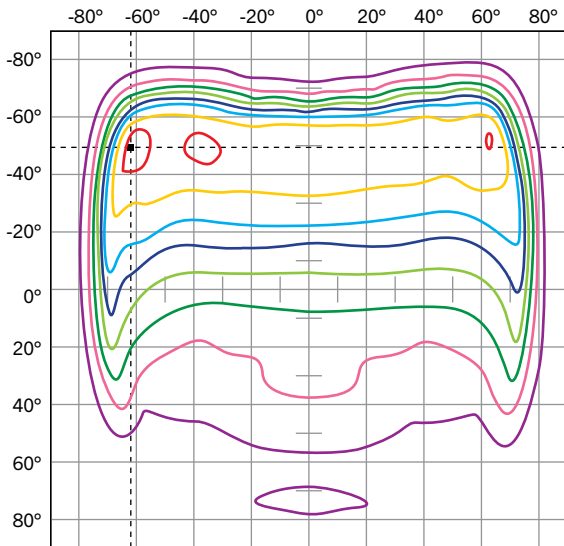
- : 0° H
- : 22.5° H
- : 67.5° H
- : 90° H
- : 45° H

FLUX DISTRIBUTION

Zone	Lumens	% Luminaire
Forward Light		
0°-30°	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

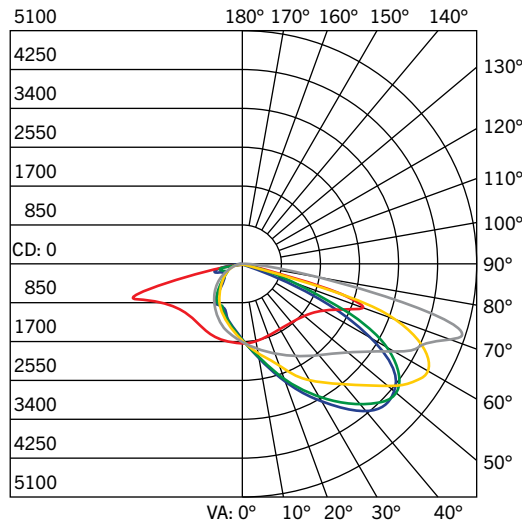
ISOCANDELA PLOT



--- Point of Max Cd: 5064.8

- Cd: 4432, 90%
- Cd: 3693, 75%
- Cd: 2955, 60%
- Cd: 2462, 50%
- Cd: 1970, 40%
- Cd: 1477, 30%
- Cd: 985, 20%
- Cd: 492, 10%

POLAR CANDELA DISTRIBUTION



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

FLUX DISTRIBUTION

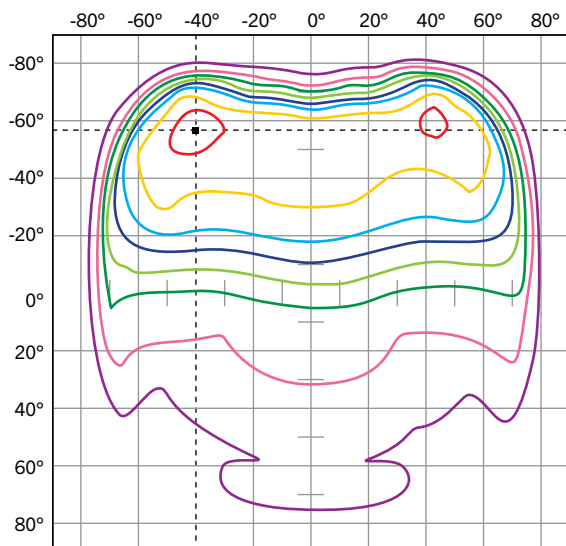
Zone	Lumens	% Luminaire
Forward Light		
0°-30°	993.3	10.2%
30°-60°	3899.2	39.9%
60°-80°	2569.2	26.3%
80°-90°	137.0	1.4%
Back Light		
0°-30°	548.8	5.6%
30°-60°	1003.7	10.3%
60°-80°	584.5	6.0%
80°-90°	45.4	0.5%
Up Light		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
Total	9781.1	100.0%
BUG Rating	B2-U0-G2	

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

LED AREA LIGHT FIXTURES

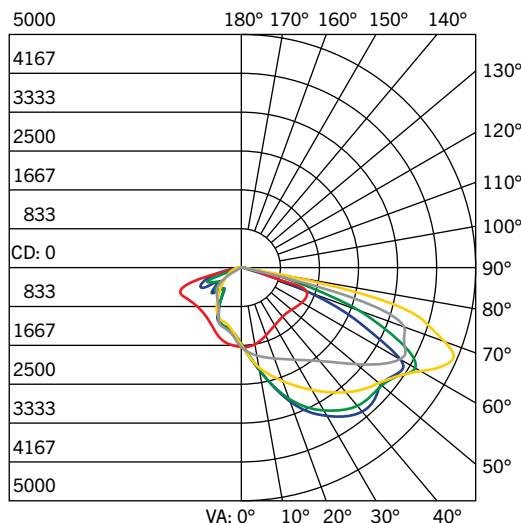
PHOTOMETRIC SPECIFICATIONS (TYPE IV [4]) KT-ALED70-S2-OSA-NM-8XX-VDIM

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



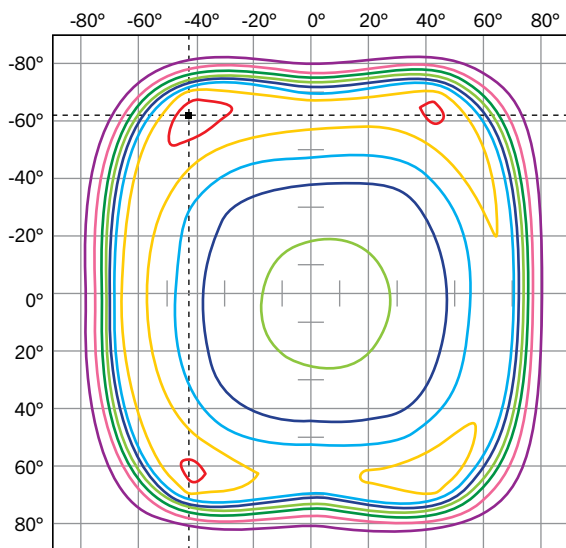
0° H : 22.5° H : 67.5° H
 90° H : 45° H

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	

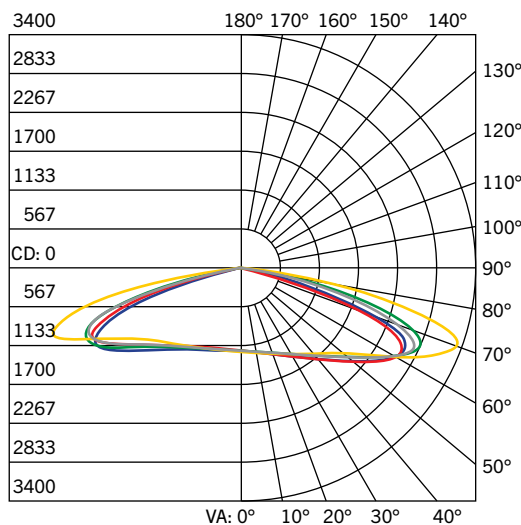
PHOTOMETRIC SPECIFICATIONS (TYPE V [5]) KT-ALED70-S2-OSA-NM-8XX-VDIM

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

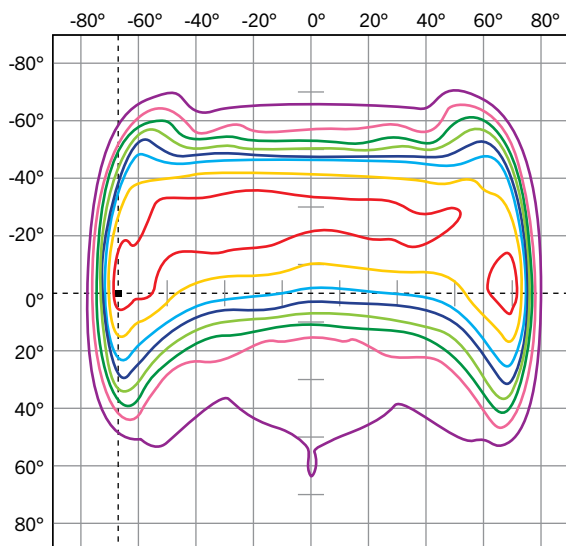
Zone	Lumens	% Luminaire
Forward Light		
0°-30°	556.8	5.7%
30°-60°	2140.6	22.0%
60°-80°	2217.3	22.8%
80°-90°	113.3	1.2%
Back Light		
0°-30°	541.7	5.6%
30°-60°	2021.6	20.7%
60°-80°	2054.5	21.1%
80°-90°	99.3	1.0%
Up Light		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
Total	9745.1	100.0%
BUG Rating	B3-U0-G2	

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

LED AREA LIGHT FIXTURES

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

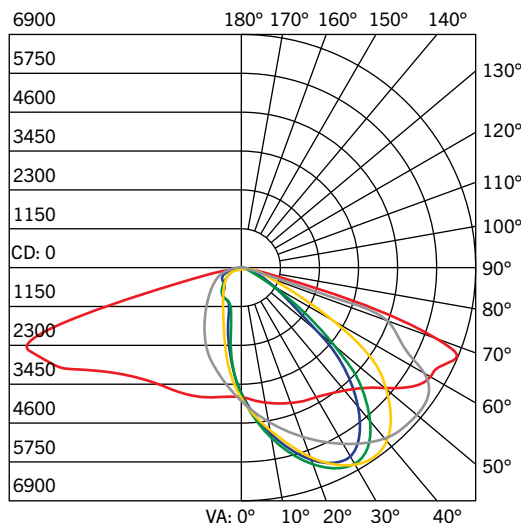
ISOCANDELA PLOT



--- Point of Max Cd: 6866.3

■ Cd: 6150, 90% ■ Cd: 2733, 40%
 ■ Cd: 5125, 75% ■ Cd: 2050, 30%
 ■ Cd: 4100, 60% ■ Cd: 1367, 20%
 ■ Cd: 3417, 50% ■ Cd: 683, 10%

POLAR CANDELA DISTRIBUTION



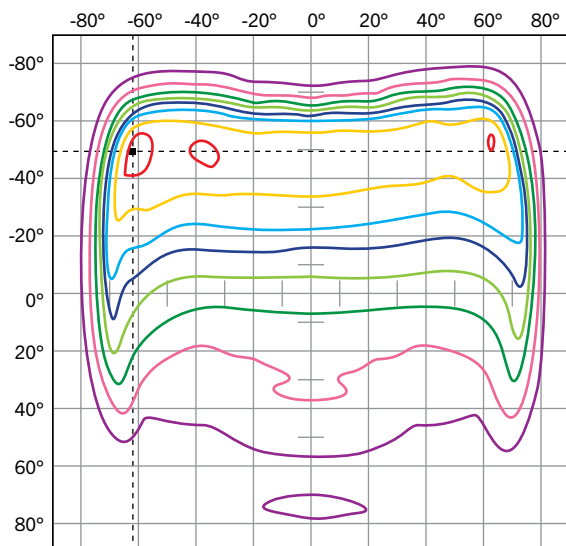
■ : 0° H ■ : 22.5° H ■ : 67.5° H
 ■ : 90° H ■ : 45° H

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

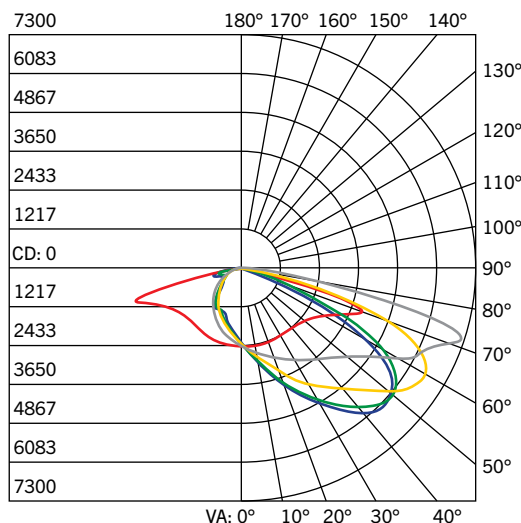
ISOCANDELA PLOT



--- Point of Max Cd: 7254.7

■ Cd: 6384, 90% ■ Cd: 2837, 40%
 ■ Cd: 5320, 75% ■ Cd: 2128, 30%
 ■ Cd: 4256, 60% ■ Cd: 1419, 20%
 ■ Cd: 3547, 50% ■ Cd: 709, 10%

POLAR CANDELA DISTRIBUTION



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

FLUX DISTRIBUTION

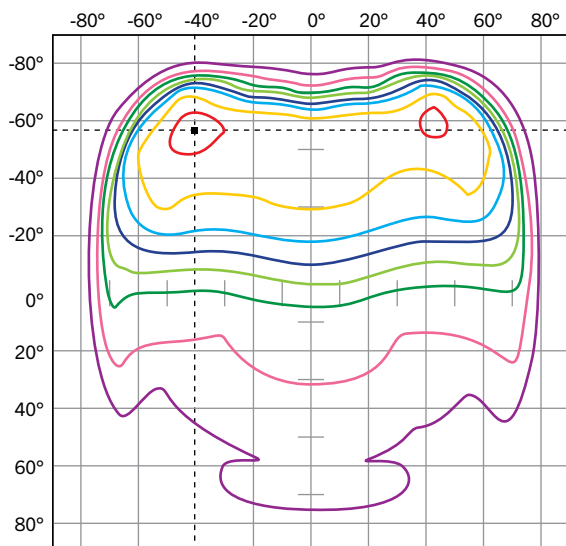
Zone	Lumens	% Luminaire
Forward Light		
0°-30°	1415.4	10.2%
30°-60°	5521.2	39.7%
60°-80°	3645.2	26.2%
80°-90°	197.9	1.4%
Back Light		
0°-30°	779.3	5.6%
30°-60°	1426.2	10.3%
60°-80°	835.7	6.0%
80°-90°	70.3	0.5%
Up Light		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
Total	13891.2	100.0%
BUG Rating	B2-U0-G2	

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

LED AREA LIGHT FIXTURES

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

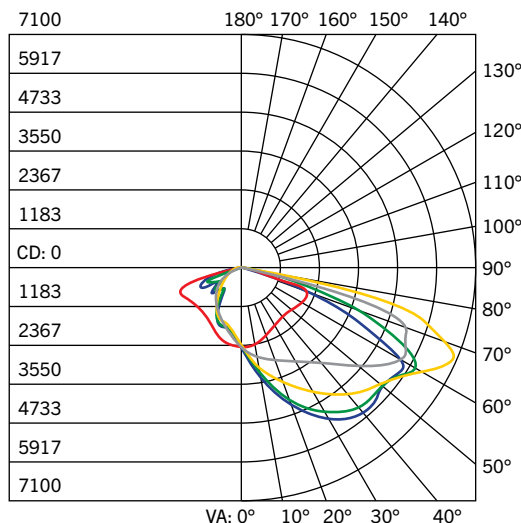
ISOCANDELA PLOT



--- 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



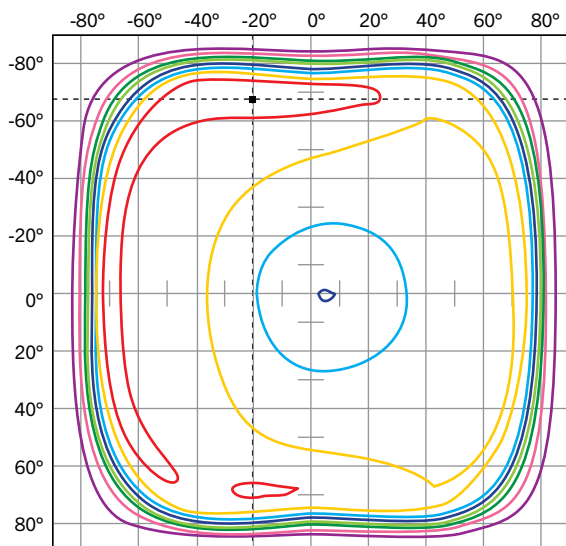
■ : 0° H
 ■ : 22.5° H
 ■ : 67.5° H
 ■ : 90° H
 ■ : 45° H

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

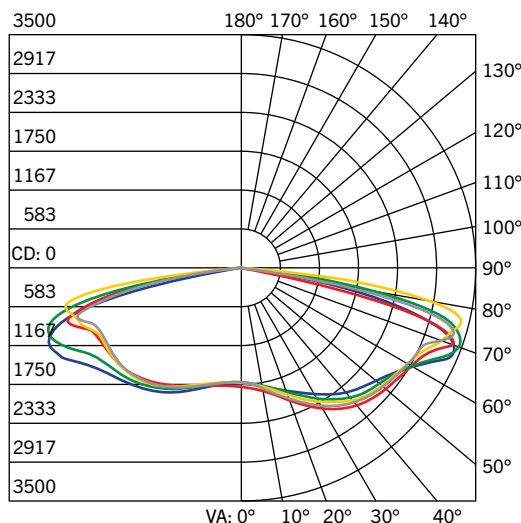
ISOCANDELA PLOT



--- 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

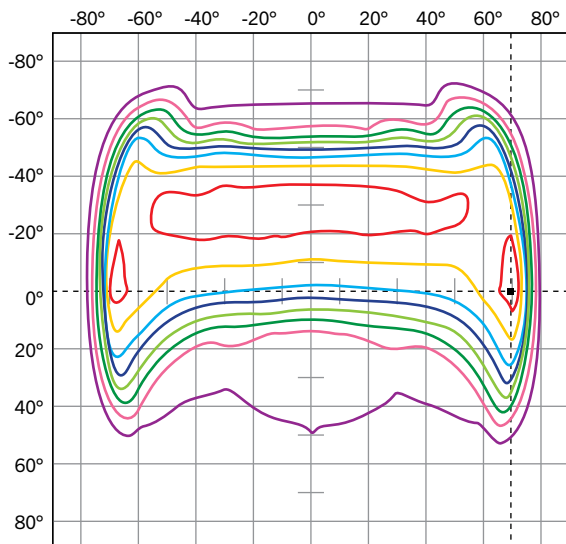
Zone	Lumens	% Luminaire
Forward Light		
0°-30°	840.8	6.1%
30°-60°	2898.0	21.0%
60°-80°	2914.5	21.2%
80°-90°	368.2	2.7%
Back Light		
0°-30°	831.8	6.0%
30°-60°	2836.9	20.6%
60°-80°	2777.9	20.2%
80°-90°	300.2	2.2%
Up Light		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
Total	13768.3	100.0%
BUG Rating	B4-U0-G3	

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

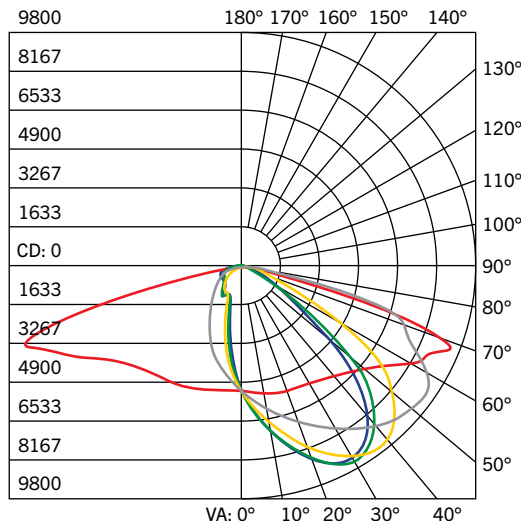
LED AREA LIGHT FIXTURES

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

ISOCANDELA PLOT



POLAR CANDELA DISTRIBUTION

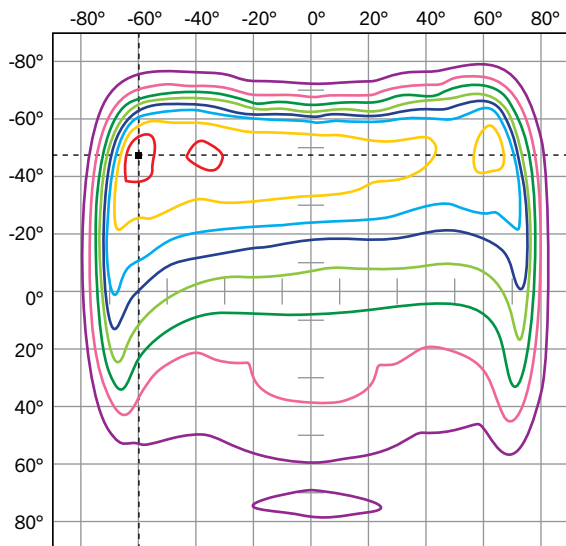


FLUX DISTRIBUTION

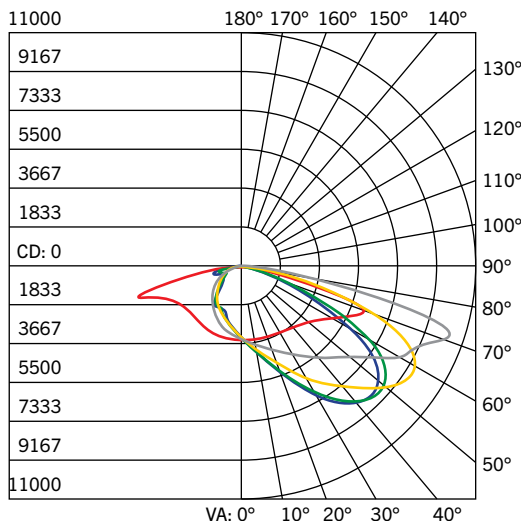
Zone	Lumens	% Luminaire
Forward Light		
0°-30°	3186.7	16.1%
30°-60°	8489.0	42.9%
60°-80°	3168.5	16.0%
80°-90°	93.8	0.5%
Back Light		
0°-30°	1190.4	6.0%
30°-60°	2131	10.8%
60°-80°	1450.0	7.3%
80°-90°	66.9	0.3%
Up Light		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
Total	19777.0	100.0%
BUG Rating	B3-U0-G3	

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

ISOCANDELA PLOT



POLAR CANDELA DISTRIBUTION



FLUX DISTRIBUTION

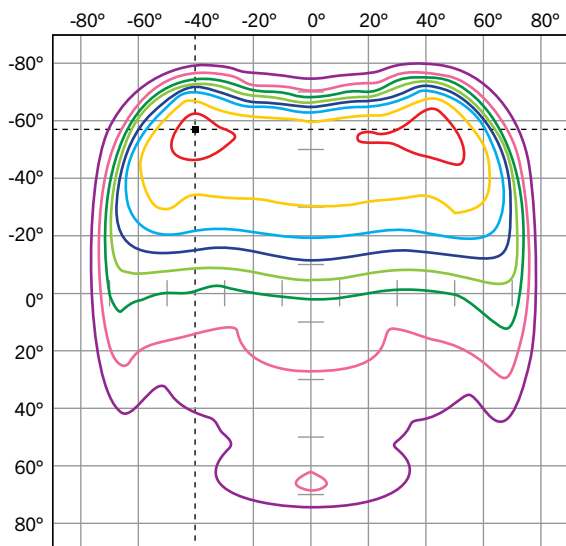
Zone	Lumens	% Luminaire
Forward Light		
0°-30°	1987.8	10.0%
30°-60°	7930.7	39.8%
60°-80°	4932.6	24.8%
80°-90°	287.8	1.4%
Back Light		
0°-30°	1155.2	5.8%
30°-60°	2197.3	11.0%
60°-80°	1305.0	6.6%
80°-90°	122.1	0.6%
Up Light		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
Total	19918.5	100.0%
BUG Rating	B3-U0-G3	

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

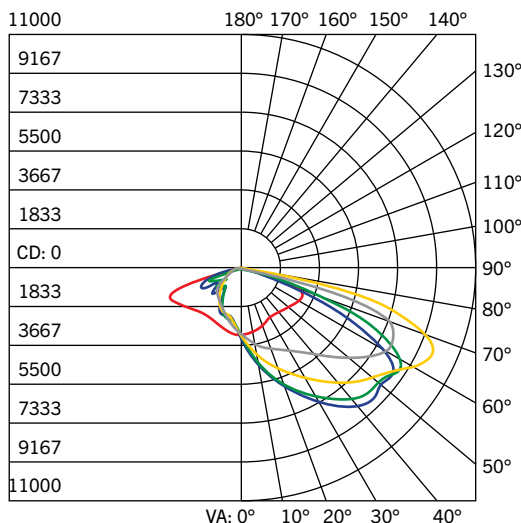
LED AREA LIGHT FIXTURES

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

ISOCANDELA PLOT



POLAR CANDELA DISTRIBUTION

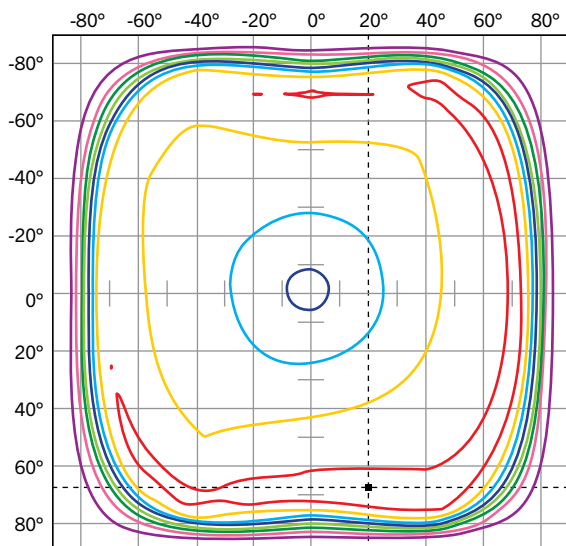


FLUX DISTRIBUTION

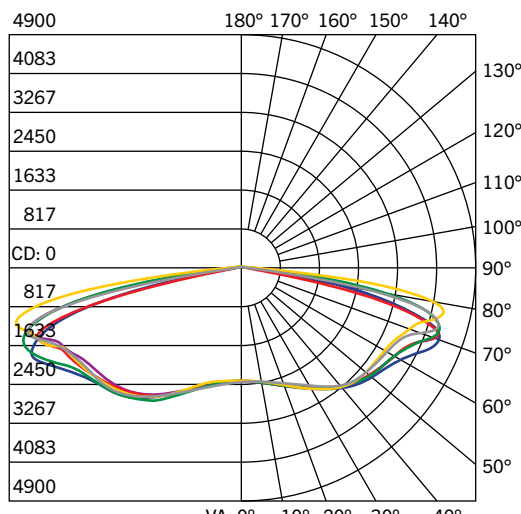
Zone	Lumens	% Luminaire
Forward Light		
0°-30°	2060.6	10.3%
30°-60°	8129.9	40.7%
60°-80°	5588.9	28.0%
80°-90°	185.5	0.9%
Back Light		
0°-30°	1006.7	5.0%
30°-60°	1807.9	9.1%
60°-80°	1112.2	5.6%
80°-90°	59.6	0.3%
Up Light		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
Total	19951.3	100.0%
BUG Rating	B3-U0-G3	

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

ISOCANDELA PLOT



POLAR CANDELA DISTRIBUTION



FLUX DISTRIBUTION

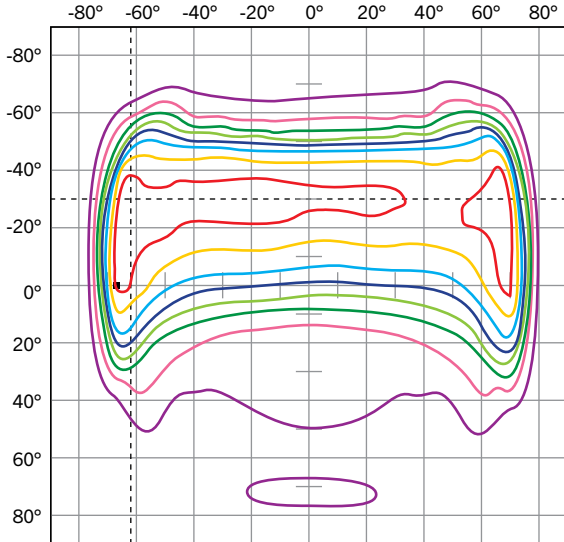
Zone	Lumens	% Luminaire
Forward Light		
0°-30°	1132.6	5.7%
30°-60°	3946.2	20.0%
60°-80°	4046.6	20.5%
80°-90°	584.7	3.0%
Back Light		
0°-30°	1166.4	5.9%
30°-60°	4139.8	20.9%
60°-80°	4238.8	21.4%
80°-90°	522.6	2.6%
Up Light		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
Total	19777.7	100.0%
BUG Rating	B4-U0-G4	

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

LED AREA LIGHT FIXTURES

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

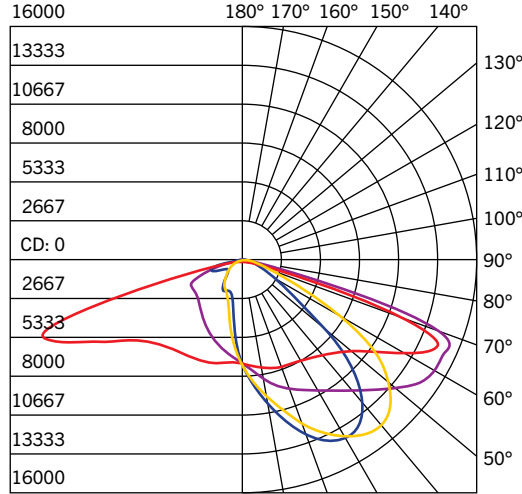
ISOCANDELA PLOT



--- Point of Max Cd: 15468.9

■ Cd: 13885, 90% ■ Cd: 6171, 40%
 ■ Cd: 11571, 75% ■ Cd: 4628, 30%
 ■ Cd: 9257, 60% ■ Cd: 3086, 20%
 ■ Cd: 7714, 50% ■ Cd: 1543, 10%

POLAR CANDELA DISTRIBUTION



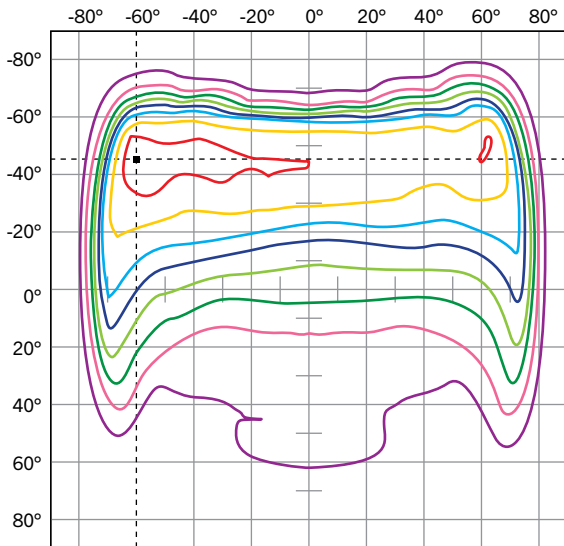
■ : Max CD: 75° H
 ■ : 0° H ■ : 45° H
 ■ : 90° H

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

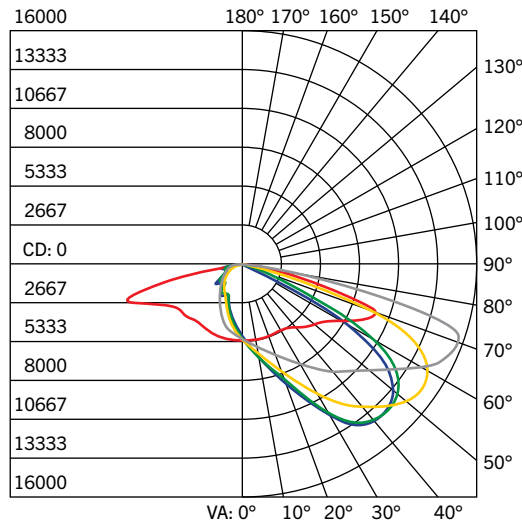
ISOCANDELA PLOT



--- Point of Max Cd: 15720.3

■ Cd: 14078, 90% ■ Cd: 6257, 40%
 ■ Cd: 11732, 75% ■ Cd: 4693, 30%
 ■ Cd: 9385, 60% ■ Cd: 3128, 20%
 ■ Cd: 7821, 50% ■ Cd: 1564, 10%

POLAR CANDELA DISTRIBUTION



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

FLUX DISTRIBUTION

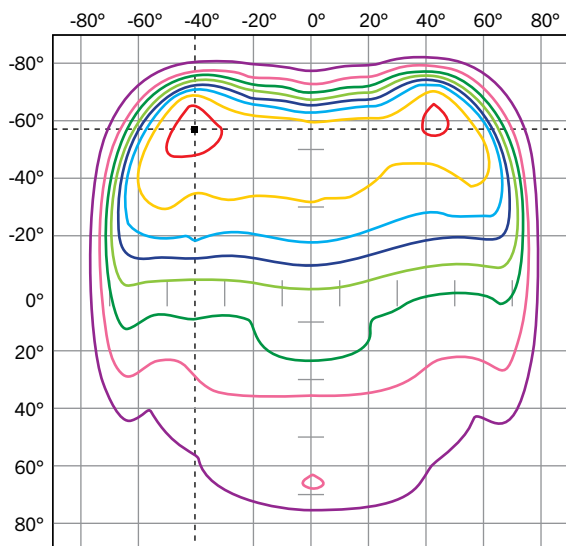
Zone	Lumens	% Luminaire
Forward Light		
0°-30°	3146.5	10.4%
30°-60°	13036.4	43.1%
60°-80°	7415.8	24.5%
80°-90°	389.8	1.3%
Back Light		
0°-30°	1490.2	4.9%
30°-60°	2770.5	9.2%
60°-80°	1779.6	5.9%
80°-90°	184.0	0.6%
Up Light		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
Total	30212.8	100.0%
BUG Rating	B3-U0-G3	

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

LED AREA LIGHT FIXTURES

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

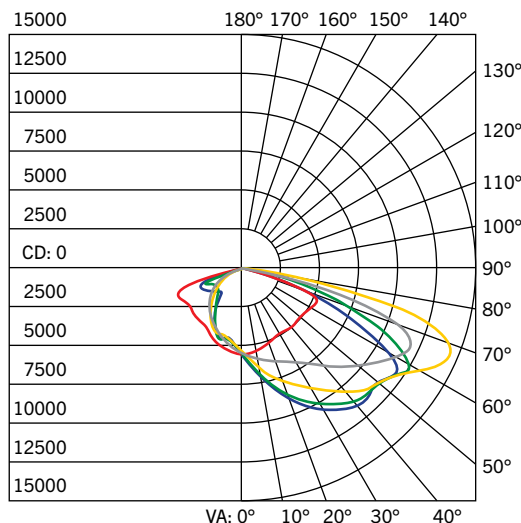
ISOCANDELA PLOT



--- Point of Max Cd: 14317.6

- Cd: 12808, 90%
- Cd: 10674, 75%
- Cd: 8539, 60%
- Cd: 7116, 50%
- Cd: 5693, 40%
- Cd: 4269, 30%
- Cd: 2846, 20%
- Cd: 1423, 10%

POLAR CANDELA DISTRIBUTION



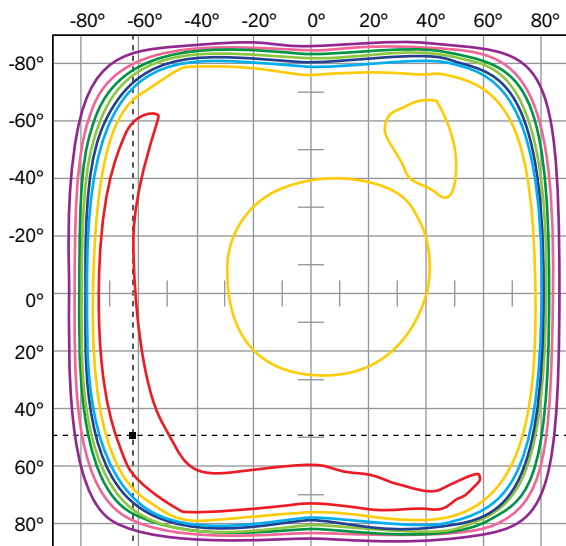
■ : 0° H ■ : 22.5° H ■ : 67.5° H
■ : 90° H ■ : 45° H

FLUX DISTRIBUTION

Zone	Lumens	% Luminaire
Forward Light		
0°-30°	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

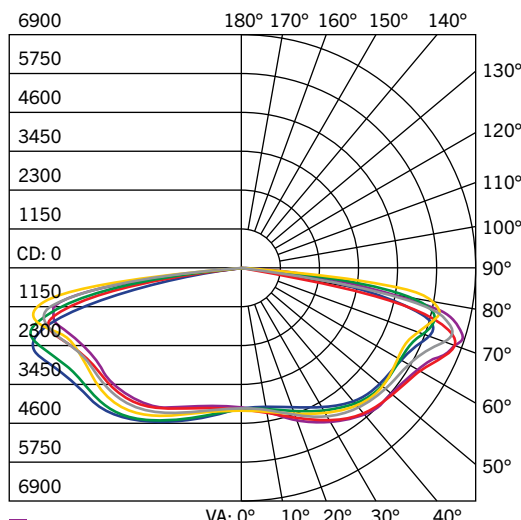
ISOCANDELA PLOT



--- Point of Max Cd: 6819.6

- Cd: 6123, 90%
- Cd: 5102, 75%
- Cd: 4082, 60%
- Cd: 3401, 50%
- Cd: 2721, 40%
- Cd: 2041, 30%
- Cd: 1361, 20%
- Cd: 680, 10%

POLAR CANDELA DISTRIBUTION



■ : Max Cd: 112.5° H
■ : 0° H ■ : 22.5° H ■ : 67.5° H
■ : 90° H ■ : 45° H

FLUX DISTRIBUTION

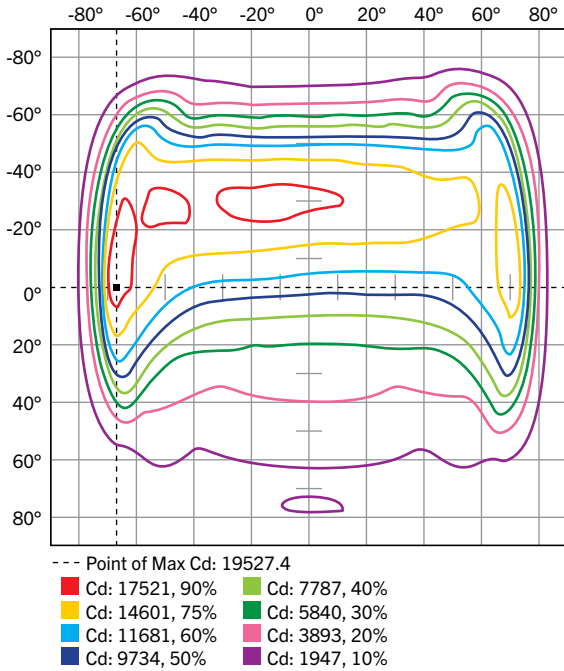
Zone	Lumens	% Luminaire
Forward Light		
0°-30°	1884.2	6.2%
30°-60°	5994.5	19.8%
60°-80°	5666.7	18.8%
80°-90°	1182.9	3.9%
Back Light		
0°-30°	1972.8	6.5%
30°-60°	6415.5	21.2%
60°-80°	6150.1	20.4%
80°-90°	941.3	3.1
Up Light		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
Total	30208.0	100.0%
BUG Rating	B5-U0-G5	

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

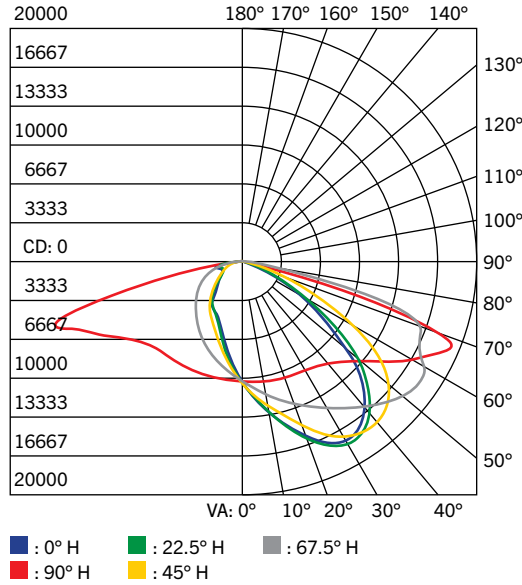
LED AREA LIGHT FIXTURES

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

ISOCANDELA PLOT



POLAR CANDELA DISTRIBUTION

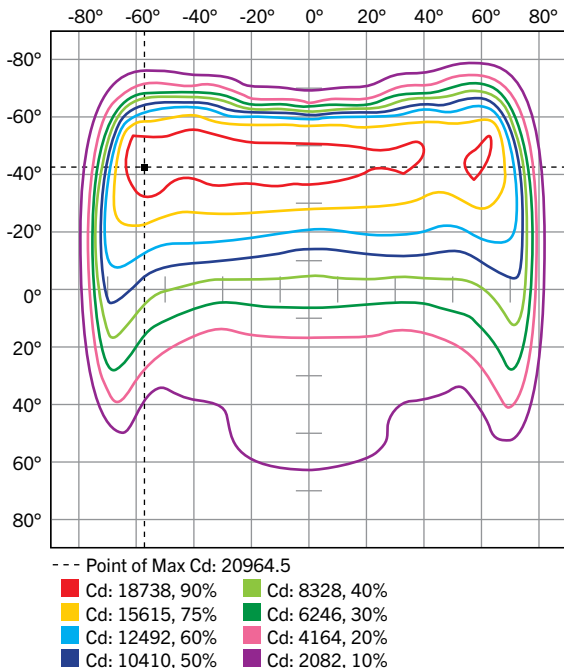


FLUX DISTRIBUTION

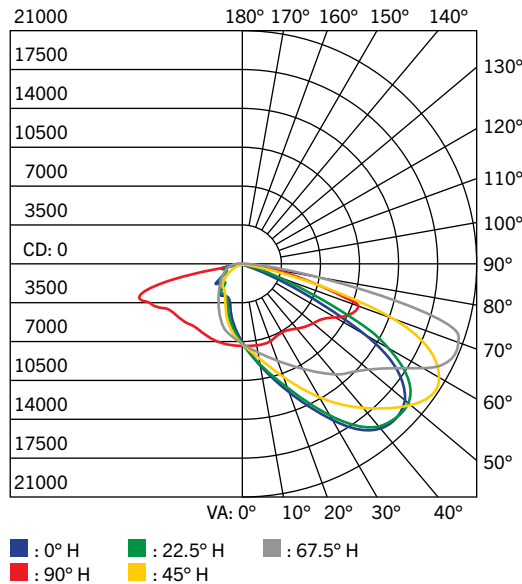
Zone	Lumens	% Luminaire
Forward Light		
0°-30°	5916.5	13.7%
30°-60°	16643.8	38.6%
60°-80°	7364.7	17.1%
80°-90°	369.0	0.9%
Back Light		
0°-30°	3108.6	7.2%
30°-60°	5846.9	13.6%
60°-80°	3535.4	8.2%
80°-90°	291.8	0.7%
Up Light		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
Total	43076.7	100.0%
BUG Rating	B4-U0-G4	

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

ISOCANDELA PLOT



POLAR CANDELA DISTRIBUTION



FLUX DISTRIBUTION

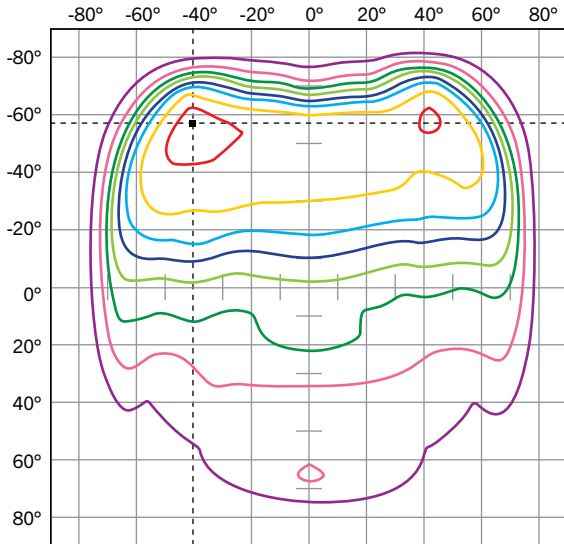
Zone	Lumens	% Luminaire
Forward Light		
0°-30°	4492.4	10.7%
30°-60°	18088.3	43.2%
60°-80°	10354.3	24.7%
80°-90°	545.1	1.3%
Back Light		
0°-30°	2089.8	5.0%
30°-60°	3815.5	9.1%
60°-80°	2270.4	5.4%
80°-90°	222.0	0.5%
Up Light		
90°-100°	0.0	0.0%
100°-180°	0.0	0.0%
Total	41877.8	100.0%
BUG Rating	B3-U0-G4	

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

LED AREA LIGHT FIXTURES

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

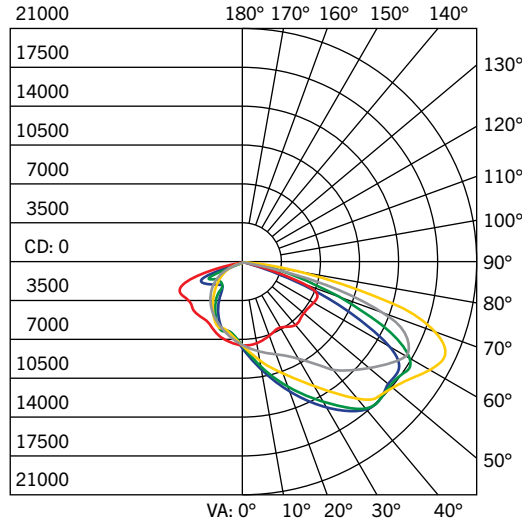
ISOCANDELA PLOT



--- 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



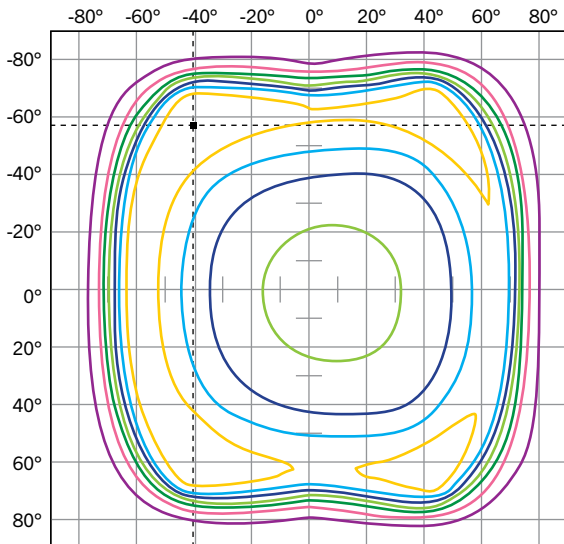
- : 0° H
- : 22.5° H
- : 67.5° H
- : 90° H
- : 45° H

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

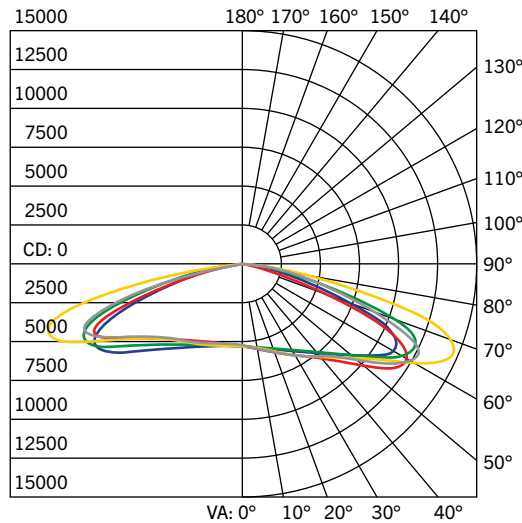
ISOCANDELA PLOT



--- 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 (1.2*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 (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.
Adjustable Pole Mount 	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.
Slip Fitter Mount 	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.
Slip Fitter Mount 	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.
Slip Fitter Mount 	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

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

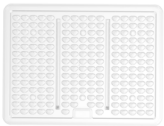
LED AREA LIGHT FIXTURES

ACCESSORIES CONTINUED (SOLD SEPARATELY)

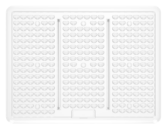
LENSES

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-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

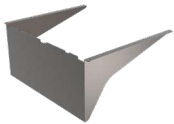


Lenses
KT-ALED-LENS-L2-X-KIT

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)



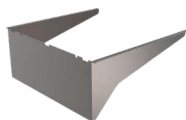
Reversible Glare Shield
KT-ALED-GS-M2-KIT



Left-Side Glare Shield
KT-ALED-GS-M2-L-KIT



Right-Side Glare Shield
KT-ALED-GS-M2-R-KIT



Reversible Glare Shield
KT-ALED-GS-L2-KIT



Left-Side Glare Shield
KT-ALED-GS-L2-L-KIT



Right-Side Glare Shield
KT-ALED-GS-L2-R-KIT



Slipfitter Mount
KT-ALED-SF-1-KIT



Adjustable Pole Mount
KT-ALED-PMA-1-KIT



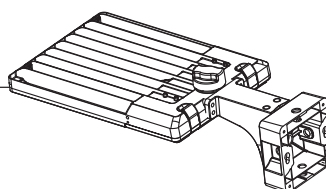
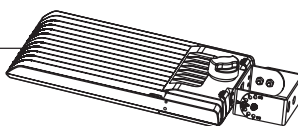
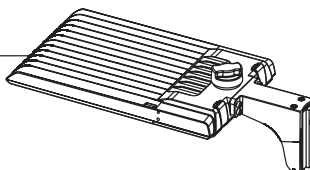
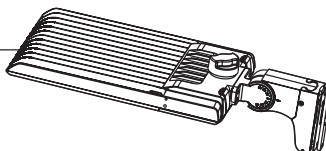
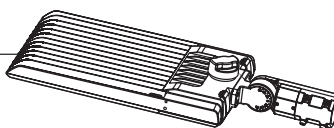
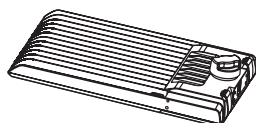
Fixed Pole Mount
KT-ALED-PM-1-KIT



Trunnion Mount
KT-ALED-TM-1-KIT



Wall Mount Kit
KT-ALED-WM-1-KIT



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


XFIT
opticswap

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	XPB-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
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1 Keystone Technologies	4 Wattage	5 Size / Shape	7 Optic Swap Designation	11 CCT
2 Area Light	70 70W	S Small	A Type III lens installed, Type V lens included	40 4000K
3 LED Technology	100 100W	M Medium		50 5000K
4 Wattage	140 140W	L Large		
5 Size / Shape	210 210W			
6 Style / Design Designation	290 290W			
7 Optic Swap				
8 Optic Swap Designation				
9 No Mounting				
10 80 CRI				
11 CCT				
12 0-10V Dimming				
13 Housing Color*				

* 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.