

Dialight



SafeSite[®] LED Area Light - ATEX / IECEx
for Outdoor Industrial Applications



On when it matters most.

Products and solutions that protect your business





Features & Benefits

- 5 year warranty
- L70 rated for >100,000 hours @ 25°C ambient
- Low power consumption
- Instant on/off
- Mercury free
- No UV or IR
- Resistant to shock and vibration
- Superior colour rendition index compared to HPS, LPS, MV
- Temperature compensation technology for longer life

Application

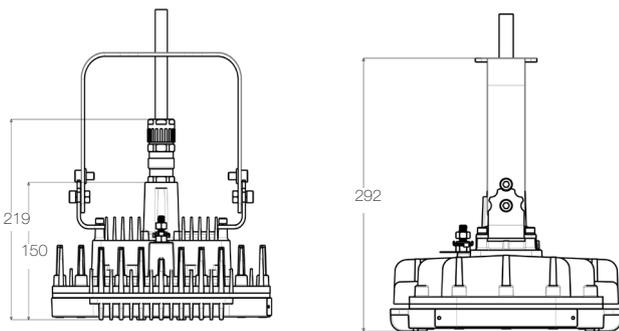
The Dialight SafeSite® LED Area Light represents the future of energy efficient facility illumination for hazardous areas worldwide. The ATEX / IECEx area lighting fixture consumes at least 50% less energy compared to traditional HID light sources, while reducing maintenance and carbon emissions. This light incorporates both cutting edge LED technology along with proprietary optics to achieve area lighting comparable with other traditional light sources.

SafeSite LED Area Light - ATEX / IECEx

Zone 1, 21 Models



Patent pending



Dimensions in mm

Certifications & Ratings

- Ex d e IIC T4 Gb (Ta = -40°C to +65°C)
- Ex d e IIC T5 Gb (Ta = -40°C to +42°C)
- Ex t IIIIC T135°C Db IP 6X (Ta = -40°C to +65°C)
- Ex t IIIIC T100°C Db IP 6X (Ta = -40°C to +42°C)
- Certificate numbers: IECEx SIR 11.0156
SIRA 11ATEX1357
- ATEX Zones 1, 21
- ATEX Zones 2, 22
- ABS Design Assessed: #13-HS1043210C-PDA
- IP66
- IK08 impact rating

Mechanical Information:

Fixture weight:	9.53kg (21lb)
Shipping weight:	10.43kg (23lb)
Mounting:	Supplied with stirrup mounting bracket
Wiring options:	Factory installed 3 metre 3 core armored cable. 5 metre available, consult factory

Electrical Specifications:

Operating voltage:	100 – 277 VAC, 50/60 Hz
Power consumption:	See table
Operating temp:	-40°C to +65°C (40°F to +149°F)
Surge protection:	1 KV line to line 2 KV line to ground
THD:	<20%
Power factor:	> 0.9

Construction:

Housing:	Copper free aluminum (A360)
Finish:	Polyester / epoxy powder coat gray RAL 7040 for superior corrosion resistance
Lens:	Toughened glass

Photometric Information:

CRI:	75
CCT:	5000K (cool white) 4000K (neutral white)
Optics:	180° distribution 360° distribution
IES files:	available at www.dialight.com

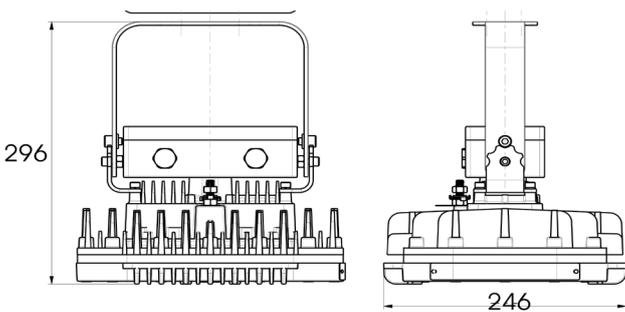
All values typical unless otherwise stated (tolerance +/- 10%)

SafeSite LED Area Light - ATEX / IECEx

Zone 1, 21 - Junction Box Models



Patent pending



Certifications & Ratings

- Ex d e IIC T4 Gb (Ta = -40°C to +65°C)
- Ex d e IIC T5 Gb (Ta = -40°C to +42°C)
- Ex t IIC T135°C Db IP 6X (Ta = -40°C to +65°C)
- Ex t IIC T100°C Db IP 6X (Ta = -40°C to +42°C)
- Certificate numbers:
IECEX SIR 11.0156
SIRA 11ATEX1357
- ATEX Zones 1, 21
- ATEX Zones 2, 22
- IP66
- IK08 impact rating

Mechanical Information:

Fixture weight:	9.07kg (20lb)
Shipping weight:	9.98kg (22lb)
Mounting:	Supplied with stirrup mounting bracket
Wiring options:	Factory installed junction box with terminal block. 2 x 20mm blank entries

Electrical Specifications:

Operating voltage:	100 – 277 VAC, 50/60 Hz
Power consumption:	See table
Operating temp:	-40°C to +65°C (40°F to +149°F)
Surge protection:	1 KV line to line 2 KV line to ground
THD:	<20%
Power factor:	> 0.9

Construction:

Housing:	Copper free aluminum (A360)
Finish:	Polyester / epoxy powder coat gray RAL 7040 for superior corrosion resistance
Lens:	Toughened glass

Photometric Information:

CRI:	75
CCT:	5000K (cool white) 4000K (neutral white)
Optics:	180°C distribution 360°C distribution
IES files:	available at www.dialight.com

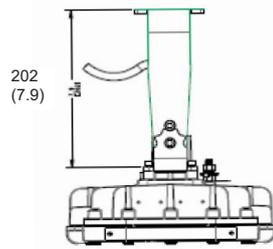
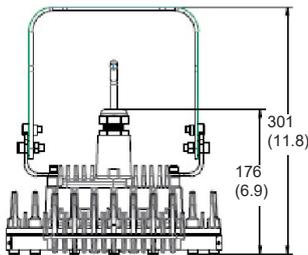
All values typical unless otherwise stated (tolerance +/- 10%)

SafeSite LED Area Light - ATEX / IECEx

Zone 2, 22



Patent pending



Dimensions in mm

Certifications & Ratings

- Ex nA nC IIC T4 Gc
- Ex tc IIC T130°C Dc (Ta = -40°C to +65°C)
- Certificate numbers: IECEx SIR 14.0042X SIRA 12ATEX4097X
- ATEX Zones 2, 22
- IP66

Mechanical Information:

Fixture weight:	7.5kg (16.5lb)
Shipping weight:	8.16kg (18.5lb)
Mounting:	Supplied with stirrup mounting bracket
Wiring options:	Factory installed 3 metre 3 core armored cable. 5 metre available, consult factory

Electrical Specifications:

Operating voltage:	100 – 277 VAC, 50/60 Hz
Power consumption:	See table
Operating temp:	-40°C to +65°C (40°F to +149°F)
Surge protection:	1 KV line to line 2 KV line to ground
THD:	<20%
Power factor:	> 0.9

Construction:

Housing:	Copper free aluminum (A360)
Finish:	Polyester / epoxy powder coat gray RAL 7040 for superior corrosion resistance
Lens:	Toughened glass

Photometric Information:

CRI:	75
CCT:	5000K (cool white) 4000K (neutral white)
Optics:	180°C distribution 360°C distribution
IES files:	available at www.dialight.com

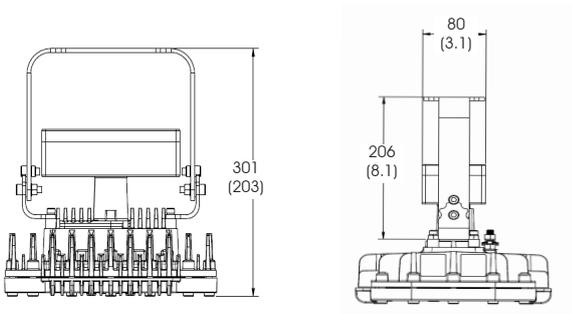
All values typical unless otherwise stated (tolerance +/- 10%)

SafeSite LED Area Light - ATEX / IECEx

Zone 2, 22 - Junction Box Models



Patent pending



Certifications & Ratings

- Ex nA nC IIC T4 Gc
- Ex tc IIIC T130°C Dc (Ta = -40°C to +65°C)
- Certificate numbers: IECEx SIR 14.0042X SIRA 12ATEX4097X
- ATEX Zones 2, 22
- IP66

Mechanical Information:

- Fixture weight:** 7.67kg (16.9lb)
- Shipping weight:** 8.57kg (18.9lb)
- Mounting:** Supplied with stirrup mounting bracket
- Wiring options:** Factory installed junction box with terminal block. 2 x 20mm blank entries

Electrical Specifications:

- Operating voltage:** 100 – 277 VAC, 50/60 Hz
- Power consumption:** See table
- Operating temp:** -40°C to +65°C (40°F to +149°F)
- Surge protection:** 1 KV line to line
2 KV line to ground
- THD:** <20%
- Power factor:** > 0.9

Construction:

- Housing:** Copper free aluminum (A360)
- Finish:** Polyester / epoxy powder coat gray RAL 7040 for superior corrosion resistance
- Lens:** Toughened glass

Photometric Information:

- CRI:** 75
- CCT:** 5000K (cool white)
4000K (neutral white)
- Optics:** 180°C distribution
360°C distribution
- IES files:** available at www.dialight.com

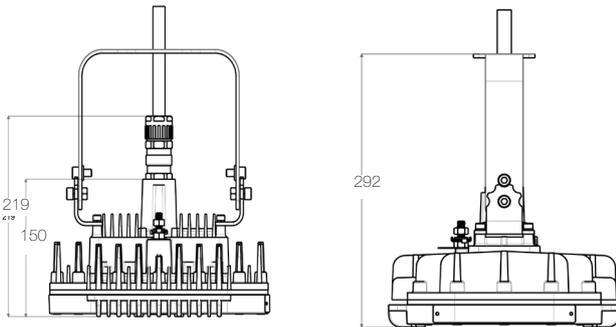
All values typical unless otherwise stated (tolerance +/- 10%)

SafeSite LED Area Light - ATEX / IECEx

Amber Model



Patent pending



Dimensions in mm

Certifications & Ratings

- Ex d e IIC T4 Gb (Ta = -40°C to +65°C)
- Ex d e IIC T5 Gb (Ta = -40°C to +42°C)
- Ex t III C T135°C Db IP 6X (Ta = -40°C to +65°C)
- Ex t III C T100°C Db IP 6X (Ta = -40°C to +42°C)
- Certificate numbers: IECEx SIR 11.0156 SIRA 11ATEX1357
- ATEX Zones 1, 21
- ATEX Zones 2, 22
- ABS Design Assessed: #13-HS1043210C-PDA
- IP66
- IK08 impact rating

Mechanical Information:

Fixture weight:	9.53kg (21lb)
Shipping weight:	10.43kg (23lb)
Mounting:	Supplied with stirrup mounting bracket
Wiring options:	Factory installed 3 metre 3 core armored cable. 5 metre available, consult factory

Electrical Specifications:

Operating voltage:	100 – 277 VAC, 50/60 Hz
Power consumption:	See table
Operating temp:	-40°C to +65°C (40°F to +149°F)
Surge protection:	1 KV line to line 2 KV line to ground
THD:	<20%
Power factor:	> 0.9

Construction:

Housing:	Copper free aluminum (A360)
Finish:	Polyester / epoxy powder coat gray RAL 7040 for superior corrosion resistance
Lens:	Toughened glass

Photometric Information:

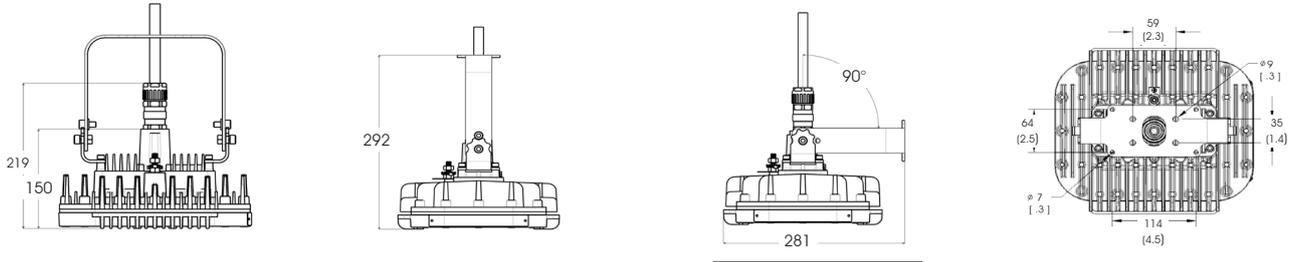
Peak Wavelength:	590nm
Optics:	180°C distribution 360°C distribution
IES files:	available at www.dialight.com

All values typical unless otherwise stated (tolerance +/- 10%)

SafeSite LED Area Light - ATEX / IECEx

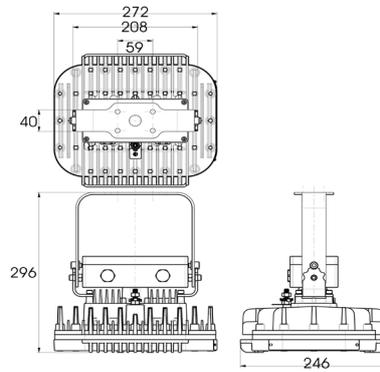
Dimensions with Stirrup Bracket

Zone 1 Standard and Amber Model

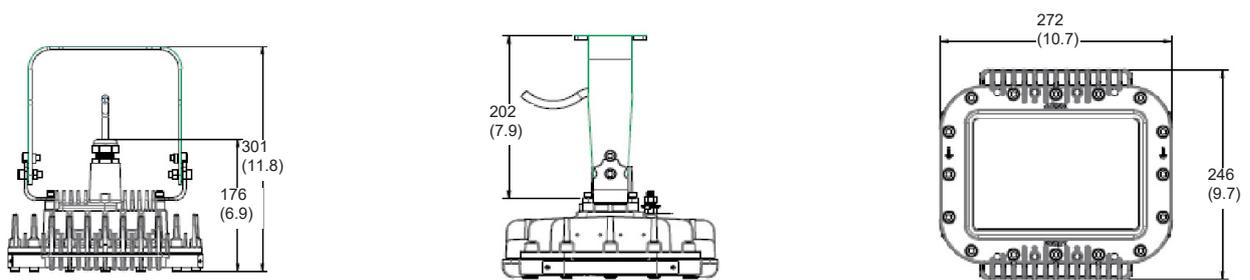


Zone 1 with Junction Box

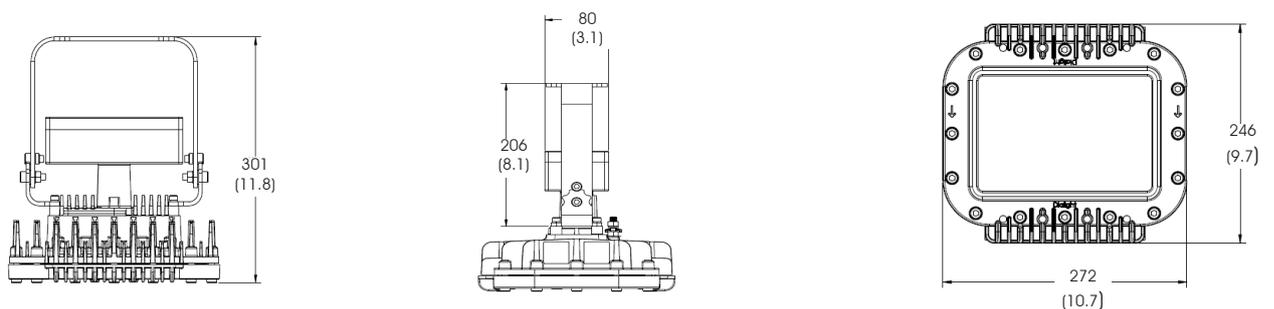
Junction Box



Zone 2



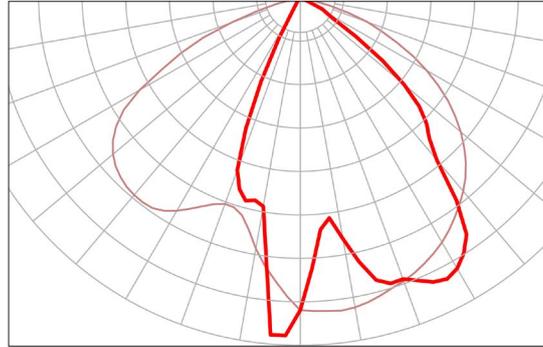
Zone 2 with Junction Box



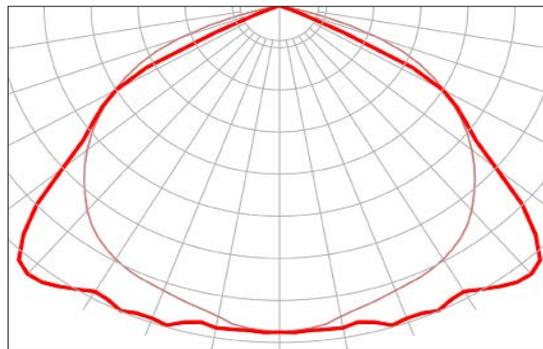
SafeSite LED Area Light - ATEX / IECEx

Light Distribution Pattern

180° light distribution



360° light distribution



SafeSite LED Area Light - ATEX / IECEx

Ordering Information

Part Number	Fixture Lumen	Wattage	lm/W	IP66	Voltage	Colour Temperature (CCT)	Lens	Light Distribution	Junction Box
IECEx / ATEX Zone 1, 21									
HZA9C2N	6,000	58	103	IP66	100 - 277 VAC	5000K (cool white)	Tempered glass	360°	
HZA8C2N	5,600	58	97	IP66	100 - 277 VAC	5000K (cool white)	Tempered glass	180°	
HZA5C2N	5,100	47	109	IP66	100 - 277 VAC	5000K (cool white)	Tempered glass	360°	
HZA4C2N	4,600	47	98	IP66	100 - 277 VAC	5000K (cool white)	Tempered glass	180°	
HZA3C2N	4,000	38	105	IP66	100 - 277 VAC	5000K (cool white)	Tempered glass	360°	
HZA2C2N	3,600	38	95	IP66	100 - 277 VAC	5000K (cool white)	Tempered glass	180°	
HZA1C2N	2,200	22	100	IP66	100 - 277 VAC	5000K (cool white)	Tempered glass	360°	
HZA0C2N	2,200	22	100	IP66	100 - 277 VAC	5000K (cool white)	Tempered glass	180°	
IECEx / ATEX Zone 1, 21 - Junction Box									
HZJA9C2N	6,000	58	103	IP66	100 - 277 VAC	5000K (cool white)	Tempered glass	360°	•
HZJA8C2N	5,600	58	97	IP66	100 - 277 VAC	5000K (cool white)	Tempered glass	180°	•
IECEx / ATEX Zone 2, 22									
HZB1C2N	2,500	22	114	IP66	100 - 277 VAC	5000K (cool white)	Tempered glass	360°	
HZB0C2N	2,000	22	91	IP66	100 - 277 VAC	5000K (cool white)	Tempered glass	180°	
IECEx / ATEX Zone 2, 22 - Junction Box									
HZJBFC2N	7,500	69	109	IP66	100 - 277 VAC	5000K (cool white)	Tempered glass	360°	•
HZJBEC2N	7,000	69	101	IP66	100 - 277 VAC	5000K (cool white)	Tempered glass	180°	•
HZJB9C2N	6,500	58	112	IP66	100 - 277 VAC	5000K (cool white)	Tempered glass	360°	•
HZJB8C2N	6,000	58	103	IP66	100 - 277 VAC	5000K (cool white)	Tempered glass	180°	•
HZJB5C2N	5,500	47	117	IP66	100 - 277 VAC	5000K (cool white)	Tempered glass	360°	•
HZJB4C2N	5,000	47	106	IP66	100 - 277 VAC	5000K (cool white)	Tempered glass	180°	•
HZJB3C2N	3,500	38	92	IP66	100 - 277 VAC	5000K (cool white)	Tempered glass	360°	•
HZJB2C2N	3,000	38	79	IP66	100 - 277 VAC	5000K (cool white)	Tempered glass	180°	•
HZJB1C2N	2,500	22	114	IP66	100 - 277 VAC	5000K (cool white)	Tempered glass	360°	•
HZJB0C2N	2,000	22	91	IP66	100 - 277 VAC	5000K (cool white)	Tempered glass	180°	•
ATEX / IECEx Zone 1, 21 - Amber Models									
HZA9A2N	3,700	58	64	IP66	100 - 277 VAC	Amber	Tempered glass	360°	
HZA8A2N	3,700	58	64	IP66	100 - 277 VAC	Amber	Tempered glass	180°	
HZA5A2N	3,000	47	64	IP66	100 - 277 VAC	Amber	Tempered glass	360°	
HZA4A2N	3,000	47	64	IP66	100 - 277 VAC	Amber	Tempered glass	180°	
HZA3A2N	2,300	38	61	IP66	100 - 277 VAC	Amber	Tempered glass	360°	
HZA2A2N	2,300	38	61	IP66	100 - 277 VAC	Amber	Tempered glass	180°	

All values typical unless otherwise stated, Lumen values are typical (tolerance +/- 10%).

180° optical pattern models are optimised for a 45° mounting angle
 Part numbers listed in the table at 5000K (cool white) are available in neutral. For neutral white (4000K) models replace the first **C** in the part code with an **N**. Ex: HZA2**C**2N becomes HZA2**N**2N. When changing to neutral white there is an approximate 7% drop in lumen output.

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