Dialight® LED Area Light

Technical Specification Sheet - CE

Vigilant® LED Area Light

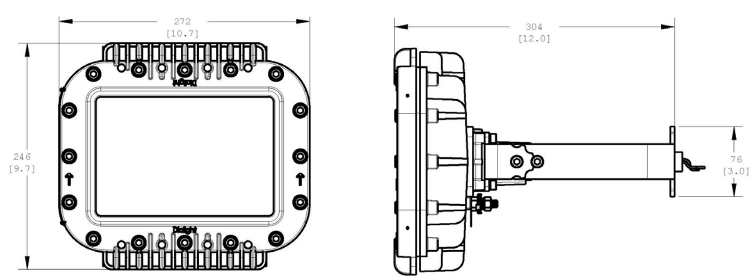
100-277 VAC, 120-250 VDC

Certifications & Ratings*

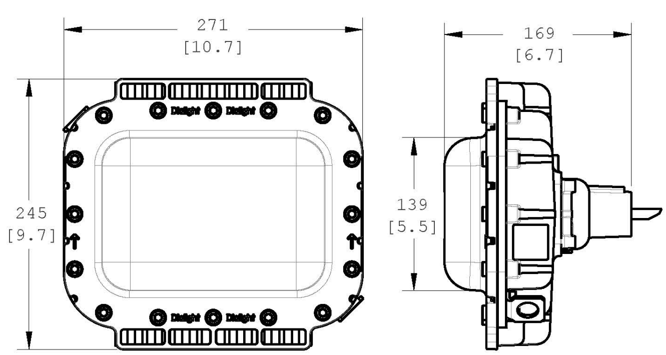
- 10-year warranty
- CE
- ENEC
- RCM
- IP66 / 67
- D-marked
- EN 60598-1: 2015
- EN 60598-2-1: 1989
- EN 60598-2-24: 2013
- EN 62471: 2008

*ETL listed

Tempered Glass Lens



Polycarbonate Lens



Dimensions in mm [inches]

Mechanical Information:

Fixture weight:

Adjustable bracket models	5.2 kg (11.5 lbs) - Polycarbonate lens 6.2 kg (13.7 lbs) - Tempered glass lens
Wall mount models:	6.8 kg (15 lbs) - Polycarbonate lens 8.2 kg (18 lbs) - Tempered glass lens
45° wall mount models:	6.4 kg (14 lbs) - Polycarbonate lens 7.8 kg (17 lbs) - Tempered glass lens
45° stanchion mount:	6.7 kg (15 lbs) - Polycarbonate lens 8.1 kg (18 lbs) - Tempered glass lens
34mm conveyor mount:	6.7 kg (15 lbs) - Polycarbonate lens 8.1 kg (18 lbs) - Tempered glass lens
Shipping weight:	Add 0.91 kg (2 lbs) to weights above
Impact rating:	IK10 - Polycarbonate lens IK07 - Tempered glass lens

Electrical Specifications:

Operating voltage:	100-277 VAC 50/60Hz, 120-250 VDC
Operating temperature:	-40°C to +65°C (-40°F to +149°F)
EMC:	EN 62493: 2015, EN 61547: 2009, EN 61000-3-2: 2015, EN 61000-3-3: 2013
Transient protection:	6 kV / 3kA combination wave, as per IEEE C62.41, line-line and line-ground
Harmonics:	IEC 61000-3-2, Class C
THD:	< 20%
Power factor:	> 0.9

Construction:

Housing:	Copper free aluminum
Finish:	Superior dual coat finish - Sealed polyester topcoat - Chemical-resistant epoxy primer
Corrosion resistance:	3,000-hour salt spray per ASTM B117
Lens[1]:	Hard-coated polycarbonate Tempered glass

Photometric Information:

CRI:	80
CCT:	5000K (cool white) 4000K (neutral white) 2700K (warm white)
Optics:	180° 360° Wide for 0° mounting

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

Vigilant® LED Area Light

100-277 VAC, 120-250 VDC

EMEA

Ordering Information - CE											
Part Number	Certification	Lens Material	Beam Distribution	CCT	CRI	Lumens	Wattage	Lm/W	Mounting Options	Hardware Accessories	Electrical Accessories
ALE7BC24DBUMGN	CE / ENEC	Glass	360°	5000K	80	4,200	30	140	316 stainless steel locking bracket	3M, 5 conductor cable	Cable gland
ALE5BC24DBUMGN	CE / ENEC	Polycarbonate	360°	5000K	80	3,900	30	130	316 stainless steel locking bracket	3M, 5 conductor cable	Cable gland
ALE7AC24DBUMGN	CE / ENEC	Glass	180° (oval)	5000K	80	4,100	30	137	316 stainless steel locking bracket	3M, 5 conductor cable	Cable gland
ALE5AC24DBUMGN	CE / ENEC	Polycarbonate	180° (oval)	5000K	80	3,800	30	127	316 stainless steel locking bracket	3M, 5 conductor cable	Cable gland
ALE7BC26DBUMGN	CE / ENEC	Glass	360°	5000K	80	5,700	40	143	316 stainless steel locking bracket	3M, 5 conductor cable	Cable gland
ALE5BC26DBUMGN	CE / ENEC	Polycarbonate	360°	5000K	80	5,300	40	133	316 stainless steel locking bracket	3M, 5 conductor cable	Cable gland
ALE7AC26DBUMGN	CE / ENEC	Glass	180° (oval)	5000K	80	5,500	40	138	316 stainless steel locking bracket	3M, 5 conductor cable	Cable gland
ALE5AC26DBUMGN	CE / ENEC	Polycarbonate	180° (oval)	5000K	80	5,100	40	128	316 stainless steel locking bracket	3M, 5 conductor cable	Cable gland
ALE7BC29DBUMGN	CE / ENEC	Glass	360°	5000K	80	9,000	66	136	316 stainless steel locking bracket	3M, 5 conductor cable	Cable gland
ALE5BC29DBUMGN	CE / ENEC	Polycarbonate	360°	5000K	80	8,300	66	126	316 stainless steel locking bracket	3M, 5 conductor cable	Cable gland
ALE7AC29DBUMGN	CE / ENEC	Glass	180° (oval)	5000K	80	8,800	66	133	316 stainless steel locking bracket	3M, 5 conductor cable	Cable gland
ALE5AC29DBUMGN	CE / ENEC	Polycarbonate	180° (oval)	5000K	80	8,100	66	123	316 stainless steel locking bracket	3M, 5 conductor cable	Cable gland

Ordering Information - CE with Junction Box											
Part Number	Certification	Lens Material	Beam Distribution	CCT	CRI	Lumens	Wattage	Lm/W	Mounting Options	Hardware Accessories	Electrical Accessories
ALE7BC24DBJUGN	CE / ENEC	Glass	360°	5000K	80	4,200	30	140	316 stainless steel locking bracket	Junction box	5 pos, push down terminal block
ALE5BC24DBJUGN	CE / ENEC	Polycarbonate	360°	5000K	80	3,900	30	130	316 stainless steel locking bracket	Junction box	5 pos, push down terminal block
ALE7AC24DBJUGN	CE / ENEC	Glass	180° (oval)	5000K	80	4,100	30	137	316 stainless steel locking bracket	Junction box	5 pos, push down terminal block
ALE5AC24DBJUGN	CE / ENEC	Polycarbonate	180° (oval)	5000K	80	3,800	30	127	316 stainless steel locking bracket	Junction box	5 pos, push down terminal block
ALE7BC26DBJUGN	CE / ENEC	Glass	360°	5000K	80	5,700	40	143	316 stainless steel locking bracket	Junction box	5 pos, push down terminal block
ALE5BC26DBJUGN	CE / ENEC	Polycarbonate	360°	5000K	80	5,300	40	133	316 stainless steel locking bracket	Junction box	5 pos, push down terminal block
ALE7AC26DBJUGN	CE / ENEC	Glass	180° (oval)	5000K	80	5,500	40	138	316 stainless steel locking bracket	Junction box	5 pos, push down terminal block
ALE5AC26DBJUGN	CE / ENEC	Polycarbonate	180° (oval)	5000K	80	5,100	40	128	316 stainless steel locking bracket	Junction box	5 pos, push down terminal block
ALE7BC29DBJUGN	CE / ENEC	Glass	360°	5000K	80	9,000	66	136	316 stainless steel locking bracket	Junction box	5 pos, push down terminal block
ALE5BC29DBJUGN	CE / ENEC	Polycarbonate	360°	5000K	80	8,300	66	126	316 stainless steel locking bracket	Junction box	5 pos, push down terminal block
ALE7AC29DBJUGN	CE / ENEC	Glass	180° (oval)	5000K	80	8,800	66	133	316 stainless steel locking bracket	Junction box	5 pos, push down terminal block
ALE5AC29DBJUGN	CE / ENEC	Polycarbonate	180° (oval)	5000K	80	8,100	66	123	316 stainless steel locking bracket	Junction box	5 pos, push down terminal block

Dialight

Vigilant® LED Area Light

100-277 VAC, 120-250 VDC

APAC

Ordering Information

Part Number	Certification	Lens Material	Beam Distribution	CCT	CRI	Lumens	Wattage	Lm/W	Mounting Options	Hardware Accessories	Electrical Accessories
ALE5WC27DYNVGN	CE	Polycarbonate	Conveyor	5000K	80	6,700	64	105	34mm conveyor mount	Screw down terminal block	Cable gland
ALE5AC26DBWMGN	CE	Polycarbonate	180° (oval)	5000K	80	5,100	40	128	Stainless steel locking bracket	3M power cable	Cable gland
ALE5BC26DBWMGN	CE	Polycarbonate	360°	5000K	80	5,300	40	133	Stainless steel locking bracket	3M power cable	Cable gland
ALE5BC26DWNVGN	CE	Polycarbonate	360°	5000K	80	5,300	40	133	Wall mount 45° (M25)	Screw down terminal block	
ALE5BC26DSNVGN	CE	Polycarbonate	360°	5000K	80	5,300	40	133	Wall mount 45° (M25)	Screw down terminal block	
ALU5BC26DNWNGN	UL	Polycarbonate	360°	5000K	80	5,300	40	133	3/4" conduit entrie	3M power cable	
ALU5BC24DNWNGN	UL	Polycarbonate	360°	5000K	80	3,900	30	130	3/4" conduit entrie	3M power cable	
ALE5AN27DBWMGN	CE	Polycarbonate	180° (oval)	5000K	80	6,400	52	123	Stainless steel locking bracket	3M power cable	Cable gland
ALU5AN26DVNNGN	UL	Polycarbonate	180° (oval)	5000K	80	3,800	30	127	Wall mount 0° (3/4 NPT)		

Amber Models

ALEABN29DBWMGN	4,050	66	61	100-277 VAC, 120-250 VDC	Amber	Polycarbonate	360°	316 stainless steel adjustable bracket
ALEAWN27DYNVGN	3,250	64	51	100-277 VAC, 120-250 VDC	Amber	Polycarbonate	Wide	34mm conveyor mount
ALEABN27DBWMGN	3,250	52	63	100-277 VAC, 120-250 VDC	Amber	Polycarbonate	360°	316 stainless steel adjustable bracket
ALEABN27DSNUGN	3,250	52	63	100-277 VAC, 120-250 VDC	Amber	Polycarbonate	360°	45° stanchion mount
ALEABN27DWNUGN	3,250	52	63	100-277 VAC, 120-250 VDC	Amber	Polycarbonate	360°	45° wall mount
ALEABN27DWNUGN	3,250	52	63	100-277 VAC, 120-250 VDC	Amber	Polycarbonate	360°	45° wall mount

Lumen Tables

100-277 VAC, 120-250 VDC									
Output Family	Beam Distribution	Lens	Wattage	Lumens 5000 CCT	5000 CCT lm/W	Lumens 4000 CCT	4000 CCT lm/W	Lumens 2700 CCT	2700 CCT lm/W
9,000	360°	1/4" Glass	66	9000	136	8800	134	8200	124
		Polycarbonate		8300	127	8100	123	7600	115
	180°	1/4" Glass		8800	134	8600	131	8000	121
		Polycarbonate		8100	124	7900	120	7400	112
7,300	360°	1/4" Glass	52	7300	140	7100	138	6700	129
		Polycarbonate		6700	131	6500	126	6100	117
	180°	1/4" Glass		7100	138	6900	134	6500	125
		Polycarbonate		6600	128	6400	124	6000	115
	Wide	1/4" Glass	64	7300	114	7100	112	6700	105
		Polycarbonate		6700	106	6500	103	6100	95
5,700	360°	1/4" Glass	40	5700	143	5500	140	5200	130
		Polycarbonate		5300	133	5100	130	4800	120
	180°	1/4" Glass		5500	140	5300	135	5000	125
		Polycarbonate		5100	130	4900	125	4600	115
4,200	360°	1/4" Glass	30	4200	140	4100	137	3800	127
		Polycarbonate		3900	130	3800	127	3900	130
	180°	1/4" Glass		4100	137	4000	134	4100	137
		Polycarbonate		3800	127	3700	124	3400	113
3,100	360°	1/4" Glass	24	3100	129	3000	127	2800	117
		Polycarbonate		2800	120	2700	114	2500	104
	180°	1/4" Glass		3000	127	2900	123	2700	113
		Polycarbonate		2800	118	2700	114	2500	104

All values typical unless otherwise stated (tolerance +/- 10%)
For lighting layouts, please find IES files at www.dialight.com

Lumen Maintenance Factor Tables

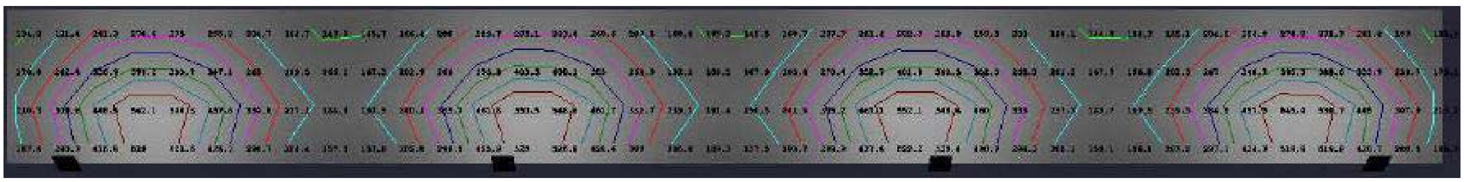
Lumen Maintenance Factor										
	Time (Hours)									
Ambient (C)	0	15000	30000	45000	60000	75000	90000	100000	200000	300000
25°	100	98	96	95	94	92	91	90	82	75
30°	100	98	96	95	94	92	91	90	82	75
35°	100	98	96	95	94	92	91	90	82	75
40°	100	98	96	95	94	92	91	90	82	75
45°	100	98	96	95	94	92	91	90	82	75
50°	99	97	95	94	93	91	90	89	81	74
55°	98	96	94	93	92	90	89	88	81	73
60°	97	95	93	92	91	90	88	88	80	73
65°	96	94	92	91	90	89	87	87	79	72

Measured LED temperature for an ambient temperature range of 25°C to 65°C and calculated lumen maintenance using TM-21 calculator and LED LM80 data.
Data in the above tables relates to 100 – 277 VAC, 120-250 VDC product. For information about 347-480 VAC, 24-48 VDC, Battery back-up products please visit www.dialight.com.

Lighting Layouts

ALE7AN27xxxxxN

Calculation Summary - Mounting Height: 2.4m						
Calc Type	Units	Avg	Max	Min	Avg/Min	Max/Min
Illuminance	Lux	294.17	552.1	134.8	2.18	4.10



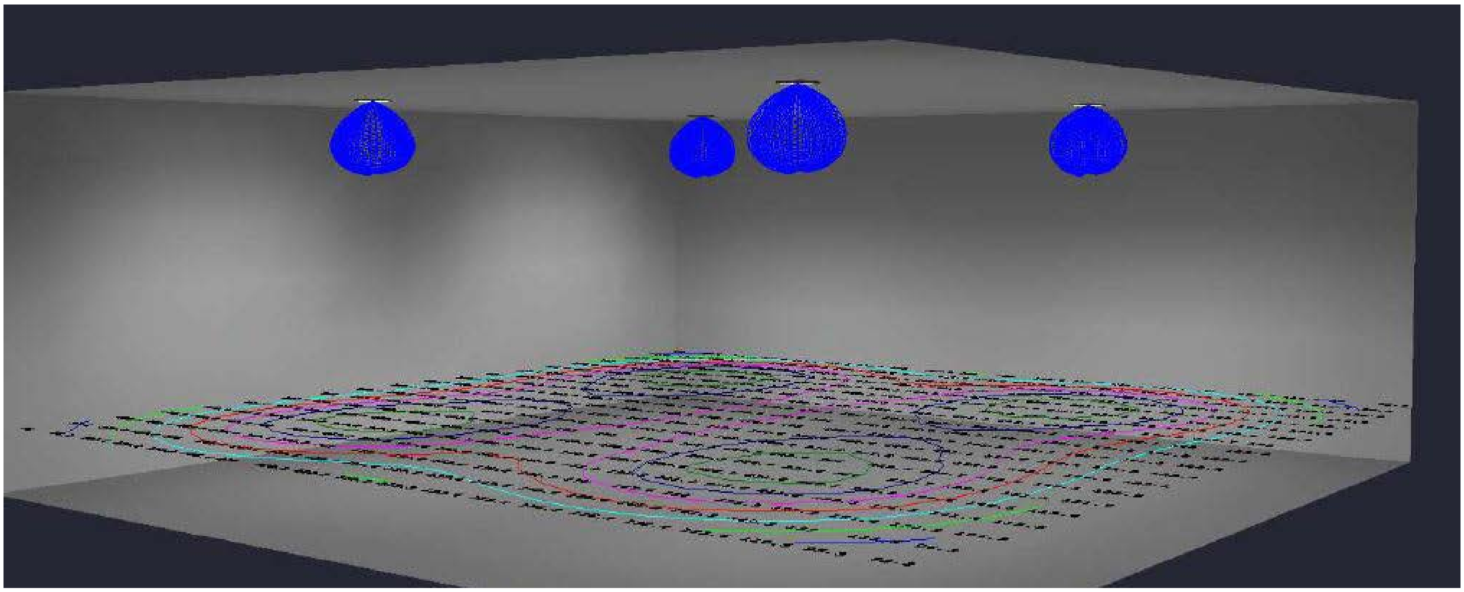
ALE7WN27xxxxxN

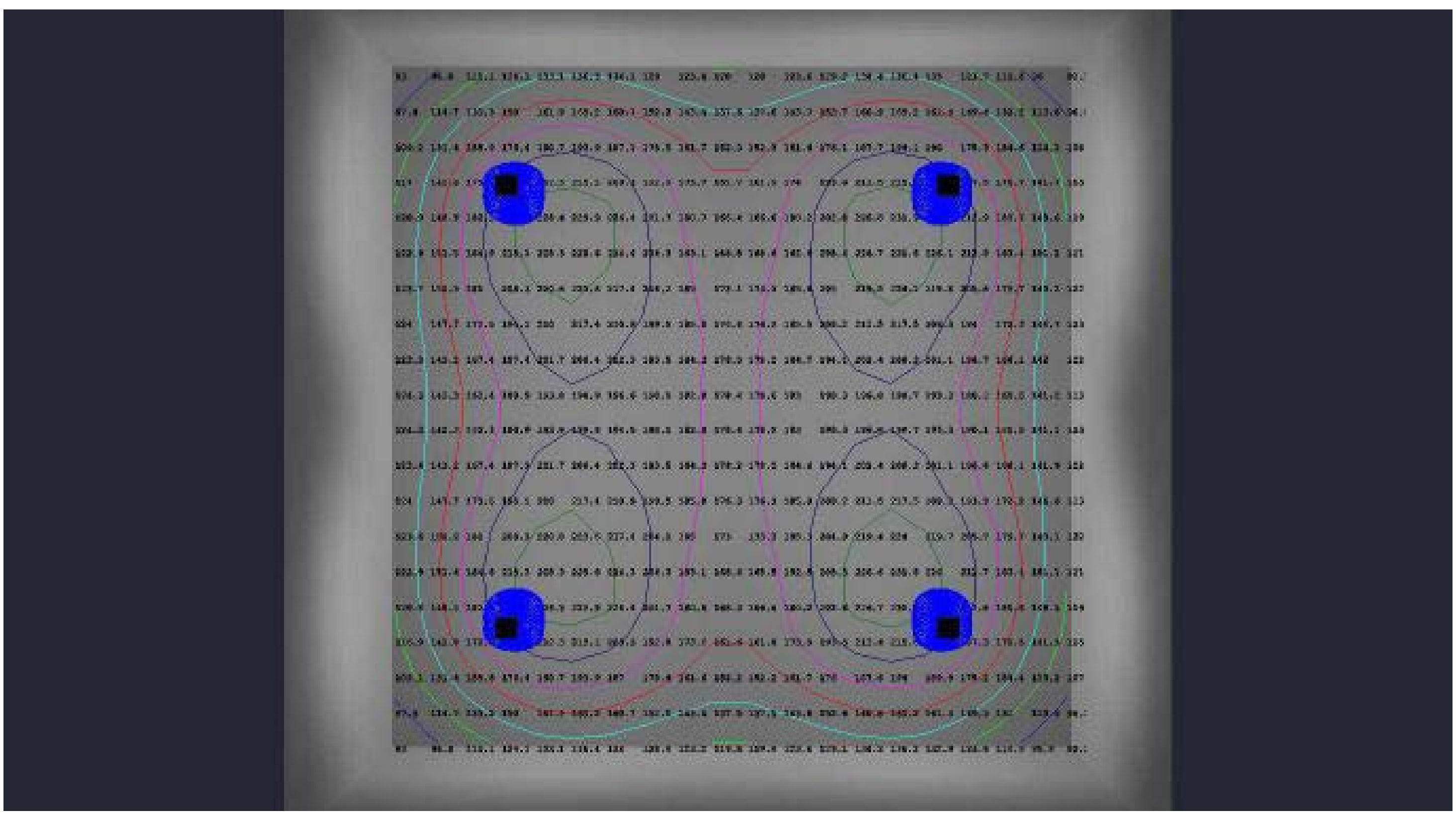
Calculation Summary - Mounting Height: 2.4m						
Calc Type	Units	Avg	Max	Min	Avg/Min	Max/Min
Illuminance	Lux	245.25	395.5	114.5	2.14	3.45

Lighting Layouts

ALE7BC27xxxxxN

Calculation Summary - Mounting Height: 4.6m Workplane: 0.76m						
Calc Type	Units	Avg	Max	Min	Avg/Min	Max/Min
Illuminance	Lux	170.98	231.9	82.2	2.08	2.82

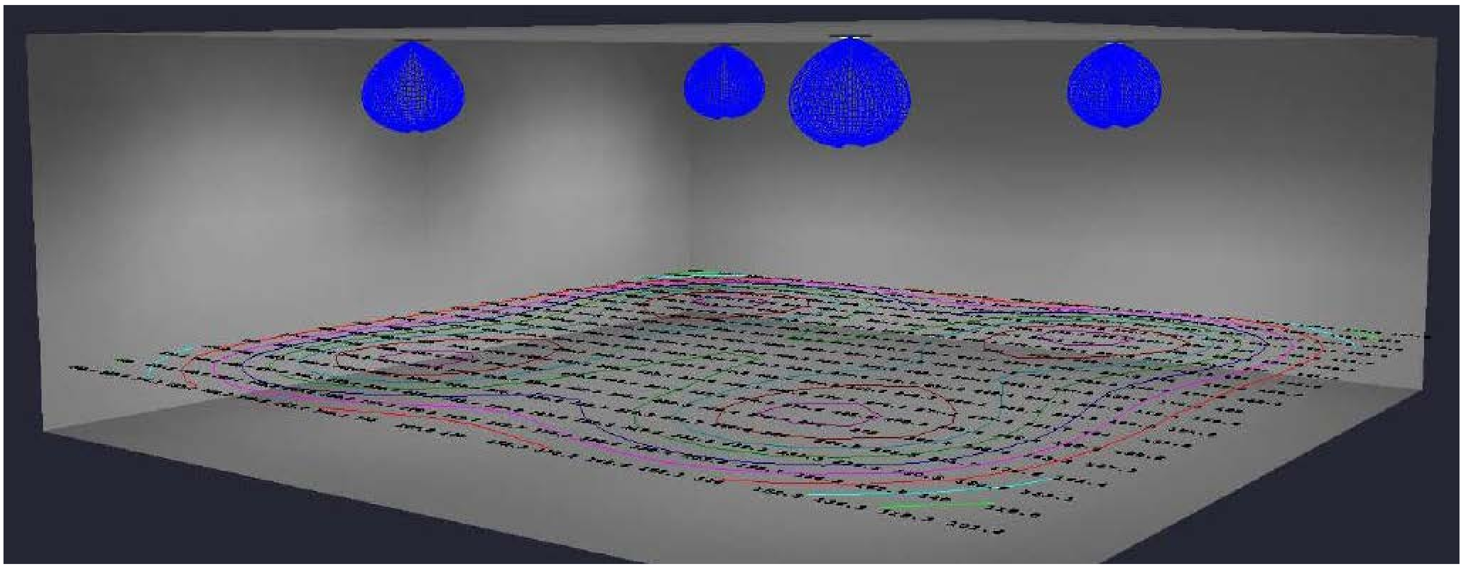


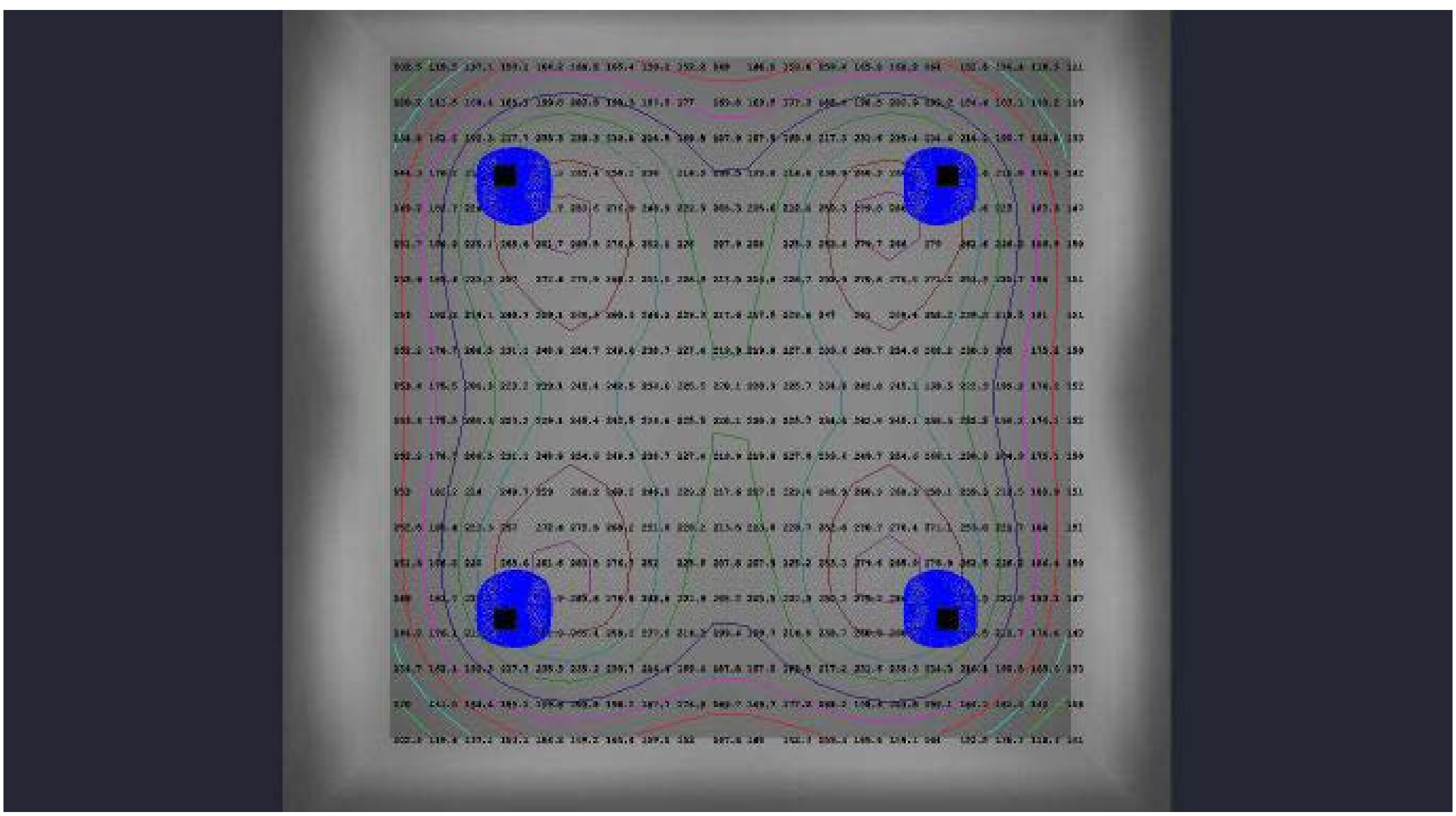


Lighting Layouts

ALE7BC29xxxxxN

Calculation Summary - Mounting Height: 4.6m Workplane: 0.76m						
Calc Type	Units	Avg	Max	Min	Avg/Min	Max/Min
Illuminance	Lux	210.96	286.1	101.4	2.08	2.82

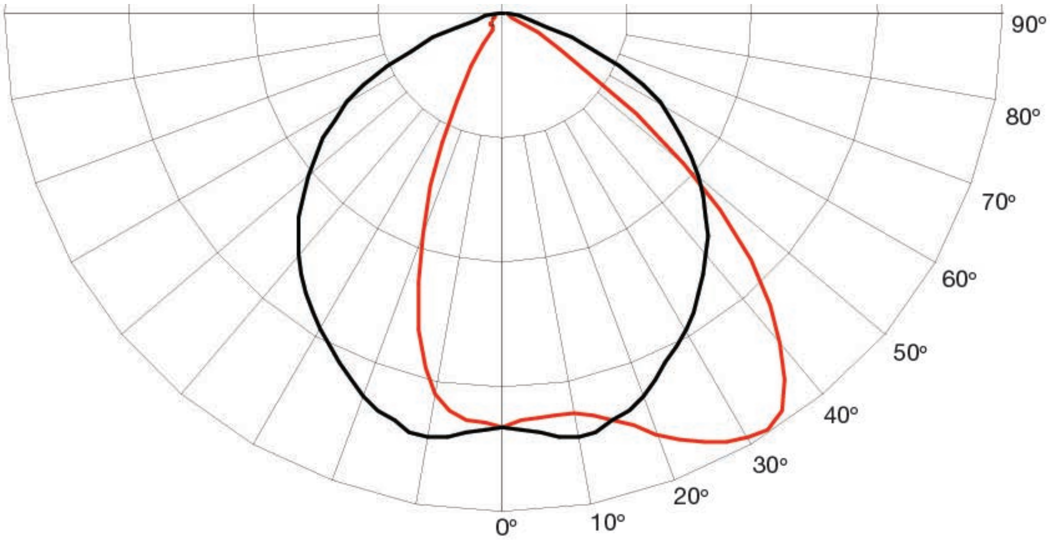




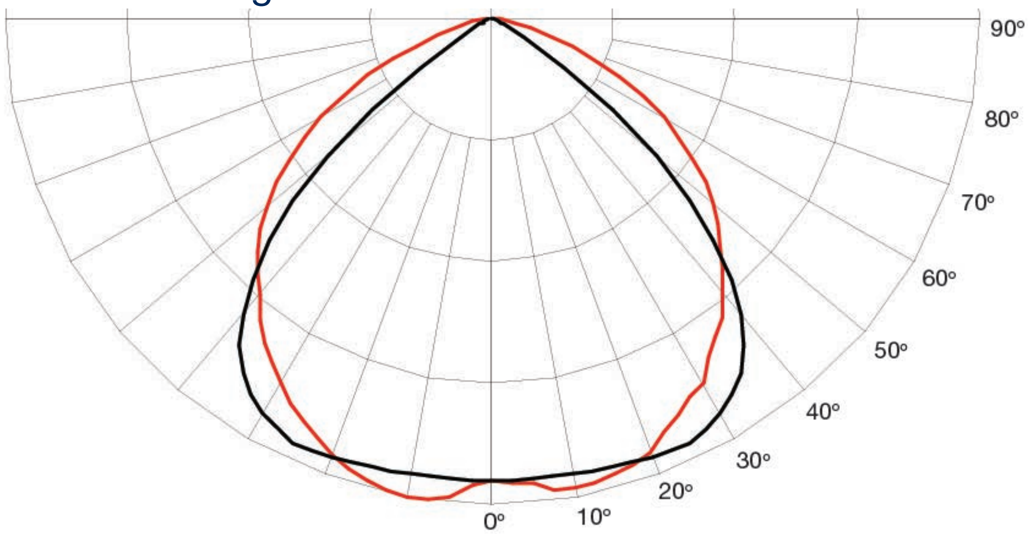
Beam Distribution

100-277 VAC, 120-250 VDC

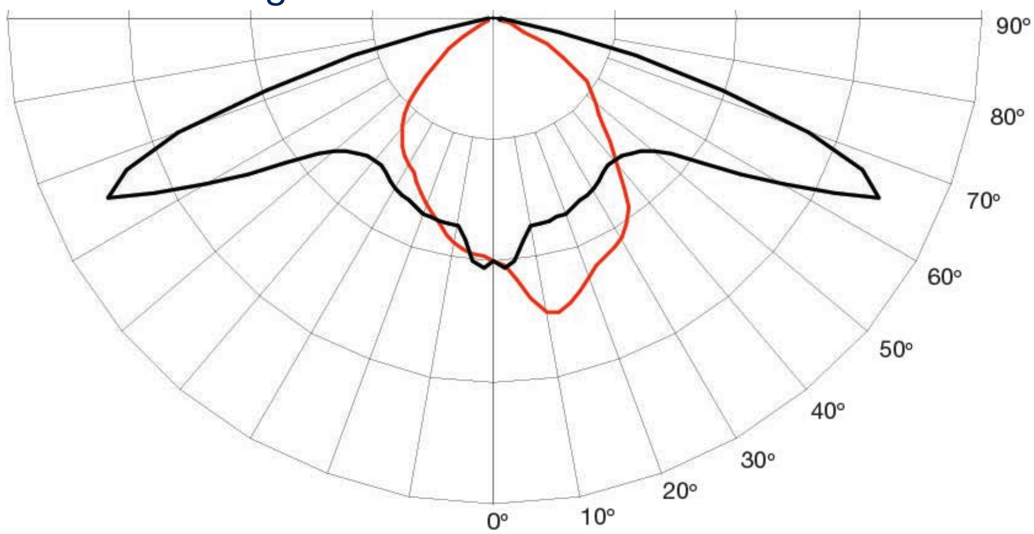
180° Beam Angle



360° Beam Angle



Wide Beam Angle

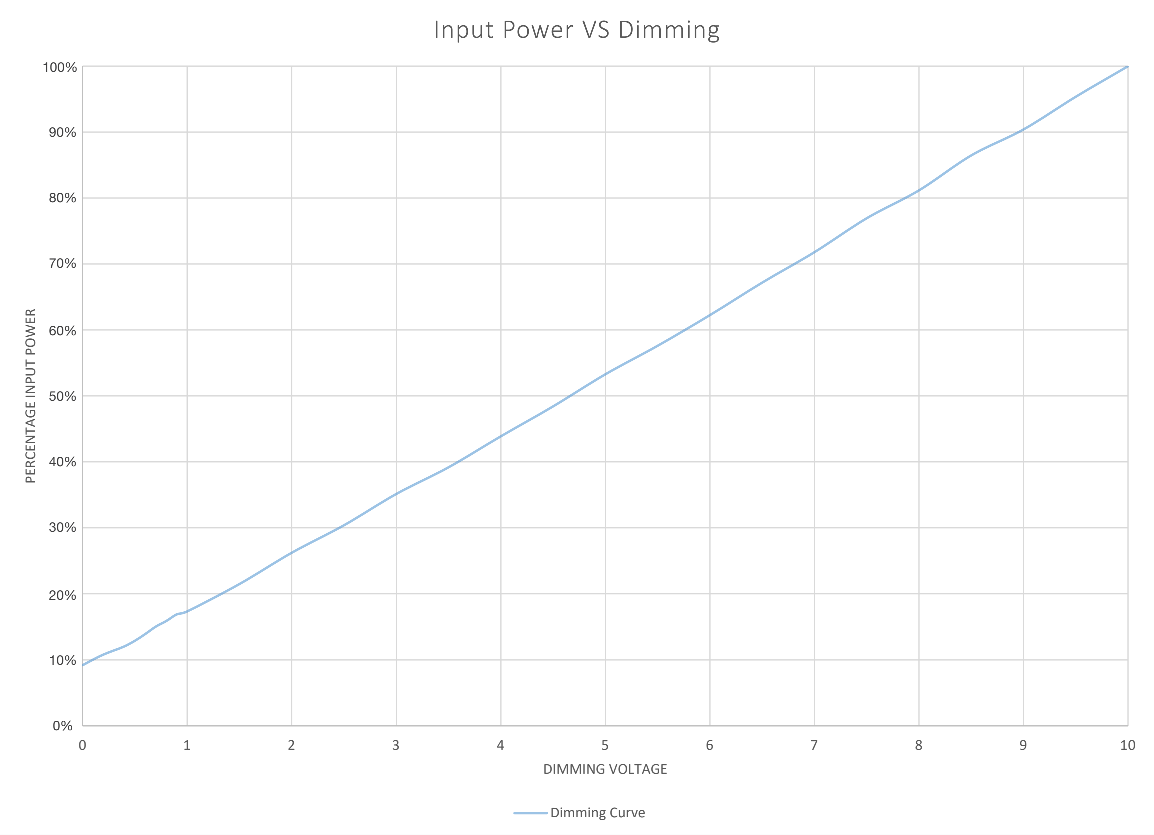


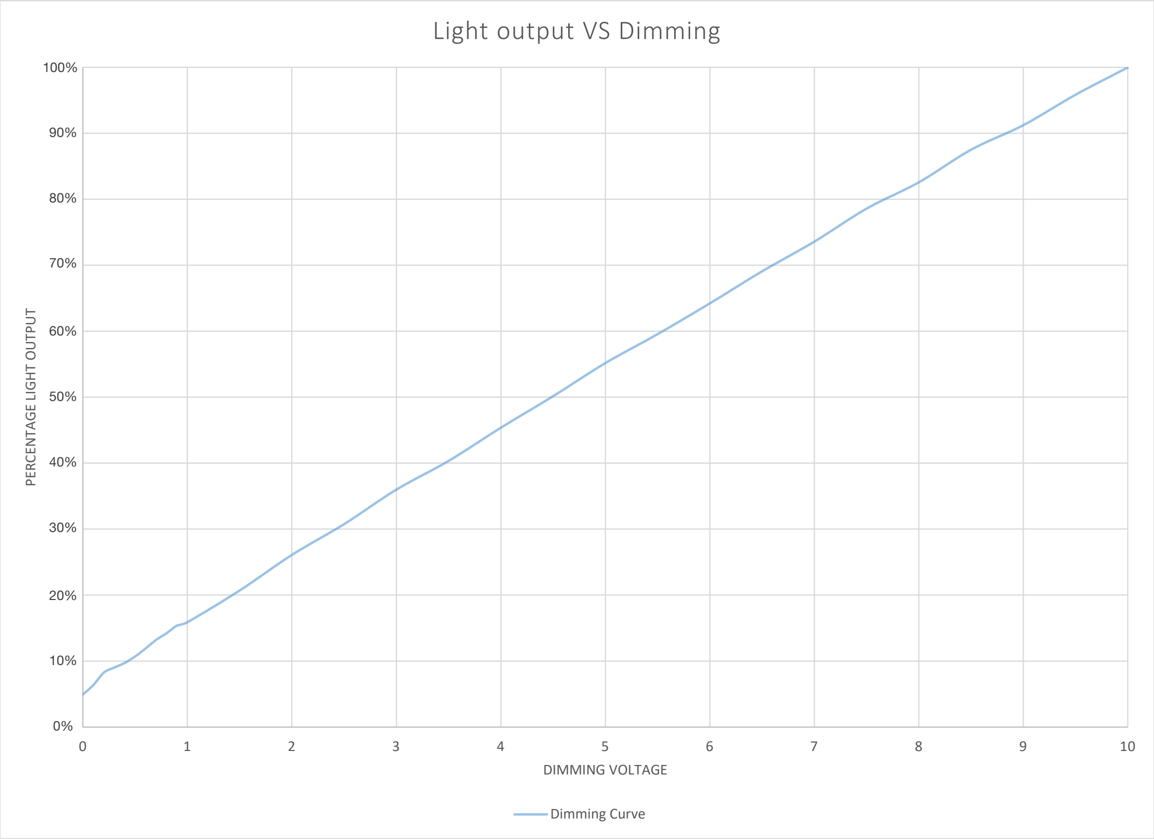
= 0°

= 90°

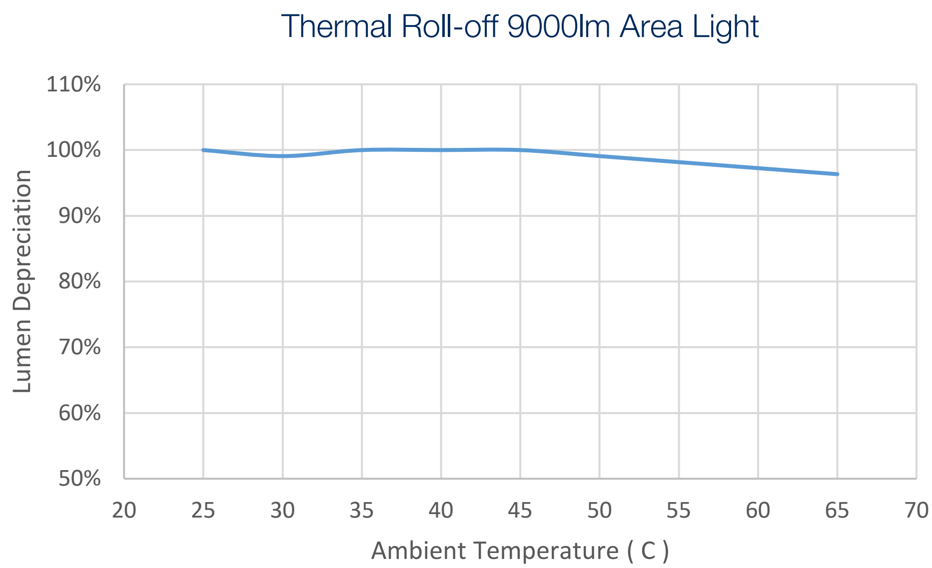
Dimming

Dimming Characterization 0 - 10V





Thermal Roll-Off



Ambient Temperature (C)	Lumen Degradation
25°	100%
30°	99%
35°	100%
40°	100%
45°	100%
50°	99%
55°	98%
60°	97%
65°	96%

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

In Rush Current / Circuit Breakers

Model	Wattage	In rush current @ input voltage			Time duration of in rush current @ input voltage		
		120 VAC	230 VAC	277 VAC	120 VAC	230 VAC	277 VAC
9K	66	8A	15A	18A	1ms	1ms	1ms
7K	52	8A	15A	18A	1ms	1ms	1ms
7K Wide	64	8A	15A	18A	1ms	1ms	1ms
5.5K	40	8A	15A	18A	1ms	1ms	1ms
4K	30	8A	15A	18A	1ms	1ms	1ms
3K	24	8A	15A	18A	1ms	1ms	1ms

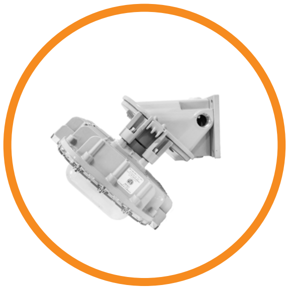
Mounting Options

Adjustable Bracket Mounting

Part Number: ALxxxx2xDNNxGN

Ceiling & Wall Mounting

Area Light with 0° Wall Mount
Part Number: ALxxxx2xDVNxGN



Area Light with 45° Wall Mount
Part Number: ALxxxx2xDWNxGN

Mounting Options

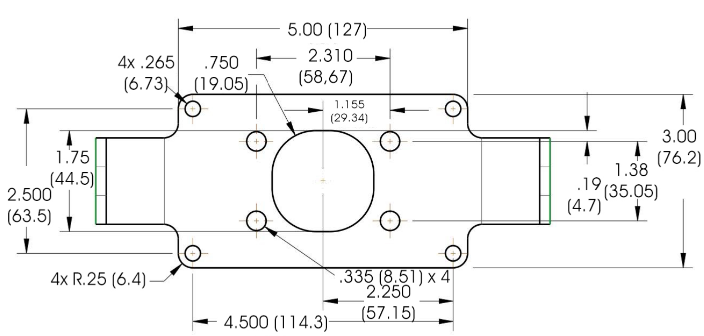
Stanchion & Pole Mounting

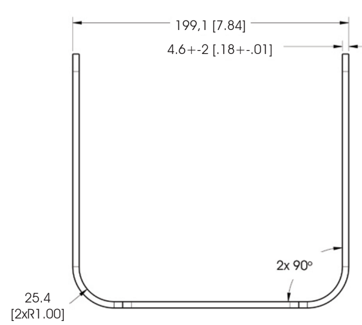
Area Light with 45° Stanchion Mount
Part Number: ALxxxx2xDSNxGN

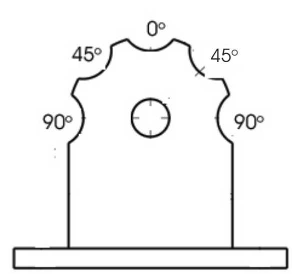
Area Light with 35mm Slip-fit Pole Mount
Part Number: ALxxxx2xDYNxGN

Dimensional Drawings - Accessories

HZXW3, HZXW4, HZXW7, AND HZXW8
.25" thick; HZXW4 and HZWX8 will mount to 1.5" conduit and comes with pipe mount clamps.



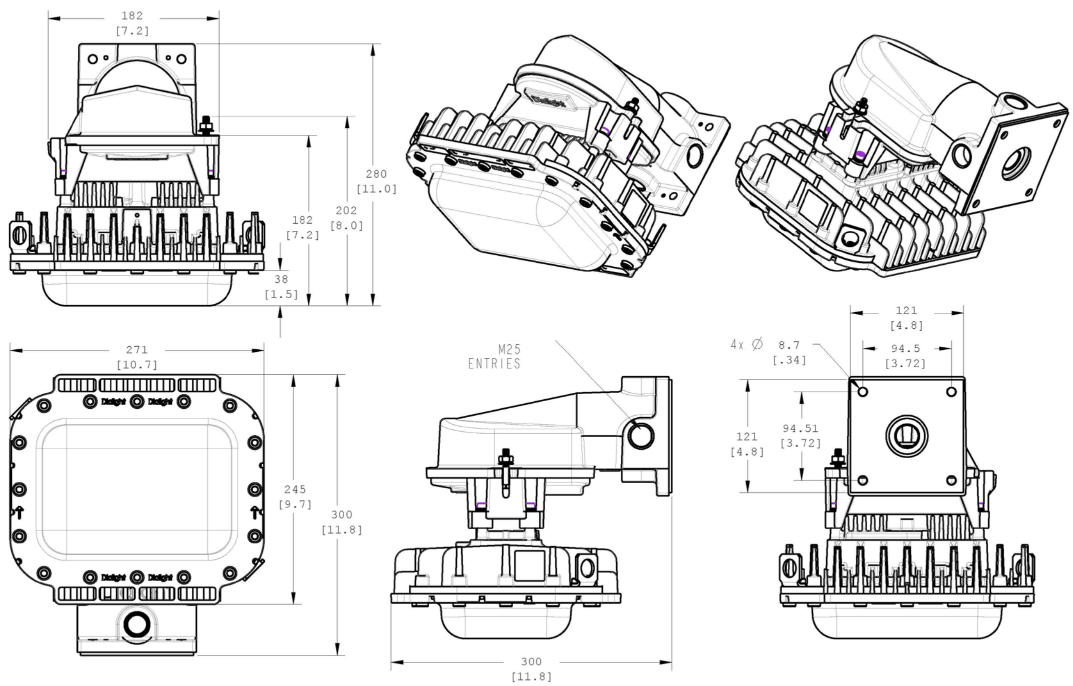




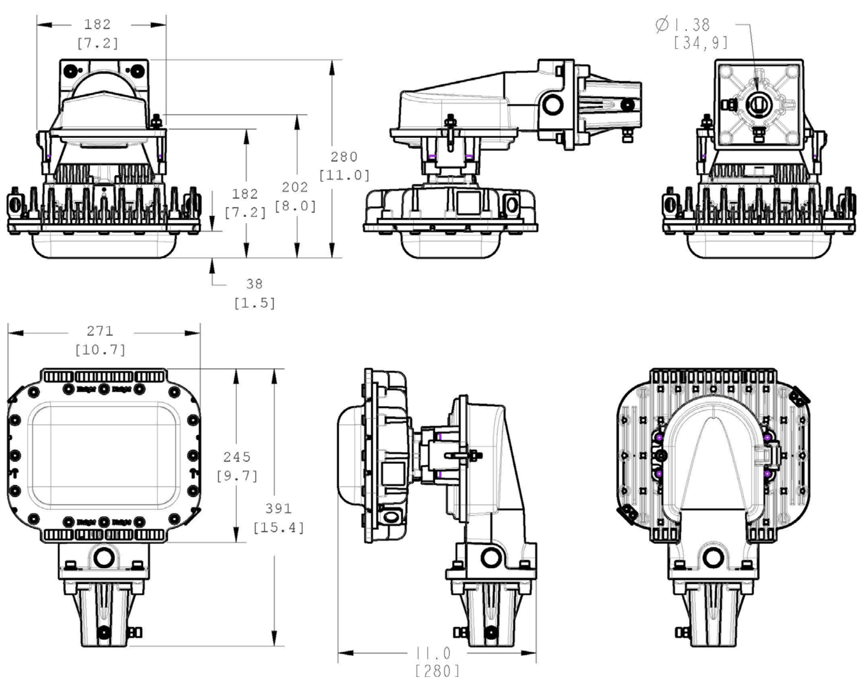
Dimensions in mm [inches]

Dimensional Drawings - Universal Mounting Adapters

Wall Mount



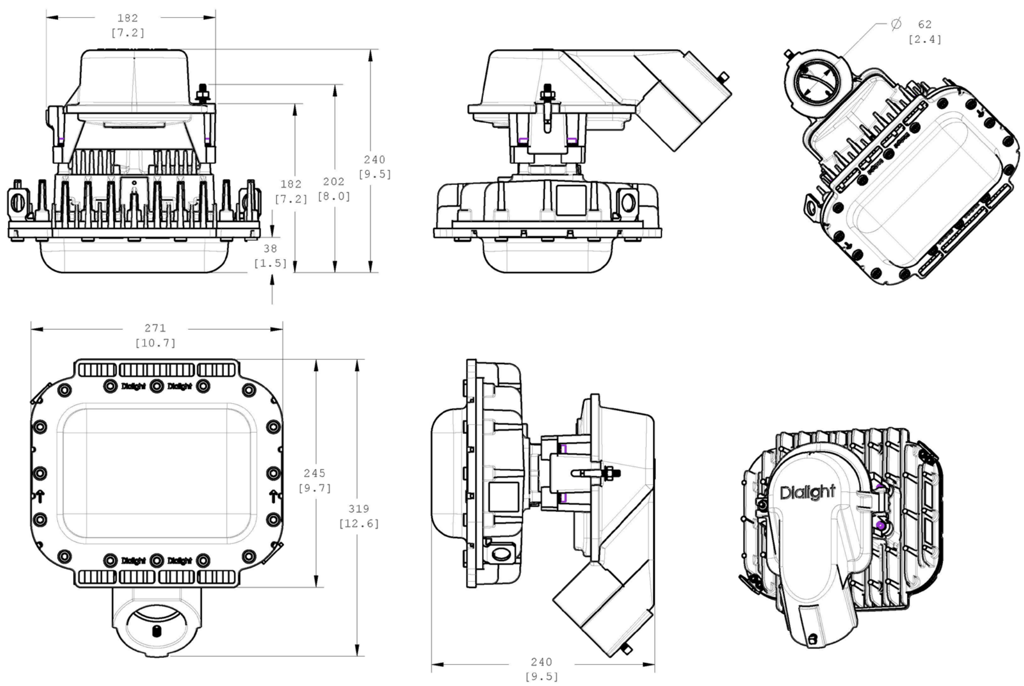
34mm Slip-Fit Pole Mount



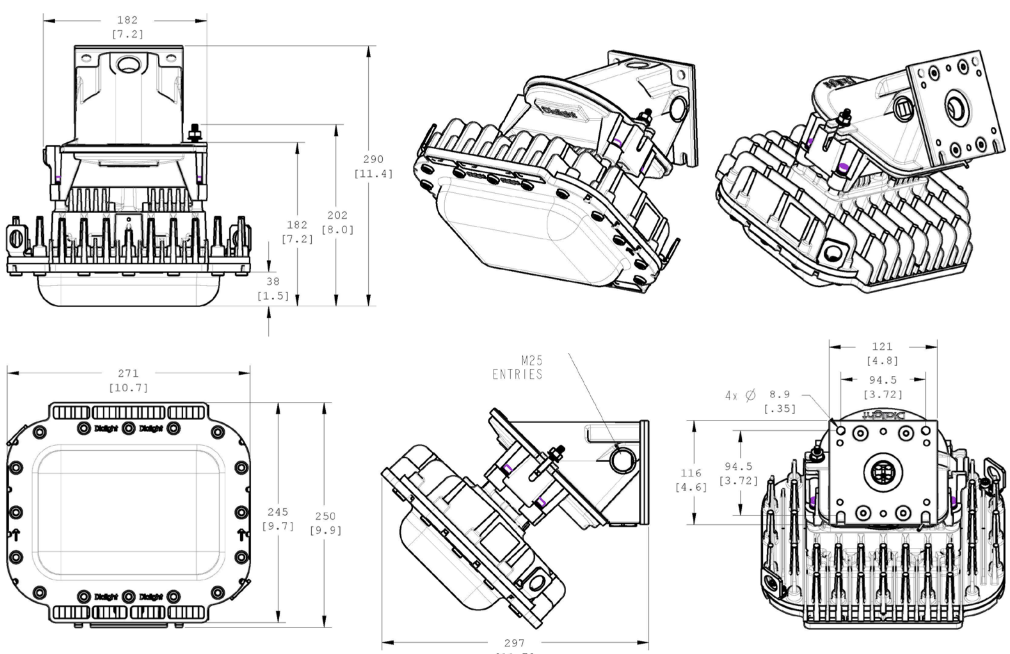
Dimensions in inches [mm]

Dimensional Drawings - Universal Mounting Adapters

45° Stanchion Mount



45° Wall Mount



Dimensions in inches [mm]

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