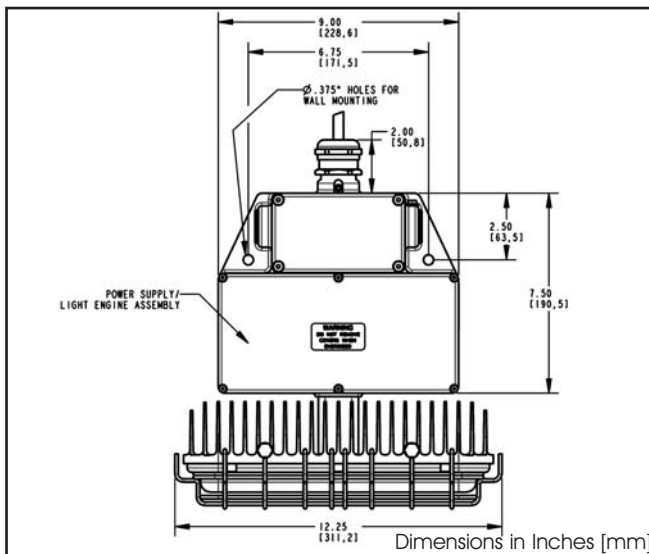# Dialight

Patents Pending

Application:

Dialight introduces the new state of the art fixture for hazardous location lighting. Its rugged solid state design creates a new era where failed lamps and expensive relamping costs become a thing of the past. This light incorporates both cutting edge LED technology along with proprietary optics to achieve area lighting comparable with other traditional light sources. By focusing the light where it is needed, the SafeSite Series is the most efficient light source available for hazardous area lighting applications. Whether your application is in a refinery, oil platform, chemical plant or any other ATEX Zone 2 or 22 application, this fixture offers improved performance across the board.

SafeSite® ATEX LED Area Light

Dimensions in Inches [mm]

Certifications & Ratings:
▷ 3 G Ex nA II T4 (incorporates wire cage)
▷ 3 D tD B22 IP66 T1 (incorporates wire cage)
▷ Certified to NEMA 4X
▷ CE compliant
▷ IP66 rated

Features & Benefits:
▷ Low power consumption
▷ Instant on/off response
▷ Weather/corrosion resistant lamp assembly and housing
▷ Universal input (100-277 VAC), 50/60 Hz
▷ Resistant to shock (IEC 68-2-27) and vibration (FAA 150/5345-46C)
▷ 5 year warranty
▷ 70% lumen maintenance over 60,000 operating hours

Order Codes:

SafeSite ATEX 150 Series	
HZC041501111201	ATEX Cert - 180 Degree
HZC041501111301	ATEX Cert - 360 Degree
SafeSite ATEX 250 Series	
HZC042501111201	ATEX Cert - 180 Degree
HZC042501111301	ATEX Cert - 360 Degree

Mechanical Information:

Container Dimensions:	15" X 16" X 10" 381mm x 407mm x 254mm
Container Weight:	19 lbs (8.2 kg)
Mounting:	Threaded 1" NPT on 3 sides of splice box

Electrical specifications:

Operating Voltage:	100-277 VAC, 50/60 Hz *(DC versions available - consult factory)*
Power Consumption:	100W
Amps:	0.83
Operating Temp:	-40°F to +133°F (-40°C to +55°C)
Harmonics:	IEC 6100-3-2
Surge / Lightning Protection:	1 kV line to line 2 kV line to ground
THD:	<15% (277VAC) <10% (230/240VAC) <5% (120VAC)
Power Factor:	> 0.9

Material:

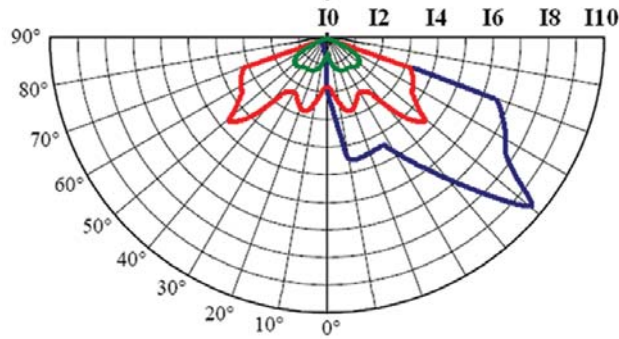|	
Lens:	UV stabilized Polycarbonate with enhanced abrasive resistance
Body:	Grey powder coated aluminum
Heat sink:	Grey powder coated aluminum
Accessories (hardware):	Stainless steel

Photometric Information:

CRI (typ):	70
CCT:	4500-7000K

Light Measurement Data

Intensity Distribution

I0 I2 I4 I6 I8 I10

FRONT/BACK
180 Degree Pattern
360 Degree Pattern

SIDES
180 Degree Pattern
360 Degree Pattern

ATEX 150 Series

I0	I2	I4	I6	I8	I10	I0	I2	I4	I6	I8	I10
0	1800	3600	5400	8100	9000	0	810	1620	2430	3240	4050

11,250 Total Lumens for Night or
Low Light Level Conditions (scotopic)

4,950 Total Lumens for Day or
High Light Level Conditions (photopic)

ATEX 250 Series

I0	I2	I4	I6	I8	I10	I0	I2	I4	I6	I8	I10
0	2000	4000	6000	8000	10000	0	900	1800	2700	3600	4500

12,500 Total Lumens for Night or
Low Light Level Conditions (scotopic)

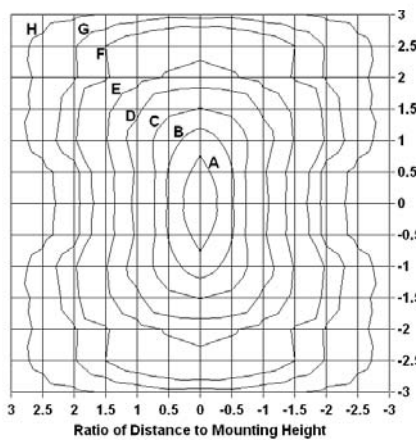5,500 Total Lumens for Day or
High Light Level Conditions (photopic)
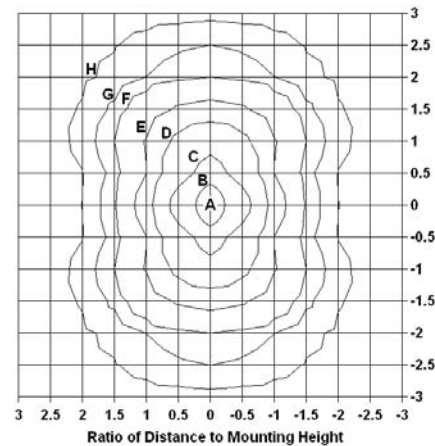
Back to Back 360 Degree Pattern

Ratio of Distance to Mounting Height

360 Degree Pattern

Ratio of Distance to Mounting Height

150 Series

Illuminance Values for Night or Low Light Level Conditions
(Scotopic Footcandles)

Mounting Height (ft)	A	B	C	D	E	F	G	H
4	184.7	123.1	98.5	61.6	36.9	18.5	12.3	6.2
8	46.2	30.8	24.6	15.4	9.2	4.6	3.1	1.5
12	20.5	13.7	10.9	6.8	4.1	2.1	1.4	0.7
16	11.6	7.7	6.2	3.9	2.3	1.1	0.8	0.4
20	7.4	4.9	3.9	2.5	1.5	0.7	0.5	0.2
25	4.7	3.2	2.5	1.6	0.9	0.5	0.3	0.2
30	3.3	2.2	1.7	1.1	0.7	0.3	0.2	0.1
35	2.4	1.6	1.3	0.8	0.5	0.2	0.2	0.1

Illuminance Values for Day or High Light Level Conditions
(Photopic Footcandles)

Mounting Height (ft)	A	B	C	D	E	F	G	H
4	81.00	54.00	43.20	27.00	16.20	8.10	5.40	2.70
8	20.25	13.50	10.80	6.75	4.05	2.03	1.35	0.68
12	9.00	6.00	4.80	3.00	1.80	0.90	0.60	0.30
16	5.07	3.38	2.70	1.69	1.02	0.50	0.34	0.17
20	3.24	2.16	1.73	1.08	0.65	0.32	0.22	0.11
25	2.07	1.39	1.11	0.69	0.41	0.21	0.14	0.07
30	1.44	0.96	0.77	0.48	0.29	0.14	0.10	0.05
35	1.06	0.70	0.57	0.35	0.22	0.11	0.07	0.04

250 Series

Illuminance Values for Night or Low Light Level Conditions
(Scotopic Footcandles)

Mounting Height (ft)	A	B	C	D	E	F	G	H
4	205.20	136.80	109.44	68.40	41.04	20.52	13.68	6.84
8	51.30	34.20	27.36	17.10	10.26	5.13	3.42	1.71
12	22.80	15.20	12.16	7.60	4.56	2.28	1.52	0.76
16	12.83	8.55	6.84	4.28	2.57	1.28	0.86	0.43
20	8.21	5.47	4.38	2.74	1.64	0.82	0.55	0.27
25	5.25	3.50	2.80	1.75	1.05	0.53	0.35	0.18
30	3.65	2.43	1.95	1.22	0.73	0.36	0.24	0.12
35	2.68	1.79	1.43	0.89	0.54	0.27	0.18	0.09

Illuminance Values for Day or High Light Level Conditions
(Photopic Footcandles)

Mounting Height (ft)	A	B	C	D	E	F	G	H
4	90.00	60.00	48.00	30.00	18.00	9.00	6.00	3.00
8	22.50	15.00	12.00	7.50	4.50	2.25	1.50	0.75
12	10.00	6.67	5.33	3.33	2.00	1.00	0.67	0.33
16	5.63	3.75	3.00	1.88	1.13	0.56	0.38	0.19
20	3.60	2.40	1.92	1.20	0.72	0.36	0.24	0.12
25	2.30	1.54	1.23	0.77	0.46	0.23	0.15	0.08
30	1.60	1.07	0.85	0.53	0.32	0.16	0.11	0.05
35	1.18	0.78	0.63	0.39	0.24	0.12	0.08	0.04

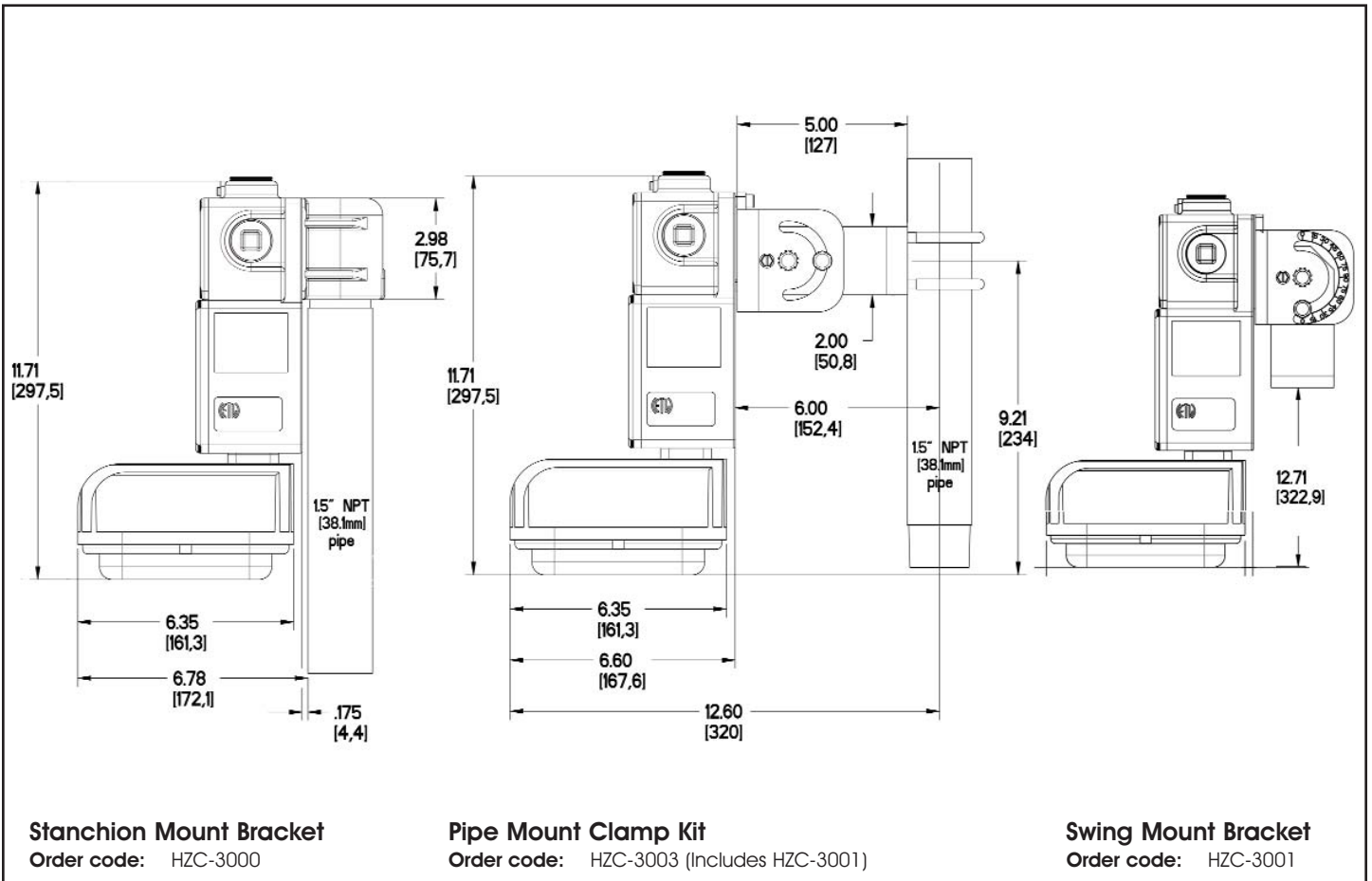# SafeSite® LED Area Light Mounting Brackets - Single Units

Stanchion Mount Bracket

Pipe Mount Clamp Kit

180° Adjustable Swing Mount Bracket

Stanchion Mount Bracket
Order code: HZC-3000

Pipe Mount Clamp Kit
Order code: HZC-3003 (Includes HZC-3001)

Swing Mount Bracket
Order code: HZC-3001

Dimensions in Inches [mm]

SafeSite® LED Area Light Mounting Brackets - Dual Units

Dual Stanchion Mount Bracket

Dual Pendant Mount Bracket

Dual Stanchion Mount Bracket
Order code: HZC-3002-150

Dual Pendant Mount Bracket
Order code: HZC-3002

Dimensions in Inches [mm]

MDTFHZCEU001_C