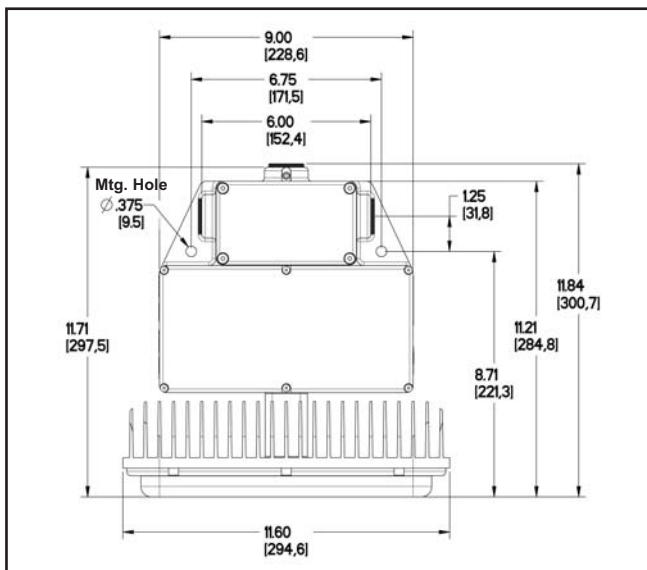# Dialight

Patents Pending

STW Series LED White Downlight

Dimensions in Inches [mm]

Certifications & Ratings:
▷ Certified to UL844 / NEMA 4X / UL1598 / UL1598A / CSA 22.2
▷ IP66 rated

Features & Benefits:
▷ Low power consumption
▷ Instant on/off response
▷ Weather/corrosion resistant lamp assembly and housing
▷ Universal input (120-277 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

Application:

Dialight introduces the new state of the art white STW Series LED luminarie for tough and harsh industrial locations. 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, this luminaries is the most efficient light source available for industrial area lighting applications. Its green credentials include significant energy consumption savings and reducing light pollution.

Whether your application is a power plant, paper mill, steel mill or bottling this fixture offers improved performance across the board.

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:	120-277 VAC, 50/60 Hz
Power Consumption:	100 W
Operating Temp:	-40ºF to +133ºF (-40ºC to +55ºC)
Harmonics:	IEC 6100-3-2
Surge / Lightning Protection:	1 kV line to line 2 kV line to ground
THD:	< 20 %
Power Factor:	> 0.9

Material:

Body:	Grey epoxy powder coat aluminum
Lens:	UV stabilized Polycarbonate with enhanced abrasive resistance
Heat sink:	Clear anodized aluminum
Accessories (hardware):	Stainless steel

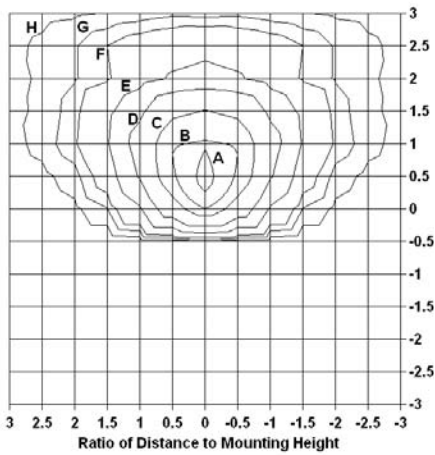### Photometric Information:

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

Order Codes:

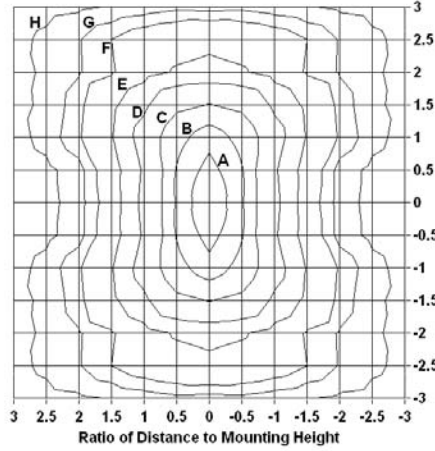| 150 Watt Equivalent	
STW-00-050-1111-201	STW 150 - 180 Degree
STW-00-050-1111-301	STW 150 - 360 Degree
*STW-00-050-1111-202	STW 150 - 180 Degree, HVS
*STW-00-050-1111-302	STW 150 - 360 Degree, HVS

250 Watt Equivalent	
STW-00-250-1111-201	STW 250 - 180 Degree
STW-00-250-1111-301	STW 250 - 360 Degree
*STW-00-250-1111-202	STW 250 - 180 Degree, HVS
*STW-00-250-1111-302	STW 250 - 360 Degree, HVS

DC versions available - consult factory

* HVS order codes are High Vibration & Shock resistant.
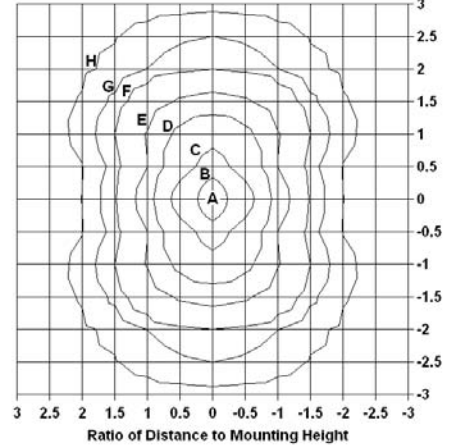
Light Measurement Data

180 Degree Pattern

Back to Back 360 Degree Pattern

360 Degree Pattern

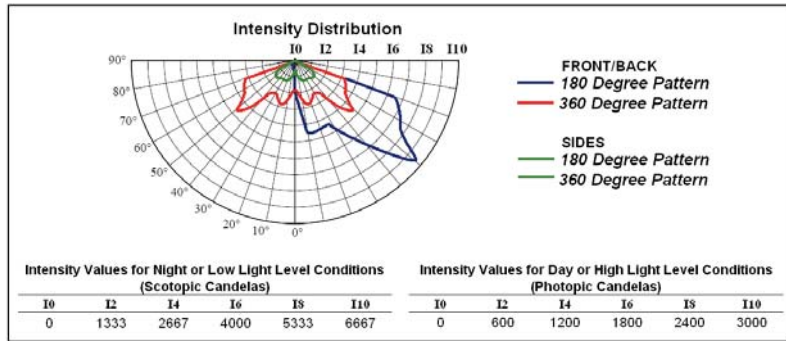

Each box is one mounting height.

150 Watt Equivalent Fixtures

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

Mounting Height (ft)	A	B	C	D	E	F	G	H
4	136.80	91.20	72.96	45.60	27.36	13.68	9.12	4.56
8	34.20	22.80	18.24	11.40	6.84	3.42	2.28	1.14
12	15.20	10.13	8.11	5.07	3.04	1.52	1.01	0.51
16	8.55	5.70	4.56	2.85	1.71	0.86	0.57	0.29
20	5.47	3.65	2.92	1.82	1.09	0.55	0.36	0.18
25	3.50	2.33	1.87	1.17	0.70	0.35	0.23	0.12
30	2.43	1.62	1.30	0.81	0.49	0.24	0.16	0.08
35	1.79	1.19	0.95	0.60	0.36	0.18	0.12	0.06

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

Mounting Height (ft)	A	B	C	D	E	F	G	H
4	60.00	40.00	32.00	20.00	12.00	6.00	4.00	2.00
8	15.00	10.00	8.00	5.00	3.00	1.50	1.00	0.50
12	6.67	4.44	3.56	2.22	1.33	0.67	0.44	0.22
16	3.75	2.50	2.00	1.25	0.75	0.38	0.25	0.13
20	2.40	1.60	1.28	0.80	0.48	0.24	0.16	0.08
25	1.54	1.02	0.82	0.51	0.31	0.15	0.10	0.05
30	1.07	0.71	0.57	0.36	0.21	0.11	0.07	0.04
35	0.78	0.52	0.42	0.26	0.16	0.08	0.05	0.03

Intensity Distribution

FRONT/BACK
- 180 Degree Pattern
- 360 Degree Pattern

SIDES
- 180 Degree Pattern
- 360 Degree Pattern

Intensity Values for Night or Low Light Level Conditions (Scotopic Candelas)

I0	I2	I4	I6	I8	I10
0	1333	2667	4000	5333	6667

Intensity Values for Day or High Light Level Conditions (Photopic Candelas)

I0	I2	I4	I6	I8	I10
0	600	1200	1800	2400	3000

8,300 Total Lumens for Night or Low Light Level Conditions (scotopic)

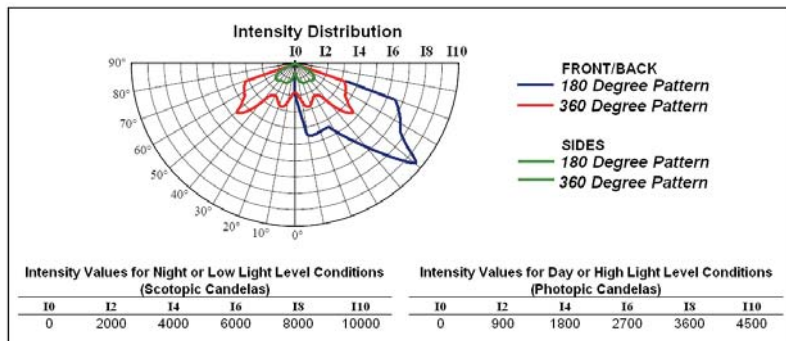3,640 Total Lumens for Day or High Light Level Conditions (photopic)

250 Watt Equivalent Fixtures

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

Intensity Distribution

FRONT/BACK
- 180 Degree Pattern
- 360 Degree Pattern

SIDES
- 180 Degree Pattern
- 360 Degree Pattern

Intensity Values for Night or Low Light Level Conditions (Scotopic Candelas)

I0	I2	I4	I6	I8	I10
0	2000	4000	6000	8000	10000

Intensity Values for Day or High Light Level Conditions (Photopic Candelas)

I0	I2	I4	I6	I8	I10
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)

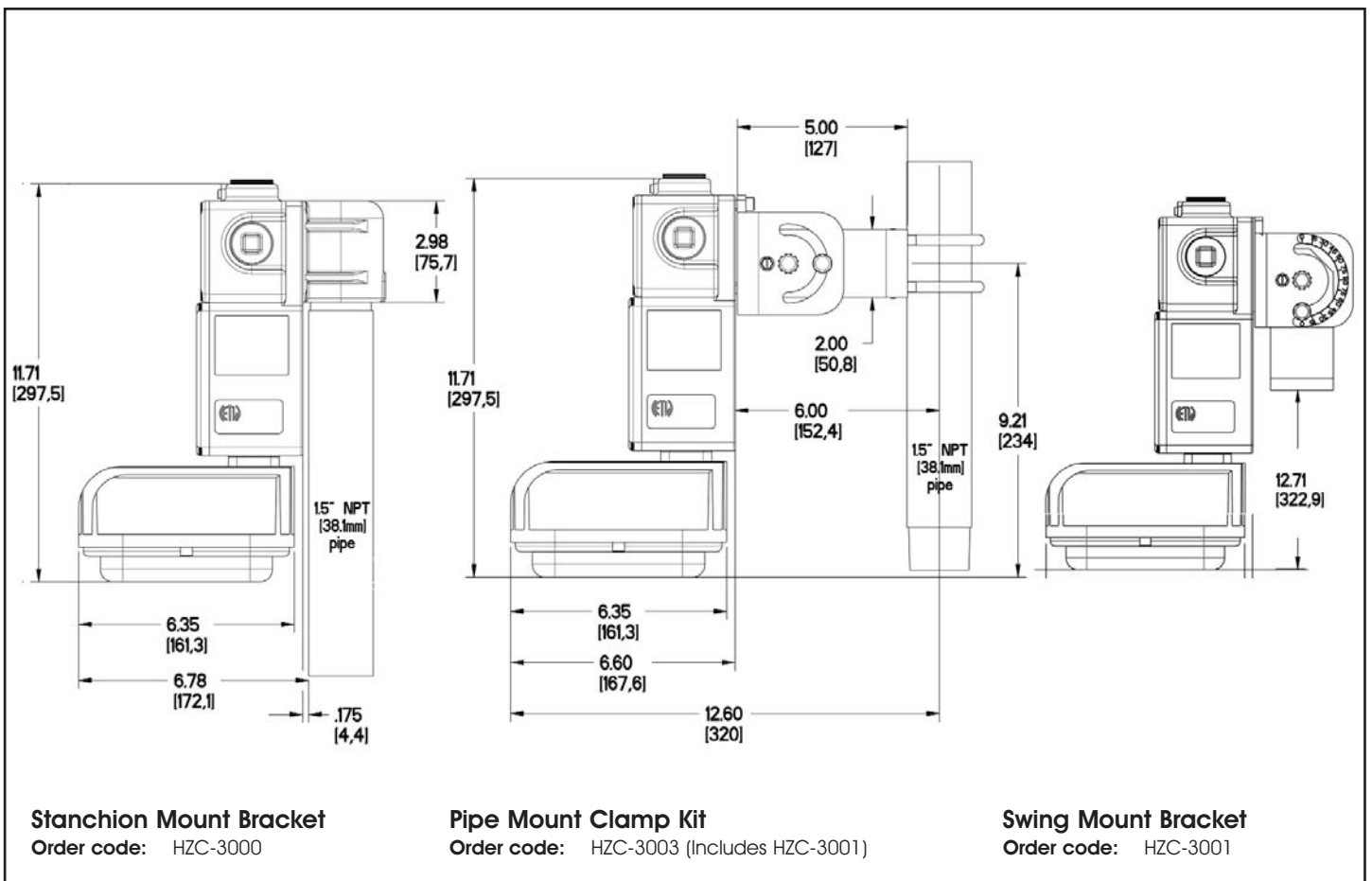**IES Files:** Available at www.dialight.com

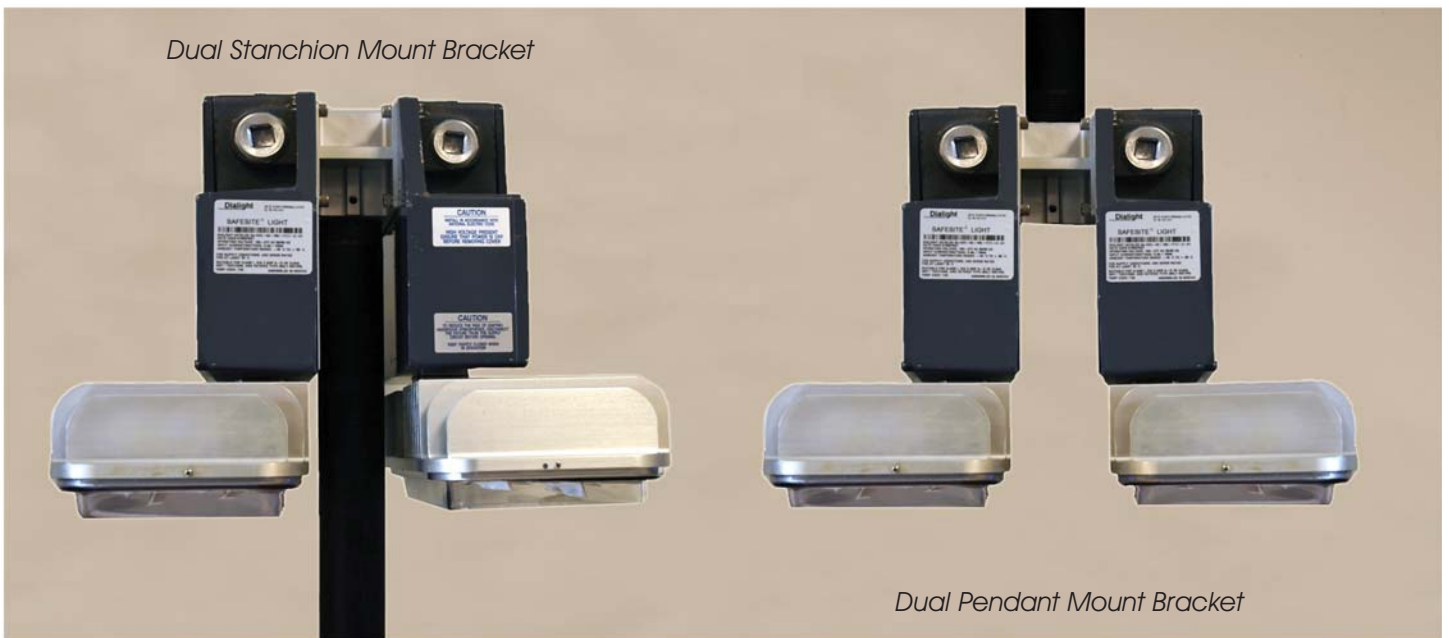*Stanchion Mount Bracket*   *Pipe Mount Clamp Kit*   *180° Adjustable Swing Mount Bracket*

STW Series Downlight Fixture Mounting Brackets - Single Units

Stanchion Mount Bracket
Order code: HZC-3000

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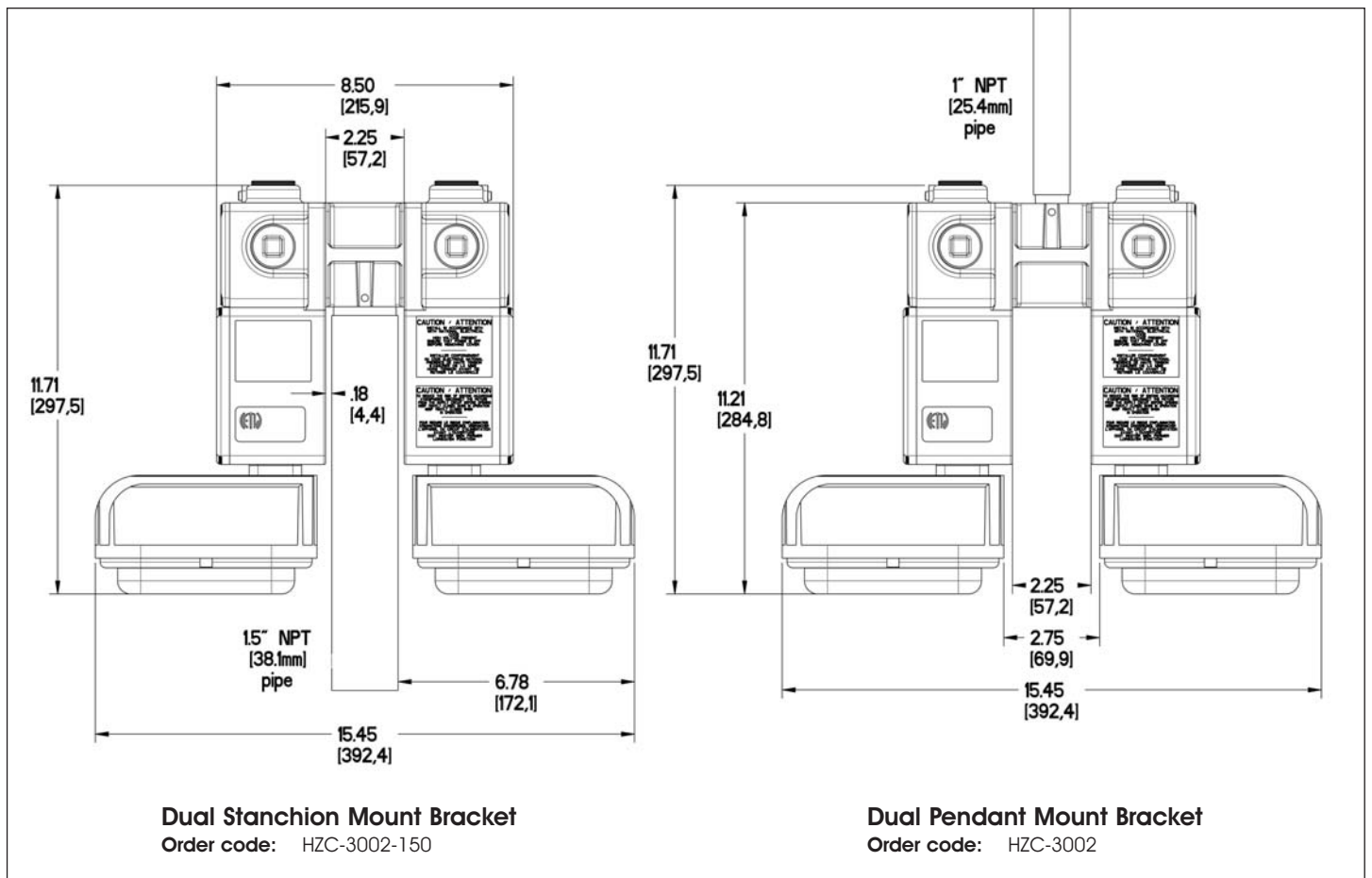
Swing Mount Bracket
Order code: HZC-3001

Dimensions in Inches [mm]

Dual Stanchion Mount Bracket

Dual Pendant Mount Bracket

STW Series Downlight Fixture Mounting Brackets - Dual Units

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

Dual Pendant Mount Bracket
Order code: HZC-3002

Dimensions in Inches [mm]

MDTFSTWBROCHURE_A