

Hazlux

Hazlux M1 Certification Guide

| LAMP TYPE | AMBIENT °C | MARINE LISTED (UL1598)* | ORDINARY LOCATIONS | CLASS I, ZONE 2, DIVISION 2 GLOBES – “TR” REFRACTOR WITH/ WITHOUT REFLECTORS | | NEMA 4X, IP66 (Suitable for Hose-down)* | SUPPLY WIRE SUITABLE C° | VOLTS |
|--------------------------|------------|-------------------------|--------------------|--|------------|---|-------------------------|-------|
| | | | | Temp. °C | Temp. Code | | | |
| 35 Watt H.P.S. Type S76 | 40 | Yes | Yes | 180 | T3A | Yes | 75 | 120 |
| | 55 | Yes | Yes | 200 | T3 | Yes | 90 | 120 |
| | 65 | No | Yes | 200 | T3 | Yes | † | 120 |
| 50 Watt H.P.S. Type S68 | 40 | Yes | Yes | 215 | T2D | Yes | 75 | 120 |
| | 55 | Yes | Yes | 215 | T2D | Yes | 90 | 120 |
| | 65 | No | Yes | 230 | T2C | Yes | † | 120 |
| 70 Watt H.P.S. Type S62 | 40 | Yes | Yes | 260 | T2B | Yes | 75 | 120 |
| | 55 | Yes | Yes | 260 | T2B | Yes | 90 | 120 |
| 100 Watt H.P.S. Type S54 | 40 | No | Yes | 280 | T2A | Yes | 110 | 120 |
| 9 Watt Fluorescent | 40 | Yes | Yes | 160 | T3C | Yes | 90 | 120 |
| 13 Watt Fluorescent | 40 | Yes | Yes | 160 | T3C | Yes | 90 | 120 |
| 18 Watt Fluorescent | 40 | Yes | Yes | 160 | T3C | Yes | 90 | 120 |
| 26 Watt Fluorescent | 40 | Yes | Yes | 200 | T3 | Yes | 90 | 120 |

† Contact Factory

Hazlux 1 Certification Guide (40°C Ambient)

| LAMP TYPE | WATTS | AMBIENT TEMP C° | CLASS I, ZONE 2, DIVISION 2 TEMPERATURE CODE | | MARINE LISTED (UL1598)* | NEMA 4X, IP66 (Suitable for Hose-down)* | ORDINARY LOCATIONS | SUPPLY WIRE TEMP. RATING C° |
|----------------------|-------|-----------------|--|------------------|-------------------------|---|--------------------|-----------------------------|
| | | | Globe*/Guard and Reflector | Reflector*/Guard | | | | |
| High Pressure Sodium | 50 | 40 | T3 | T3 | Yes | Yes | Yes | 90 |
| | 70 | 40 | T3 | T3 | Yes | Yes | Yes | 90 |
| | 100 | 40 | T3 | T3 | Yes | Yes | Yes | 90 |
| | 150 | 40 | T2C | T2C | Yes | Yes | Yes | 90 |
| Metal Halide | 70 | 40 | T3C | T3C | Yes | Yes | Yes | 90 |
| | 100 | 40 | T3 | T3 | Yes | Yes | Yes | 90 |
| | 175 | 40 | T2B | T2A | Yes | Yes | Yes | 90 |

* **NOTE REGARDING GLASS GLOBES AND REFRACTORS** – All Hazlux fixture assemblies shown in this Catalogue as CSA Certified are suitable for hose-down when fixture is off and glass has been allowed to cool. Tempered glass globes and refractors have better thermal shock resistance properties than non-tempered globes and refractors and should be considered whenever fixtures are subject to being splashed with significantly cooler liquids while illuminated (hot). Consult Thomas & Betts' Sales Office for more information.

Hazlux M3 Certification Guide (40°C Ambient)

| FIXTURE TYPE | WATTS | CLASS I, Zone 2, Groups IIA, IIB, IIC DIVISION 2 Groups A, B, C, D TEMPERATURE CODE | | CLASS II, DIVISION 1 & 2 GROUPS | | CLASS III, DIVISION 1 & 2 | | NEMA 4X, IP66 (Suitable for Hose-down)* | MARINE LISTED (UL1598)* |
|-------------------------|-------|--|-----------------|---|-----------------|---|-----------------|--|-------------------------------|
| | | Globe & Guard With or Without Reflector | 8" Refractor | Globe & Guard With or Without Reflector | 8" Refractor | Globe & Guard With or Without Reflector | 8" Refractor | | |
| High Pressure Sodium | 35 | T3A | T3A | EF&G | EF&G | Yes | Yes | Yes | Yes |
| | 50 | T3 | T3 | EF&G | EF&G | Yes | Yes | Yes | Yes |
| | 70 | T2B | T2B | EF&G | EF&G | Yes | Yes | Yes | Yes |
| | 100 | T2A | T2A | E&F | EF&G | — | Yes | Yes | Yes |
| | 150 | T1 | T1 | E&F | EF&G | — | Yes | Yes | — |
| Metal Halide | 70 | T2A | — | E&F | — | — | — | Yes | Yes |
| | 100 | T2A | — | E&F | — | — | — | Yes | Yes |
| Fluorescent | 9 | T3C | T3C | EF&G | EF&G | Yes | Yes | Yes | Yes |
| | 13 | T3C | T3C | EF&G | EF&G | Yes | Yes | Yes | Yes |
| | 18 | T3C | T3C | EF&G | EF&G | Yes | Yes | Yes | Yes |
| | 26 | T3C | T3C | EF&G | EF&G | Yes | Yes | Yes | Yes |
| Incandescent | 60 | T3 | T3 | E&F | EF&G | — | Yes | Yes | Yes |
| | 100 | T3 | T3 | E&F | EF&G | — | Yes | Yes | Yes |
| | 150 | T2B | T2B | — | — | — | Yes | Yes | Yes |

* **NOTE REGARDING GLASS GLOBES AND REFRACTORS** — All Hazlux fixture assemblies shown in this Catalogue as CSA Certified are suitable for hosedown when fixture is off and glass has been allowed to cool. Tempered glass globes and refractors have better thermal shock resistance properties than non-tempered globes and refractors and should be considered whenever fixtures are subject to being splashed with significantly cooler liquids while illuminated (not). Consult Thomas & Betts' Sales Office for more information.

Hazlux

Hazlux 3 (Standard Housing) Certification Guide (40°C Ambient)

| LAMP TYPE | WATTS | AMBIENT TEMP (Deg. C) | CLASS I, Zone 2, Groups IIA, IIB, IIC DIVISION 2 Groups A, B, C, D TEMPERATURE CODE | | CLASS II DIVISION 1 & 2 GROUPS | | UL1598 MARINE* | NEMA 4X, IP66* | SUPPLY WIRE TEMP. RATING (Deg. C) |
|----------------------|-------|-----------------------|---|----------------------------|---|----------------------------|----------------|----------------|-----------------------------------|
| | | | VGT/VGL22 5-1/2" Globe, Guard & Reflector | VRF22C5 12" Dia. Refractor | VGT/VGL22 5-1/2" Globe, Guard & Reflector | VRF22C5 12" Dia. Refractor | | | |
| High Pressure Sodium | 50 | 40 | T3C | T4 | EFG | EFG | Yes | Yes | 85 |
| | 70 | 40 | T3A | T3C | EFG | EFG | Yes | Yes | 85 |
| | 100 | 40 | T2C | T2D | EFG | EFG | Yes | Yes | 85 |
| | 150 | 40 | T2A | T2B | — | EFG | Yes | Yes | 90 |
| Metal Halide | 70 | 40 | T3C | — | EFG | — | Yes | Yes | 60 |
| | 100 | 40 | T3A | — | EFG | — | Yes | Yes | 75 |
| | 175 | 40 | T2A | T2C | — | EFG | Yes | Yes | 90 |
| | 250 | 40 | T2 | T2 | — | EFG | — | Yes | 125 |

NOTES: - Simultaneous Presence Applications: Some Hazlux 3 fixtures are suitable for simultaneous presence of gas and dust. Contact Thomas & Betts' Sales Office for specific information.
 - Tuffskin® Coated Optics: Many Hazlux 3 fixtures are approved with Tuffskin® (silicone) coating on glass optics. Contact Thomas & Betts' Sales Office for specific information.
 - For CSA Certification Information on other ambient temperatures and fixture configurations, consult Thomas & Betts' Sales Office.

Hazlux 3 (Refractor Globe Housing) Certification Guide (40°C Ambient)

| LAMP TYPE | WATTS | AMBIENT TEMP (Deg. C) | CLASS I, Zone 2, Groups IIA, IIB, IIC DIVISION 2 Groups A, B, C, D TEMPERATURE CODE | | CLASS II DIVISION 1 & 2 GROUPS | | UL1598 MARINE* | NEMA 4X, IP66* | SUPPLY WIRE TEMP. RATING (Deg. C) |
|----------------------|-------|-----------------------|---|-------------------------------------|--|-------------------------------------|----------------|----------------|-----------------------------------|
| | | | VGT31S 7-3/4" Globe, Guard & Reflector | VGL31R5 7-3/4" Dia. Refractor Globe | VGT31S 7-3/4" Globe, Guard & Reflector | VGL31R5 7-3/4" Dia. Refractor Globe | | | |
| High Pressure Sodium | 50 | 40 | T3C | T3C | EFG | EFG | Yes | Yes | 60 |
| | 70 | 40 | T3A | T3A | EFG | EFG | Yes | Yes | 85 |
| | 100 | 40 | T3 | T3 | EFG | EFG | Yes | Yes | 85 |
| | 150 | 40 | T2B | T2B | EFG | EFG | Yes | Yes | 90 |
| Metal Halide | 70 | 40 | T3C | T3C | EFG | EFG | Yes | Yes | 60 |
| | 100 | 40 | T3A | T3A | EFG | EFG | Yes | Yes | 75 |
| | 175 | 40 | T2B | T2B | EFG | EFG | Yes | Yes | 90 |
| | 250 | 40 | T2 | T2 | EF | EF | — | Yes | 90 |

NOTES: - Simultaneous Presence Applications: Some Hazlux 3 fixtures are suitable for simultaneous presence of gas and dust. Contact Thomas & Betts' Sales Office for specific information.
 - Tuffskin® Coated Optics: Many Hazlux 3 fixtures are approved with Tuffskin® (silicone) coating on glass optics. Contact Thomas & Betts' Sales Office for specific information.
 - For CSA Certification Information on other ambient temperatures and fixture configurations, consult Thomas & Betts' Sales Office.

Hazlux 3 (Large Housing) Certification Guide (40°C Ambient)

| LAMP TYPE | WATTS | AMBIENT TEMP (Deg. C) | CLASS I, Zone 2, Groups IIA, IIB, IIC DIVISION 2 Groups A, B, C, D TEMPERATURE CODE | | | CLASS II DIVISION 1 & 2 GROUPS | | | UL1598 MARINE* | NEMA 4X, IP66* | SUPPLY WIRE TEMP. RATING (Deg. C) |
|----------------------|-------|-----------------------|---|----------------------------|---------------------|------------------------------------|----------------------------|---------------------|----------------|----------------|-----------------------------------|
| | | | VGT31 Globe With Guard & Reflector | VRF31C5 12" Dia. Refractor | Reflector with Lens | VGT31 Globe With Guard & Reflector | VRF31C5 12" Dia. Refractor | Reflector with Lens | | | |
| High Pressure Sodium | 200 | 40 | T2 | T2A | T2A | EF | EFG | EFG | Yes | Yes | 90 |
| | 250 | 40 | 325°C | 325°C | 325°C | EF | EFG | EFG | Yes | Yes | 90 |
| | 400 | 40 | T2A | T2B | T2B | — | EFG | EF | — | Yes | 110 |
| HPS | 400** | 40 | T1 | T1 | T1 | — | EFG | EF | — | Yes | 110 |
| Metal Halide | 250 | 40 | T2 | T2A | T2A | — | EFG | EFG | — | Yes | 90 |
| | 400 | 40 | 350°C | 325°C | 325°C | — | EFG | EF | — | Yes | 110 |

NOTES: - 400 Watt HPS T-numbers based on BT/E/ED 37 diffuse coated lamp. Contact Thomas & Betts' Sales Office for certification information when using other lamps.
 - Simultaneous Presence Applications: Some Hazlux 3 fixtures are suitable for simultaneous presence of gas and dust. Contact Hazlux for specific information.
 - Tuffskin® Coated Optics: Many Hazlux 3 fixtures are approved with Tuffskin® (silicone) coating on glass optics. Contact Thomas & Betts' Sales Office for specific information.
 - For CSA Certification Information on other ambient temperatures and fixture configurations, consult Thomas & Betts' Sales Office.
 ** 400 Watt HPS T-Numbers based on ED-18 diffuse coated lamp.

* **NOTE REGARDING GLASS GLOBES AND REFRACTORS** — All Hazlux fixture assemblies shown in this Catalogue as CSA Certified are suitable for hosedown when fixture is off and glass has been allowed to cool. Tempered glass globes and refractors have better thermal shock resistance properties than non-tempered globes and refractors and should be considered whenever fixtures are subject to being splashed with significantly cooler liquids while illuminated (hot). Consult Thomas & Betts' Sales Office for more information.