

Area Lighting — Hazlux® 3 Class I, Div 2

Fixtures for Class I, Division 2; Class II; Wet and Marine Locations

Features

- Modular fixture components enable hundreds of easy-to-assemble combinations
- Cast copper-free aluminum housings and mounting covers are lightweight and resist corrosion
- Electrostatically applied powder-coat finish for added corrosion resistance
- Thermal shock-resistant glass globes and refractors protect lamps in wet, marine and outdoor applications
- All glass globes and refractors are fully threaded and provide a dust-tight, watertight seal with silicone rubber gaskets
- Standard globe guards are made from rugged polycarbonate plastic or cast aluminum with keyhole slots for ease of installation and do not interfere with globe threads
- All exposed hardware is stainless steel for corrosion resistance and screws are slotted, hex-head style to further ease installation
- Comprehensive UL Listings for Class I, Division 2; Class I, Zone 2; and Class II
- Available for use with high-pressure sodium and metal halide lamps up to 400 watts
- Eight different mounting styles — rigid pendant, flexible pendant, cone pendant, ceiling, wall, 25° angle stanchion, straight stanchion and HazVetor® Adapter Ring
- Three ballast housing choices — standard tank, R-tank and large tank
- Heat sinks in ballast housings enable ballasts to operate cooler, provide longer life and improve temperature performance
- Bright white FRP (fiberglass-reinforced polyester) angle or dome reflectors resist corrosion while maximizing lighting effectiveness
- Many optical choices — standard globes, threaded refractor globes, 7¾" globes, 12" refractors, enclosed high-bay reflectors and more
- All mounting covers provided with dual-lead ground wire for connection to field and fixture grounds
- Optional HazCote® coating for extremely corrosive applications
- Optional stainless steel inserts for guard screws and ballast tank closure screw for enhanced corrosion resistance
- Optional Tuff-Skin® silicone coating on glass optics contains fragments if glass is broken (for food processing)
- Optional instant restrike starter for HPS lamps up to 150 watts restarts hot HPS lamp after momentary power failure



Materials and Finishes

- Ballast Housings — Copper-free aluminum, powder finish
- Mounting Covers — Copper-free aluminum, powder finish
- Guards — Polycarbonate, copper-free aluminum or steel
- Globes — Tempered glass or borosilicate glass
- Refractor Globes — Borosilicate glass
- Refractors (12") — Borosilicate glass
- Hardware — Stainless steel
- Reflectors — Fiberglass-reinforced polyester (standard dome, angle); anodized aluminum (deep dome, high bay enclosed)
- Gaskets — High-temperature silicone rubber

Certifications/Compliances



- UL® Listed (UL844) for:
 - Class I, Division 2, Groups A, B, C, D*
 - Class I, Zone 2, Groups IIA, IIB, IIC
 - Class II, Divisions 1 & 2, Groups E, F, G
 - Class III†
 - Wet locations
- UL® Listed (UL1598A) for:
 - Marine Locations
 - NEMA 4X, IP66
 - CSA Certified (Contact Hazlux)

* See page I-3 for T-Code Rating.

† See pages I-11–I-12 for ratings on specific wattages.

Tuff-Skin is a registered trademark of Thomas Manufacturing Corp.

Area Lighting — Hazlux® 3 Class I, Div 2

Hazlux® 3 Certification Guide (40° C Ambient) Standard Ballast Housing, 5½" Thread

LAMP TYPE	WATTS	AMBIENT TEMP (DEG. C)	CLASS I, DIVISION 2 GROUPS A, B, C, D TEMPERATURE CODE		CLASS II DIVISION 1 & 2 GROUPS		UL 1598A MARINE	NEMA 4X*	SUPPLY WIRE TEMP. RATING (DEG. C)
			VGT/VGL22 5½" GLOBE, GUARD & REFLECTOR	VRF22C5 12" DIA. REFRACTOR	VGT/VGL22 5½" GLOBE, GUARD & REFLECTOR	VRF22C5 12" DIA. REFRACTOR			
High-Pressure Sodium	50	40	T3C	T4	EFG	EFG	Yes	Yes	90
	70	40	T3A	T3C	EFG	EFG	Yes	Yes	90
	100	40	T2C	T2D	EFG	EFG	Yes	Yes	90
	150	40	T2A	T2B	—	EFG	Yes	Yes	90
	70	40	T3C	T2C	EFG	EFG	Yes	Yes	90
Metal Halide	100	40	T3A	T2C	EFG	EFG	Yes	Yes	90
	175	40	T2A	T2C	—	EFG	Yes	Yes	90
	250	40	T2	T2	—	EFG	—	Yes	125

Notes: 1. Simultaneous presence applications: Some Hazlux® 3 fixtures are UL Listed for simultaneous presence of gas and dust. Contact Hazlux® for specific information.

2. Tuff-Skin® Coated Optics: Many Hazlux® 3 fixtures are UL Listed with Tuff-Skin® (silicone) coating on glass optics. Contact Hazlux® for specific information.

3. For UL® and CSA Certification Information on other ambient temperatures and fixture configurations, consult the factory or refer to the Hazlux® Application Guide (Order Number: H7027).



Lighting — Hazlux® Hazardous Location Lighting

Hazlux® 3 Certification Guide (40° C Ambient) R-Tank Ballast Housing, 7¾" Thread

LAMP TYPE	WATTS	AMBIENT TEMP (DEG. C)	CLASS I, DIVISION 2 GROUPS A, B, C, D TEMPERATURE CODE		CLASS II DIVISION 1 & 2 GROUPS		UL 1598A MARINE	NEMA 4X*	SUPPLY WIRE TEMP. RATING (DEG. C)
			VGT31S 7¾" GLOBE, GUARD & REFLECTOR	VGL31R5 7¾" DIA. REFRACTOR GLOBE	VGT31S 7¾" GLOBE, GUARD & REFLECTOR	VGL31R5 7¾" DIA. REFRACTOR GLOBE			
High-Pressure Sodium	50	40	T3C	T3C	EFG	EFG	Yes	Yes	90
	70	40	T3A	T3A	EFG	EFG	Yes	Yes	90
	100	40	T2D	T3	EFG	EFG	Yes	Yes	90
	150	40	T2B	T2B	EFG	EFG	Yes	Yes	90
	70	40	T3	T3	EFG	EFG	Yes	Yes	90
Metal Halide	100	40	T3	T3	EFG	EFG	Yes	Yes	90
	175	40	T2B	T2B	EFG	EFG	Yes	Yes	90
	250	25	T2	T2	EF	EFG	—	Yes	90

Notes: 1. Simultaneous presence applications: Many Hazlux® 3 fixtures are UL® Listed for simultaneous presence of gas and dust. Contact Hazlux® for specific information.

2. Tuff-Skin® Coated Optics: Many Hazlux® 3 fixtures are UL® Listed with Tuff-Skin® (silicone) coating on glass optics. Contact Hazlux® for specific information.

3. For UL® and CSA Certification Information on other ambient temperatures and fixture configurations, consult the factory or refer to the Hazlux® Application Guide (Order Number: H7027).

* All Hazlux® fixture assemblies shown in this Buyers Guide as UL® Listed or CSA Certified for marine applications are suitable for hosedown when fixture is off and glass has been allowed to cool. Tempered glass globes and refractors have better thermal-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 factory for more information.



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Area Lighting — Hazlux® 3 Class I, Div 2

Hazlux® 3 Certification Guide (40° C Ambient) Large Ballast Housing, 7¾" Thread



LAMP TYPE	WATTS	AMBIENT TEMP (DEG. C)	CLASS I, DIVISION 2 GROUPS A, B, C, D TEMPERATURE CODE			CLASS II DIVISION 1 & 2 GROUPS			UL		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	1598A MARINE	NEMA 4X*	
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
Metal Halide	400	40	T2A	T2B	T2B	—	EFG	EF	—	Yes	110
	250	40	T2	T2A	T2A	—	EFG	EFG	—	Yes	90
Metal Halide	400	40	350° C	325° C	325° C	—	EFG	EF	—	Yes	110

Notes: 1. 400-Watt HPS T-numbers based on BT/ED 37 diffuse coated lamp. Contact Hazlux® for certification information when using other lamps.

2. Simultaneous presence applications: Some Hazlux® 3 fixtures are UL® Listed for simultaneous presence of gas and dust. Contact Hazlux® for specific information.

3. Tuff-Skin® Coated Optics: Many Hazlux® 3 fixtures are UL® Listed with Tuff-Skin® (silicone) coating on glass optics. Contact Hazlux® for specific information.

4. For UL® and CSA Certification Information on other ambient temperatures and fixture configurations, consult the factory or refer to the Hazlux® Application Guide (Order Number: H7027).

Hazlite® M3 Certification Guide (40° C Ambient)

The data listed in the table below is for UL844/1598A listing at 40° C ambient.



FIXTURE TYPE	WATTS	SERIES	CLASS 1, DIVISION 2 GROUPS A, B, C, D TEMPERATURE CODE		CLASS II DIVISION 1 & 2 GROUPS		CLASS III DIVISION 1 & 2		NEMA 4X (SUITABLE FOR HOSEDOWN)*	MARINE LISTED (UL 1598A)*
			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	DSM	T3A	T3A	EF&G	EF&G	Yes	Yes	Yes	Yes
	50	DSM	T3	T3	EF&G	EF&G	Yes	Yes	Yes	Yes
	70	DSM	T2B	T2B	EF&G	EF&G	Yes	Yes	Yes	Yes
	100	DSM	T2A	T2A	E&F	EF&G	—	Yes	Yes	Yes
Fluorescent	150	DSM	325° C	325° C	E&F	EF&G	—	Yes	Yes	—
	9	DFB	T3C	T3C	EF&G	EF&G	Yes	Yes	Yes	Yes
	13	DFB	T3C	T3C	EF&G	EF&G	Yes	Yes	Yes	Yes
	18	DFB	T3C	T3C	EF&G	EF&G	Yes	Yes	Yes	Yes
	26	DFB	T3	T3	EF&G	EF&G	Yes	Yes	Yes	Yes
Incandescent	60	DIM	T3	T3	E&F	EF&G	—	Yes	Yes	Yes
	100	DIM	T3	T3	E&F	EF&G	—	Yes	Yes	Yes
	150	DIM	T2B	T2B	—	EF&G	—	Yes	Yes	Yes

* All Hazlux® fixture assemblies shown in this Buyers Guide as UL® Listed or CSA Certified for marine applications are suitable for hosedown when fixture is off and glass has been allowed to cool. Tempered glass globes and refractors have better thermal-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 factory for more information.

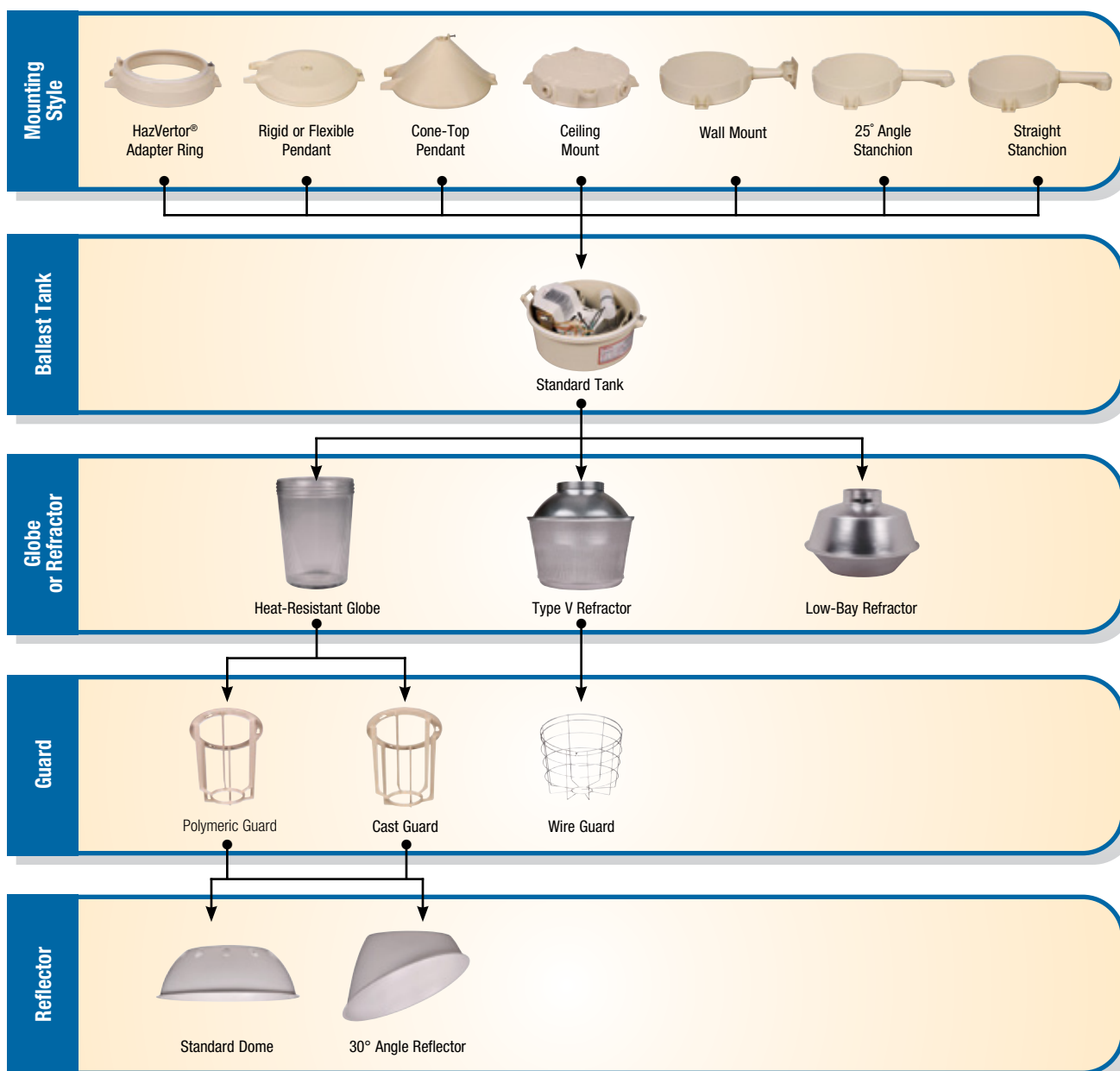
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Area Lighting — Hazlux® 3 Class I, Div 2

Hazlux® 3 Standard Housing Fixture Assembly Guide



Lighting — Hazlux® Hazardous Location Lighting



Area Lighting — Hazlux® 3 Class I, Div 2

Hazlux® 3 Standard Housing Fixture Catalog Numbering System

- Class I — Zone 2, Groups IIC, IIB, IIA
 — Division 2, Groups A, B, C and D
 Class II — Division 1 and 2, Groups E, F and G
 Class III
 • UL® Listed (UL1598A) for Marine Locations
 • UL844
 • NEMA 4X, IP66



Contact your Thomas & Betts sales representative to verify classification.



D	S	Ø	15	H	04	0	-	TGL	-	P2	E1	F
1	2	3	4	5	6	7		8		9	11	12

1 Fixture Series

D = Hazlux® 3 Fixture

2 Lamp Type

S = High-Pressure Sodium
H = Metal Halide
C = 150-Watt HPS 100V Only

3 Starter Circuit/Quartz Options

Ø = Standard Fixture (Without Options)
P = Pulse Start (MH Only)
Q = Quartz Auxiliary Option (Not Hazardous Rated)
R = Instant Restart
J = Auto Shutoff Starter (HPS Only)
Y = Auto Shutoff Starter with Quartz Restrike (HPS only, non-UL)

4 Lamp Wattage

05 = 50 Watts **17** = 175 Watts
07 = 70 Watts **20** = 200 Watts
10 = 100 Watts **25** = 250 Watts
15 = 150 Watts

5 Ballast Circuit

H = High Reactance
C = Constant Wattage Autotransformer (CWA)
I = CWI
P = Reactor

(All ballasts high power factor)

6 Voltage/Frequency

03 = 120/277V, 60 Hz
04 = 120/208/240/277V, 60 Hz
09 = 120/277/347V, 60 Hz (CSA)
12 = 120V, 60 Hz
24 = 240V, 60 Hz
27 = 277V, 60 Hz
28 = 208V, 60 Hz
34 = 347V, 60 Hz
48 = 480V, 60 Hz
225 = 220V, 50 Hz
245 = 240V, 50 Hz

7 Ballast Housing Style

Ø = Standard Housing (150W HPS, 250W MH)
S = Standard Housing with Stainless Steel Inserts

8 Optical Assembly Options

TG = Thermal Shock-Resistant Globe
TGL = Thermal Shock-Resistant Globe with Polymeric Guard
SG = Tuff-Skin® Coated Globe
SGL = Tuff-Skin® Coated Globe with Polymeric Guard
R5 = 12-in. Glass Refractor, Type V
R5G = 12-in. Glass Refractor, Type V with Wire Guard
TGC = Thermal Shock-Resistant Globe with Cast Guard
SGC = Tuff-Skin® Coated Globe with Cast Guard
CBDL = Closed Bottom Refractor with Polycarbonate Lens (Non-UL)

9 Mounting Style

A2 = ¾" Cone-Top Pendant
A3 = 1" Cone-Top Pendant
B2 = ¾" Wall Mount
B3 = 1" Wall Mount
C2 = ¾" Ceiling Mount
C3 = 1" Ceiling Mount
F2 = ¾" Flexible Pendant
F3 = 1" Flexible Pendant
HV1 = HazVector® Ring — Class I, Div. 2, Zone 2
L4 = 1¼" Straight Stanchion
L5 = 1½" Straight Stanchion
P2 = ¾" Rigid Pendant
P3 = 1" Rigid Pendant
S4 = 1¼" 25° Angle Stanchion
S5 = 1½" 25° Angle Stanchion

10 Special Options

T = HazCote® Custom Corrosion Coating (Consult Factory)
G = Gray Color Option

11 UNIPAK® Options

E = UNIPAK® with Clear Lamp
E1 = UNIPAK®, Clear Lamp, Dome Reflector
E2 = UNIPAK®, Clear Lamp, Angle Reflector
D = UNIPAK® with Dual Arc Lamp
D1 = UNIPAK®, Dual-Arc Lamp, Dome Reflector
D2 = UNIPAK®, Dual-Arc Lamp, Angle Reflector
U = UNIPAK®, No Lamp

12 Fusing Options

F = Fuse Block(s) with Fuse(s)

13 CSA Certification

C = CSA Nameplate

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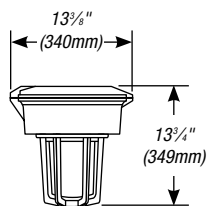
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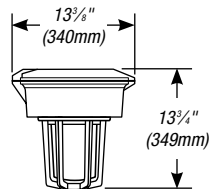
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Area Lighting — Hazlux® 3 Class I, Div 2

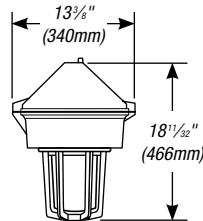
Dimensions — Standard Ballast Housing with Globe and Guard



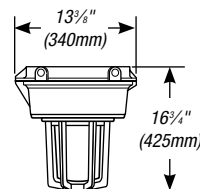
Rigid Pendant



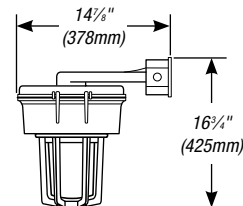
Flexible Pendant



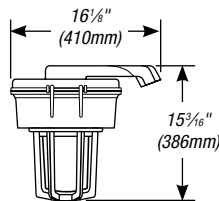
Cone-Top Pendant



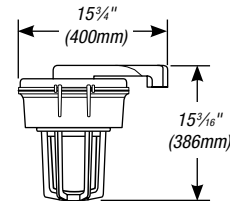
Ceiling Mount



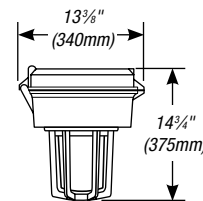
Wall Mount



25° Angle Stanchion Mount

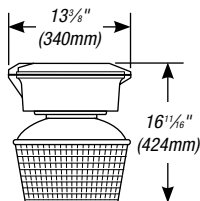


Straight Stanchion

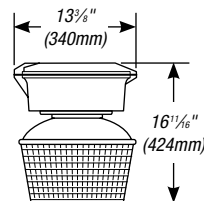


HazVector® Ring

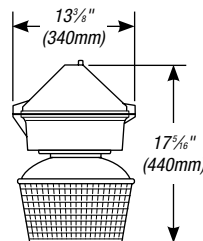
Dimensions — Standard Ballast Housing with 12" Refractor and Guard



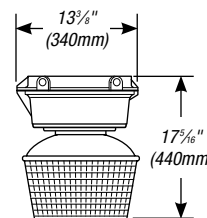
Rigid Pendant



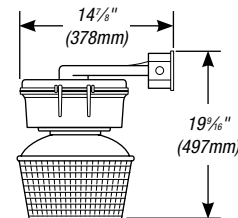
Flexible Pendant



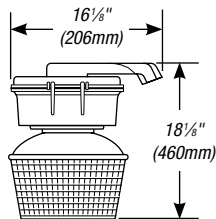
Cone-Top Pendant



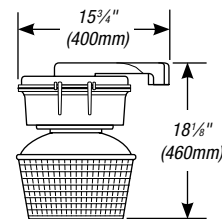
Ceiling Mount



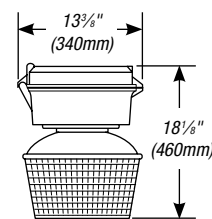
Wall Mount



25° Angle Stanchion Mount



Straight Stanchion



HazVector® Ring

Class I — Zone 2, Groups IIC, IIB, IIA
— Division 2, Groups A, B, C and D
Class II — Division 1 and 2, Groups E, F and G
Class III

- UL® Listed (UL1598A) for Marine Locations
- UL844
- NEMA 4X, IP66



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