

Dental Light Pre-Installation Guide



(Ceiling, Track, & Wall/Cabinet Mounted)

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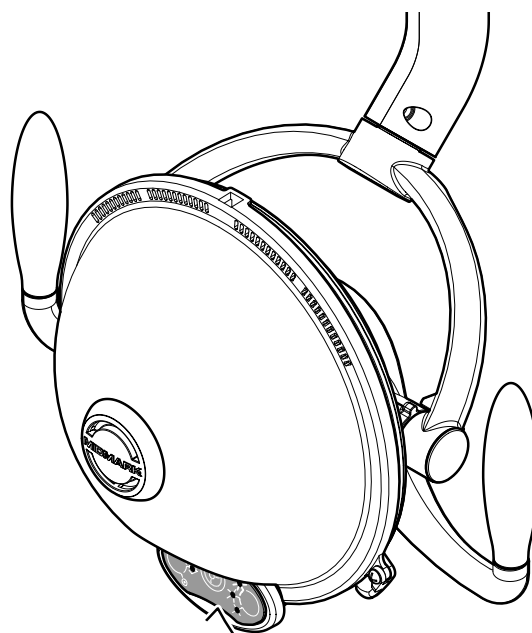
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GENERAL SPECIFICATIONS

NOTE

The following specifications apply to all versions of the Midmark Dental Light (except where noted). The sections that follow are separated by style (*Ceiling, Track, Wall / Cabinet Mt.*).

<u>Description</u>	<u>Data</u>
Electrical Requirements:	115 / 230 VAC $\pm$ 10%, 50/60 HZ 1.2 / 0.6 amp, single phase
Bulb:	24 VAC, 150W, G 6.35 size, 2 pin prefocused, C-6 Oval filament, Halogen Photo Optic Lamp
Fuse:	Type 3AG, 1.5A, 250 VAC 1/4 x 1-1/4 in., Type T (Time Delay)
Power to Bulb @ Maximum Intensity:	15.7 VAC, 5.5 amps
Classifications:	Class 1, Type B, Applied Part, Ordinary Equipment
Certifications: Midmark Corporation.....	ISO-9001
Complies to the applicable requirements of:.....	UL2601-1, CAN/CSA 22.2, #601.1-M90, MDD 93/42/EEC, Annex VII [EN60601-1, EN60601-1-2]



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NOTE

The following weight and torque values are for the light systems only.

Weight (max.):

Ceiling Light.....	70 lbs (31.7 kg)
Track Light	78 lbs. (35.4 kg)
Wall / Cabinet Light	66 lbs (29.9 kg)

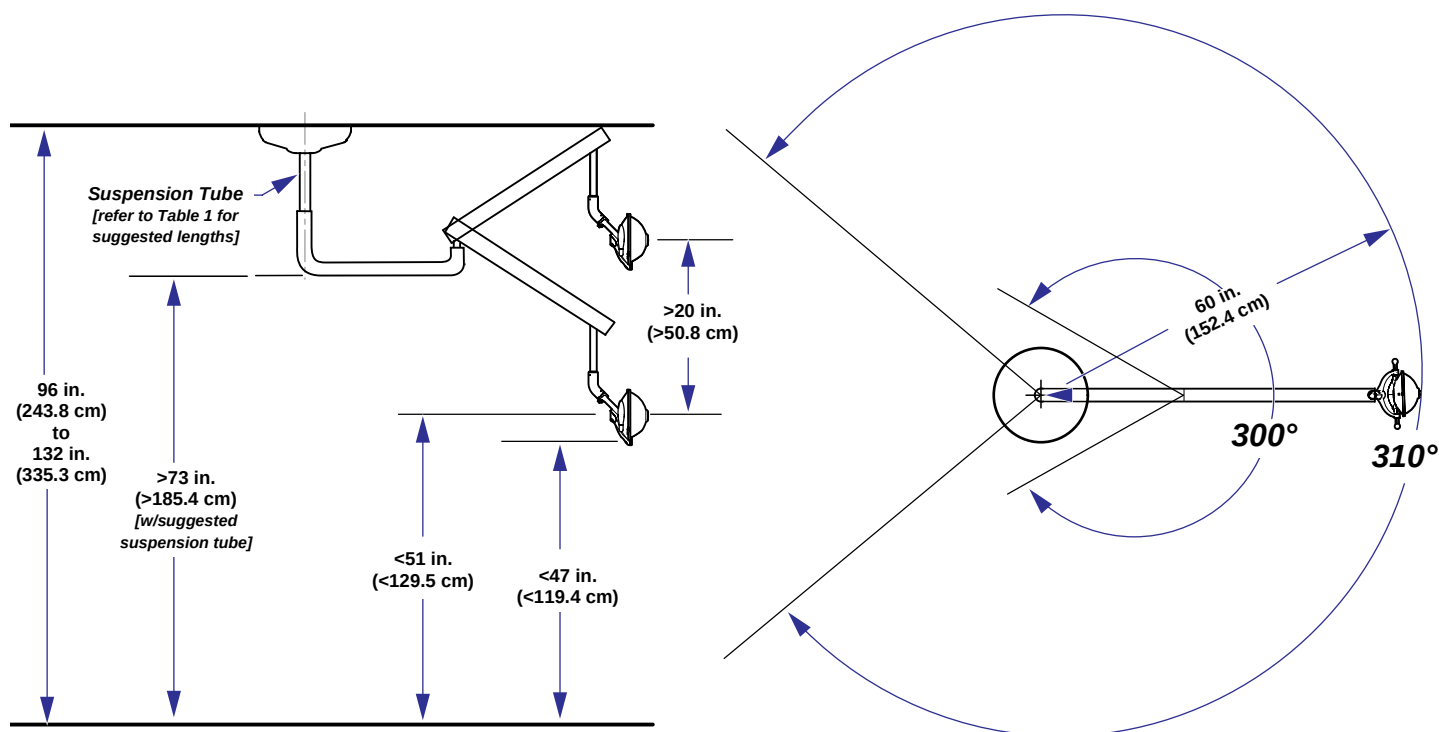
Torque (max.):

Ceiling Light.....	70 ft-lbs. (94.9 N·m)
Track Light	25 ft-lbs. (94.9 N·m)
Wall / Cabinet Light	170 ft-lbs. (230.5 N·m)

LIGHT PRE-INSTALL

Ceiling Light

DIMENSIONS [Figure 1]



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Table 1. Suspension Tube Recommendations (Ceiling Light)

Mounting Height	Suspension Tube Kit [includes wire harness(es), & hardware]	Suspension Tube Length
96 to 98 in. (243.8 to 248.9 cm)	153651-001	10.25 in. (26.0 cm)
99 to 102 in. (251.5 to 259.1 cm)	153651-002	14.25 in. (36.2 cm)
103 to 106 in. (261.6 to 269.2 cm)	153651-003	18.25 in. (46.3 cm)
107 to 110 in. (271.8 to 279.4 cm)	153651-004	22.25 in. (56.5 cm)
111 to 114 in. (281.9 to 289.5 cm)	153651-005	26.25 in. (66.7 cm)
115 to 118 in. (292.1 to 299.7 cm)	153651-006	30.25 in. (76.8 cm)
119 to 122 in. (302.3 to 309.9 cm)	153651-007	34.25 in. (87.0 cm)
123 to 126 in. (312.4 to 320.0 cm)	153651-008	38.25 in. (97.1 cm)
127 to 130 in. (322.6 to 330.2 cm)	153651-009	42.25 in. (107.3 cm)
>130 in. (>330.2 cm)	153651-010	46.25 in. (117.5 cm)

CEILING SUPPORT STRUCTURE [Figure 2]**NOTE**

Midmark does not supply the ceiling support structure. The illustrations in Figure 2 are for suggestion only. Consult a qualified professional to install the appropriate support structure for the facility.

The weight and torque listed is for the lighting system only.

Ceiling Light System (only)

Weight (max.):70 lbs. (31.7 kg)

Torque (max.):70 ft-lbs. (94.9 N m)

The ceiling structure must support the light system without deflection. To prevent the suspension arm from drifting, the ceiling plate must deflect no more than **1/16 in. (1.6 mm) over a 12 in. (30.5 cm) distance**.

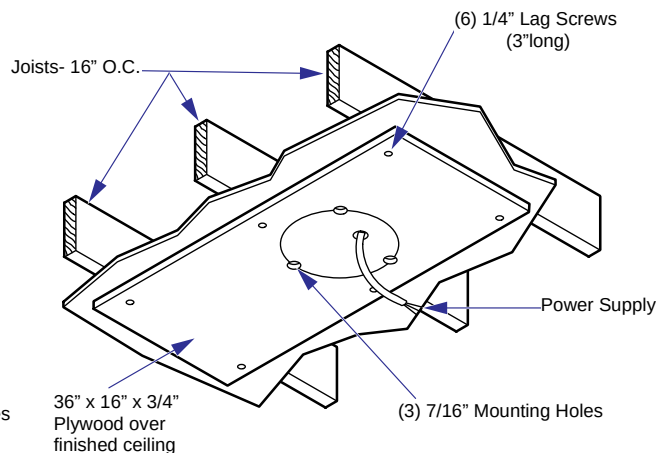
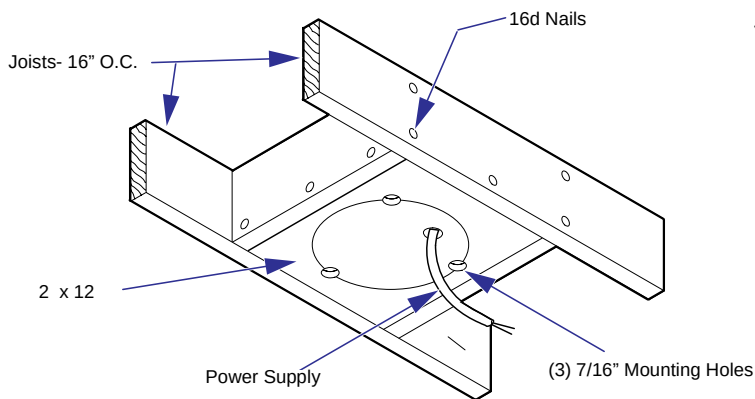
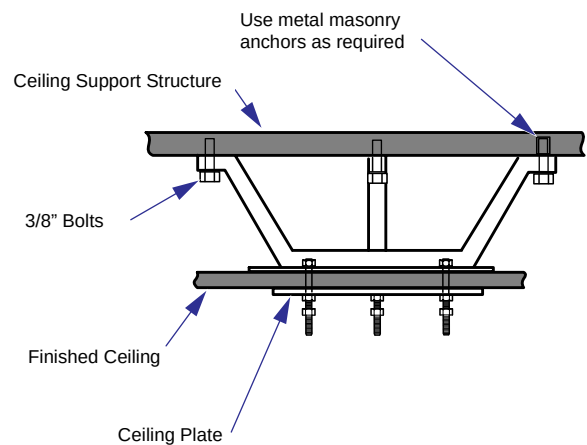
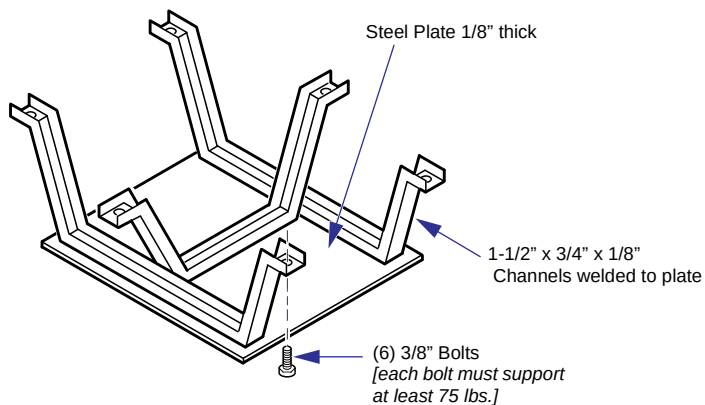
Wood Framed Ceiling**Suspended Ceilings**

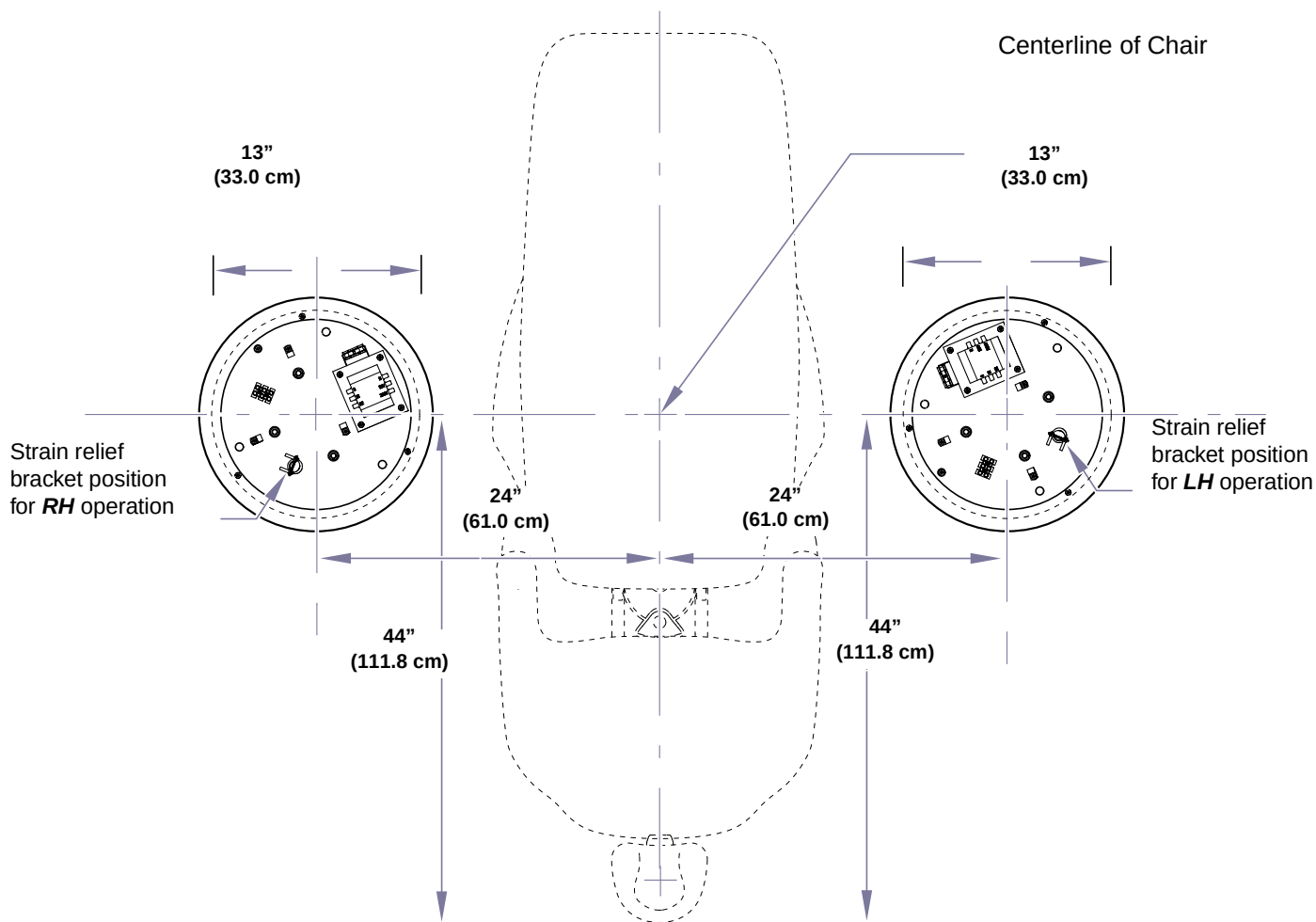
Figure 2. Recommended Ceiling Support Structure (Ceiling Light)

LIGHT PRE-INSTALL**RECOMMENDED MOUNTING LOCATIONS***[Figure 3]***EQUIPMENT ALERT**

The orientation of the ceiling plate is crucial to ensure proper range of motion. Rotate the ceiling plate until the strain relief bracket is positioned as shown in Figure 1.

NOTE

The ceiling light system should be mounted on the opposite side of the doctor's normal work position.



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Figure 3. Recommended Mounting Locations (Ceiling Light)

Track Light

DIMENSIONS [Figure 4]

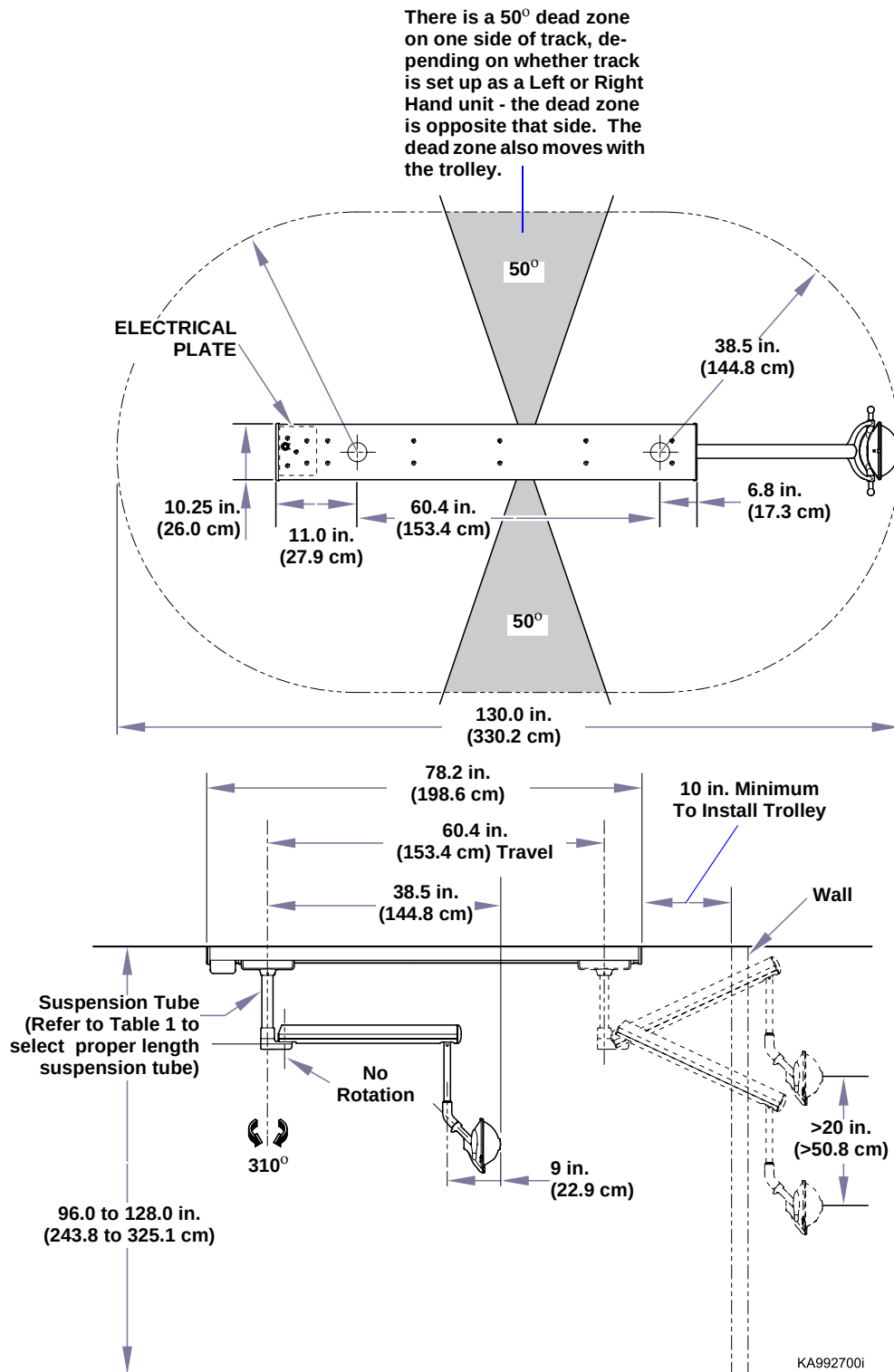


Figure 4. Dimensions (Track Light)

LIGHT PRE-INSTALL

Table 2: Suspension Tube Recommendations (Track Light)

Mounting Height	Suspension Tube Kit <i>[includes wire harness(es), & hardware]</i>	Suspension Tube Length
<96 in. (243.8 cm)	153651-001	10.25 in. (26.0 cm)
96 to 98 in. (243.8 to 248.9 cm)	153651-002	14.25 in. (36.2 cm)
99 to 102 in. (251.5 to 259.1 cm)	153651-003	18.25 in. (46.3 cm)
103 to 106 in. (261.6 to 269.2 cm)	153651-004	22.25 in. (56.5 cm)
107 to 110 in. (271.8 to 279.4 cm)	153651-005	26.25 in. (66.7 cm)
111 to 114 in. (281.9 to 289.5 cm)	153651-006	30.25 in. (76.8 cm)
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119 to 122 in. (302.3 to 309.9 cm)	153651-008	38.25 in. (97.1 cm)
123 to 126 in. (312.4 to 320.0 cm)	153651-009	42.25 in. (107.3 cm)
>126 in. (320.0 cm)	153651-010	46.25 in. (117.5 cm)

CEILING SUPPORT STRUCTURES [Figures 5 & 6]**NOTE**

Midmark does not supply the ceiling support structure. The illustrations in Figures 5 & 6 are for suggestion only. Have a qualified professional install the appropriate support structure for the facility.

The weight and torque listed is for the lighting system only.

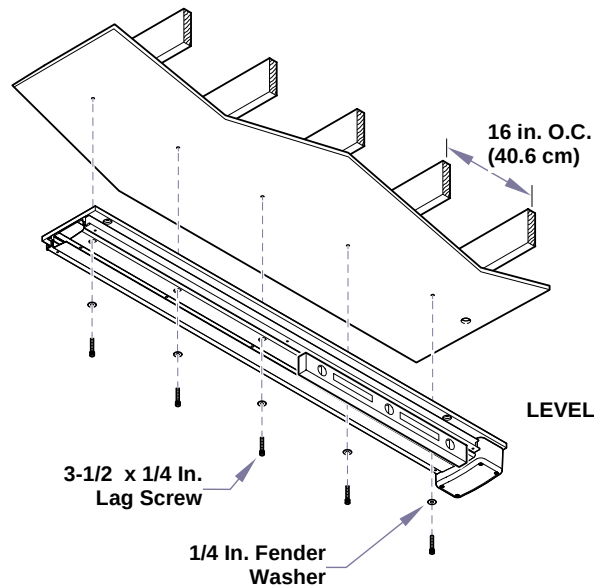
Track Light System (only)

Weight (max.):78 lbs. (35.4 kg)

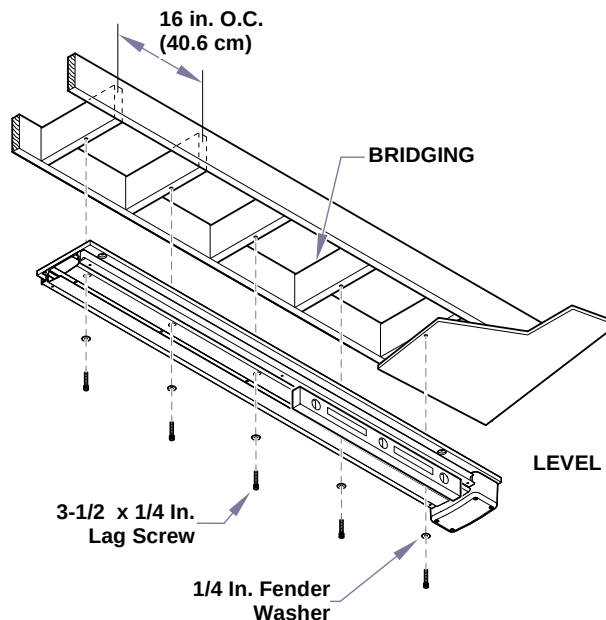
Torque (max.):25 ft-lbs. (33.9 N m)

The ceiling structure must support the light system without deflection. To prevent the suspension arm from drifting, the ceiling plate must deflect no more than **1/16 in. (1.6 mm) over a 12 in. (30.5 cm) distance**.

**FOR INSTALLATIONS
PERPENDICULAR TO JOISTS
(NEW OR EXISTING CONSTRUCTION)**



**FOR INSTALLATIONS
PARALLEL TO JOISTS
(NEW CONSTRUCTION)**



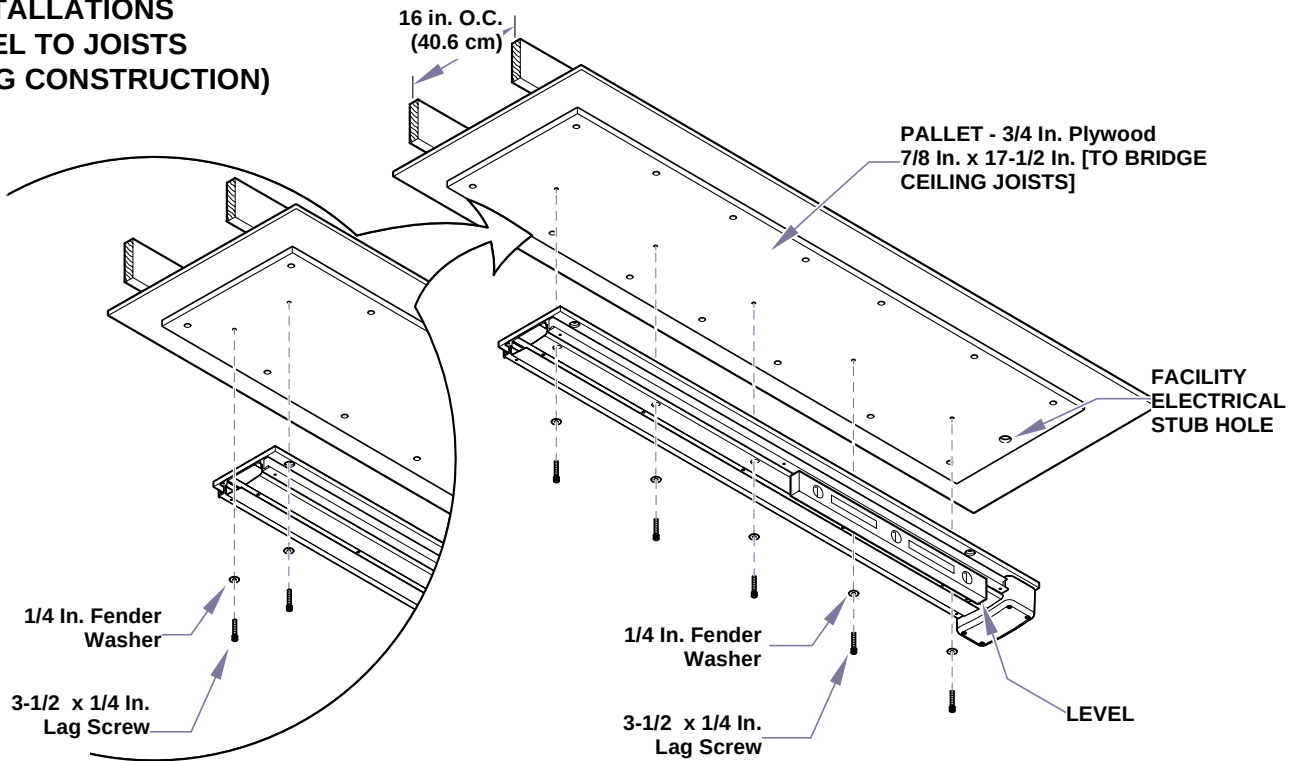
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Figure 5. Recommended Ceiling Support Structures (Track Light)

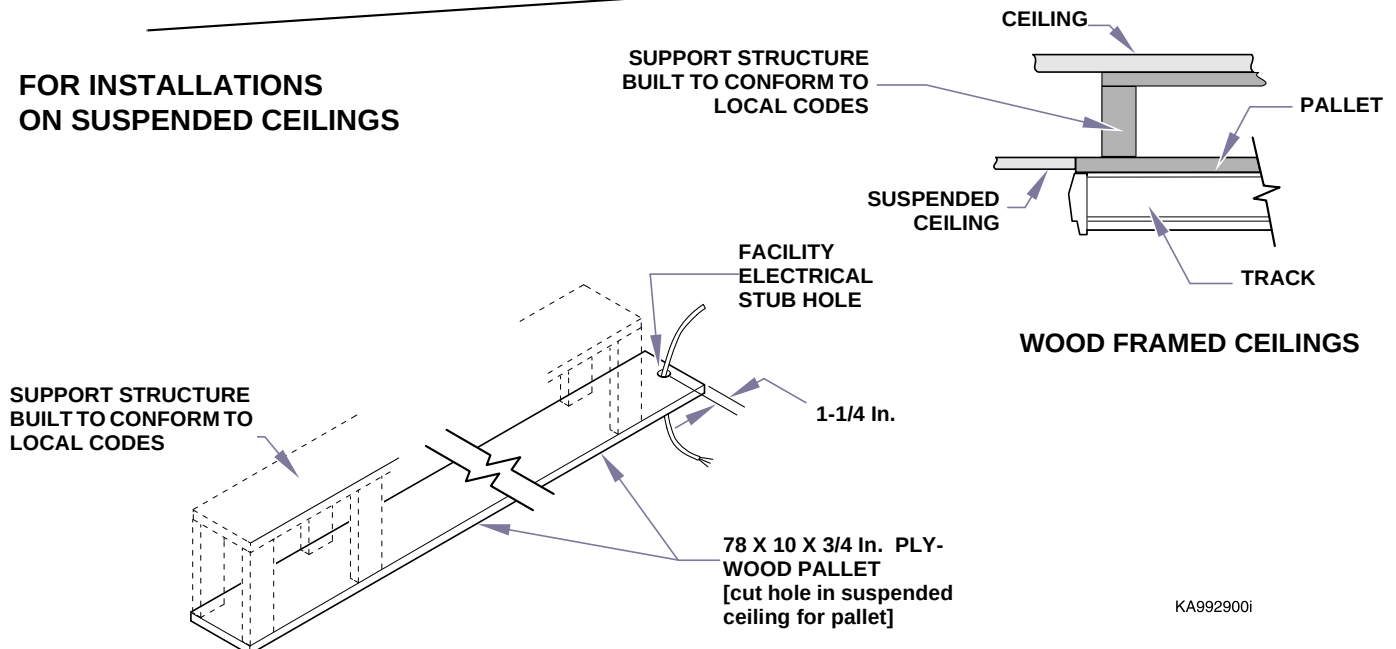
LIGHT PRE-INSTALL

CEILING SUPPORT STRUCTURES - *continued*

**FOR INSTALLATIONS
PARALLEL TO JOISTS
(EXISTING CONSTRUCTION)**



**FOR INSTALLATIONS
ON SUSPENDED CEILINGS**



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Figure 6. Recommended Ceiling Support Structures (*Track Light*)

RECOMMENDED MOUNTING LOCATIONS*[Figure 7]***EQUIPMENT ALERT**

The orientation and position of the track mounted light in relation to the chair is critical. Refer to Figure for proper location / orientation.

Figure 7 shows the recommended mounting location for the track light. Follow these recommendations to ensure optimal use and positioning of lighthouse.

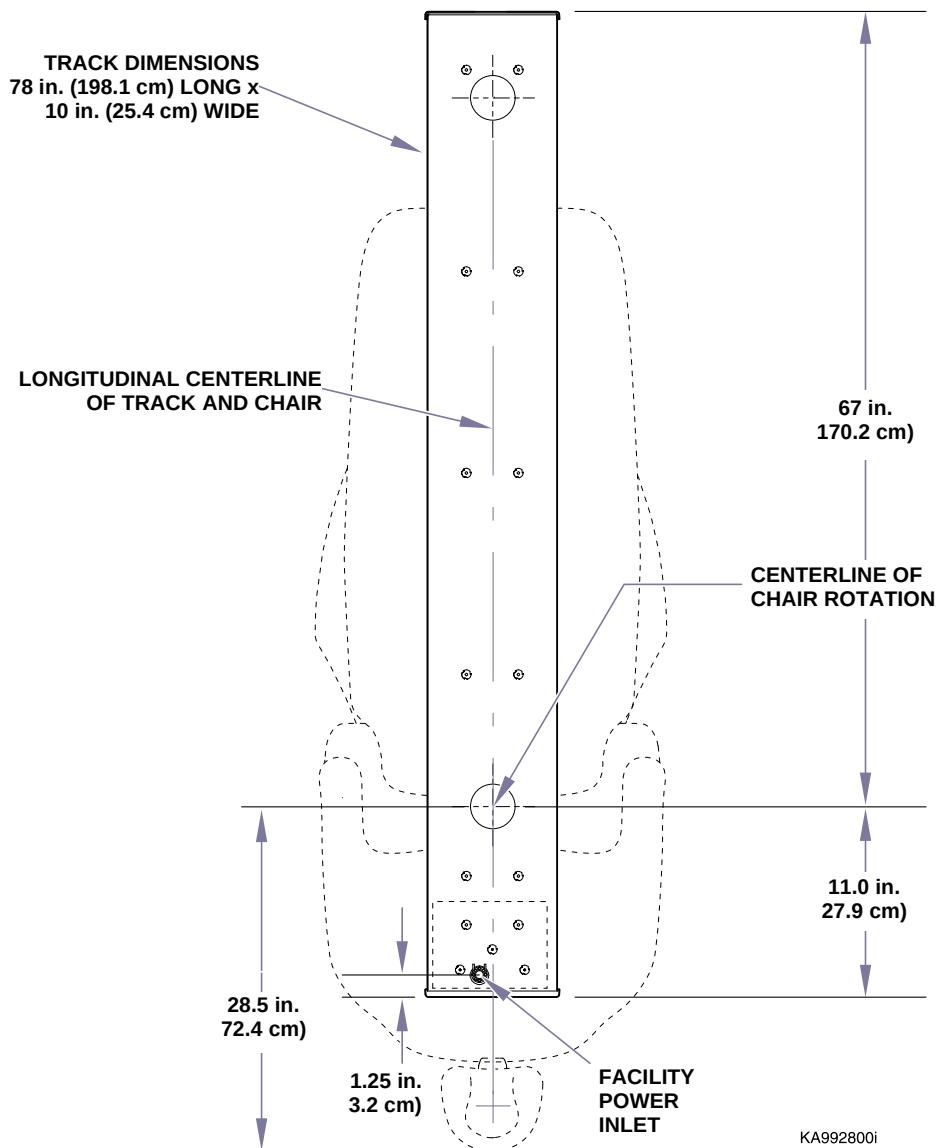


Figure 7. Recommended Mounting Locations (Track Light)

LIGHT PRE-INSTALL***Wall / Cabinet Mount. Light*****DIMENSIONS [Figure 8]****SUPPORT STRUCTURE**

The support structure must be capable of supporting:

Lighting System Only

Weight (Max.).....66 lbs (29.9 kgs)

Torque (Max.).....170 ft-lbs (230.5 N•M)

In addition to supporting the above listed weights, the support structure must also be able to support the light without deflection. To prevent the suspension arm from drifting, the assembly must deflect no more than 1/16" (1.6 mm) over a 12" (30.5 cm) distance.

