



Style M452
70W ceramic
metal halide
uplights
with integral
ballasts

Roundhouse Clerestory

Plan: 22 sided icosikaidigon, 240'
across at lower exterior walls,
100' across columns at perimeter
of clerestory, 26' diameter lantern

Heights: 62' to base of clerestory, approx.
95' to compression ring below
lantern, 122' to top of lantern
dome

Lighting: (22) M452-070G-S-07-B-V00
70W ceramic metal halide
integral ballast uplights with
cutoff visor

Est. Illuminance on pine roof deck:
9 fc average initial

Est. power density: 0.26 W/sf uplights
only under clerestory

Architect: E. F. Baldwin circa 1884

Restoration Architect: SMG Architects

Restoration Engineer: Century
Engineering, Inc.

Architectural Lighting Design:

Crampton/Dunlop Architectural Lighting
Services, LLC

Museum Lighting Design: Cliff Dossel

Photography: Cliff Dossel

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The roundhouse that is central to the B&O Railroad Museum was built in 1884 on the site of America's first railroad depot. In 2003, under Baltimore's heaviest recorded snowfall, the roof over 11 of the 22 bays collapsed. During repair and restoration, the museum's designers decided to modernize the lighting to enhance the structure and the exhibits.

Using only twenty-two 70W lamps, the near uniform wash of light results in a warm glow that emanates from the clerestory windows, beckoning visitors from nearby major highways.



The ceiling of the 100' diameter clerestory is uplit using **elliptipar's** compact yet powerful asymmetric reflectors with ceramic arc metal halide lamps. From relatively inconspicuous positions 62' above the turntable, these warm, high color rendering point sources highlight the color and texture of the southern yellow pine decking.



Outdoor **Style M452** uplights were chosen because of the occasional high humidity and heavy condensation at the windows. Mounted along a catwalk for servicing, captive door screws prevent hardware from dropping to the floor below. (Actual luminaire installation not shown.)