Fixture Schedule Museum Building Scope Progress - Not For Construction

Туре	Manufacturer	Description	Lamp/Details	Scope/Notes/Location
CA	ETC #S4WRDFB-C-Black #426LT (Lens Tube) Provide the following accessories for each fixture: ETC 25%:#ED419LT (19° Lens) 25%:#400PH-A (Pattern Hold) 25%:#400PH-A (Pattern Hold) 25%:#400DN (Donut) 100%:#400TH (TopHat) Production Advantage 100%:#INAC-0249 (Black safety Cable) 100%: 5' DMX cable 100%: 5' DMX cable 100%: 5' 12/3 Jumper cable	C-clamp mounted LED ellipsoidal framing spotlight with 26° beamspread lens . Mount to pipe positions.	155 W per foot Volts: 120V Color Temp: 3000K CRI: 80 Lumens: 7597 per fixture Dim: DMX Mount: C-Clamp Finish: Black	Scope: Museum Building
DPB	Fixture provided by owner and installed by contractor	Decorative Fresnel Lens Pendant for Stairwell Lobby	Allow 150 W per fixture	Scope: Museum Building
			Volts: 120V Dim: Yes	Location: Elevator
TBD			Mount: Pendant	
			Finish: TBD	
DPE	Prudential Lighting	3' Diameter x 5" High	83 W per fixture	Scope: Museum Building
	P4020-LED3-HO-FWA-TBD-D9-DC- UNV-CAxx-TBD-DM01	pendant mounted indirect and direct disc fixture with	Volts: Per EE	Location: Lounge
	Or equal per performance	white acrylic lens.	Color Temp: 3000K CRI: 80	
· 160	specifications. Exact alternate manufactures to be specified in CDs.		Lumens: 5750 per fixture	
	······································		Dim: 0-10V to 1%	
			Mount: Pendant Finish: Per Architect	

Fixture Schedule Museum Building Scope Progress - Not For Construction

Туре	Manufacturer	Description	Lamp/Details	Scope/Notes/Location
DWA	Rich Brilliant Willing CR-TBD-30-XXX-IP65	5.25" diameter x 3.2" deep surface-mounted decorative downlight rated for use in wet locations	8.5 W per fixture Volts: 120V Color Temp: 3000K CRI: 80 Lumens: 215 per fixture Dim: Yes Mount: Wall Mount Finish: Per Architect	Scope: Museum Building
DWB	Artemide Pantarei 300 T287828 Or equal per performance specifications. Exact alternate manufactures to be specified in CDs.	12" Diam x 3" Deep Wall- mount fixture with honyecomb frosted glass diffuser	13.5 W per fixture Volts: Per EE Color Temp: 3000K CRI: 80 Lumens: 500 per fixture Mount: Wall Mount Finish: Per Architect	Scope: Museum Building Location: Stairwell
GC	Erco 32808.023	4-11/16" W x 17-1/2" Coast Guard red wall uplight	31 W per fixtureVolts: 120VColor Temp: 3000KCRI: 80Lumens: 1068 per fixtureDim: ELV (Reverse Phase)Mount: Recessed in Floor	Scope: Museum Building, Bridge Location: Bridge Wall

Fixture Schedule Museum Building Scope Progress - Not For Construction

Туре	Manufacturer	Description	Lamp/Details	Scope/Notes/Location
LPA	lumenwerx #SQUPD1-BFO-NA-WIO-LED-80-500 -500-30-UNV-D1-1-S3WAC36 Or equal per performance specifications. Exact alternate manufactures to be specified in CDs.	2" Wide pendant mounted linear with indirect/direct lighting with a louver.	9.5 W per foot Volts: Per EE Color Temp: 3000K CRI: 80 Lumens: 1000 per foot Dim: 0-10V Mount: Pendant Finish: Per Architect	Scope: Museum Building Location: Open Office, Docent Breakroom
LPB	Lumenwerx VIA2PD-ARO2-LED-80-500-30-Varies- UNV-D1 Series Or equal per performance specifications. Exact alternate manufactures to be specified in CDs.	2" Wide pendant mounted linear wallwash fixture	5 W per foot Volts: Per EE Color Temp: 3000K CRI: 80 Lumens: 500 per foot Dim: 0-10V to 1% Mount: Pendant Finish: Per Architect	Scope: Museum Building Location: Conference Room
LPC	#SQUPD-MRO18-B-LED-80-750-30- Varies-UNV-D1-1-S3WAC36-B Or equal per performance specifications. Exact alternate manufactures to be specified in CDs.	2" Wide pendant mounted linear with grazing optics	8 W per foot Volts: Per EE Color Temp: 3000K CRI: 80 Beam Spread: 18° Lumens: 750 per foot Dim: 0-10V to 1% Mount: Pendant Finish: Black	Scope: Museum Building Location: Theater

Fixture Schedule Museum Building Scope Progress - Not For Construction

Туре	Manufacturer	Description	Lamp/Details	Scope/Notes/Location
LSA	Bartco Lighting BLT215-4-35-D-H-A-EK-S1-SM-AW Or equal by: HE Williams LLMS Series Prudential Lighting Snap Series	4' long x 4" Deep x3.25" surface-mount fixture with frosted white acrylic lens. Steel fixture body ADA Compatible Integral occupancy sensor for high-low operation in stairwell	45 W per fixture Volts: Per EE Color Temp: 3500K CRI: 80 Lumens: 4189 per fixture Dim: 0-10V Mount: Surface Finish: White	Scope: Museum Building Location: Egress Stairs
LSB dadko o didadad o d	Targetti DL-ES-44-O-30-24 Provide with: - 0-10V Dimming driver - DL-O-2PC-F30 (Channel w/Lens) - Mounting Clips Or equal per performance specifications. Exact alternate manufactures to be specified in CDs.	Linear LED Surface mounted LED tape for the roof deck edge.	4.4 W per foot Volts: Primary per EE, 24V Secondary Color Temp: 3000K CRI: 80 Lumens: 357 per foot Dim: 0-10V to 1% Mount: Surface Location: Exterior	Scope: Museum Building Location: Roof Deck Top of Parapet
LSC	Lumenpulse LOG HO-XXX-Varies-30K-WWxF- -30x60-UMAS-TBD-DMX/RDM-ETE Provide -CBox as needed -Mounting Brackets as needed Or equal per performance specifications. Exact alternate manufactures to be specified in CDs.	2-5/16" W x 3-1/2" H Linear grazer with adjustable mounting brackets	15.25 W per foot Volts: Per EE Color Temp: 3000K CRI: 80 Beam Spread: 30°x60° Lumens: 1815 per foot Dim: DMX Mount: Surface Finish: Per Architect Location: Exterior	Scope: Museum Building Location: Exterior Sails

Fixture Schedule Museum Building Scope Progress - Not For Construction

Туре	Manufacturer	Description	Lamp/Details	Scope/Notes/Location
LSD	Optic Arts FLEX DC 44 Provide with channel extrusion with frosted lens. Or equal per performance specifications. Exact alternate manufactures to be specified in CDs.	LED tape surface mounted in vertical channel extrusion.	4.4 W per foot Volts: Primary per EE, 24V Secondary Color Temp: 3000K Lumens: 371.09 per foot Dim: 0-10V Mount: Surface Finish: Per Architect	Scope: Museum Building Location: Elevator
LSE	Klik Lighting USA LP-40-30-A-1512-DIM Provide with - Dimmable Power supply Or equal per performance specifications. Exact alternate manufactures to be specified in CDs.	1" Diameter x 1.18" H LED pod with radiused asymmetric optic for mounting in 1.5" handrail handrail (by others). Fixtures to be mounted on 2' centers. Remote driver power supply. Field-replaceable	1 W per foot Volts: Primary per EE, 24V Secondary Color Temp: 3000K CRI: 80 Beam Spread: 70° Lumens: 60 per foot Dim: Yes Mount: Surface Finish: Per Architect	Scope: Museum Building, Bridge Location: Handrails
P1	ETC Prodigy FlyPipe Self-climbing Hoist Coloursource Raceway	Theatrical Lighting Pipe position with self-climbing hoist and raceway.	Volts: 208V	Scope: Museum Building Location: Theater
PA	Lumenpulse LBGP-30-SCAN-TBD-XXX-WFL-TBD- BK-DMX/RDM Provide with - SNW Snoot Wide Accessory Or equal per performance specifications. Exact alternate manufactures to be specified in CDs.	14" diameter pendant worklight mounted from ceiling for general work light.	100 W per fixture Volts: Per EE Color Temp: 3000K CRI: 80 Beam Spread: 60° Lumens: 5635 per fixture Dim: DMX Mount: Pendant Finish: Per Architect	Scope: Museum Building Location: All Floors

Fixture Schedule Museum Building Scope Progress - Not For Construction

Туре	Manufacturer	Description	Lamp/Details	Scope/Notes/Location
PB	Spectrum Lighting LBMP-30-TBD-XXX-FL-TBD-BK-DIM Provide with - LBMSNW Snoot Wide Accessory Or equal per performance specifications. Exact alternate manufactures to be specified in CDs.	7" Diameter pendant mounted downlgiht with stem 4" diameter x 8" H surface	28 W per fixture Volts: Per EE Color Temp: 3000K CRI: 80 Beam Spread: 40° Lumens: 1428 per fixture Dim: 0-10V Mount: Pendant Finish: Per Architect	Scope: Museum Building
Ĩ	C2SM-D-V-20-83-30-40 Or equal per performance specifications. Exact alternate manufactures to be specified in CDs.	mounted cylinder downlight	20 W per fixture Volts: Per EE Color Temp: 3000K CRI: 80 Beam Spread: 40° Lumens: 2000 per fixture Dim: 0-10V Mount: Surface Finish: Per Architect	Bridge Location: Bridge
RA	Lucifer Lighting Company F4RMFS-1-WH-WH-80C16A Series Or equal per performance specifications. Exact alternate manufactures to be specified in CDs.	4" Diameter recessed downlight.	14 W per fixture Volts: Per EE Color Temp: 3000K Beam Spread: 40° Lumens: 1191 per fixture Dim: 0-10V Mount: Recessed Finish: Per Architect	Scope: Museum Building

Fixture Schedule Museum Building Scope Progress - Not For Construction

Туре	Manufacturer	Description	Lamp/Details	Scope/Notes/Location
RC	Axis Lighting BMPRLED-TBD-500-80-30-RG3- Varies-W-UNV-D-1-TBD-TS Or equal per performance specifications. Exact alternate manufactures to be specified in CDs.	4" Wide recessed perimeter wall wash with 3" regressed lens	4.6 W per footVolts: Per EEColor Temp: 3000KLumens: 500 per footDim: 0-10VMount: RecessedFinish: Per Architect	Scope: Museum Building Location: Bathrooms
RE	Gotham Lighting EVO-30-15-4AR-MW-LSS- Or equal per performance specifications. Exact alternate manufactures to be specified in CDs.	4" diameter recessed downlight Damp label listed	17.3 W per fixture Volts: Per EE Color Temp: 3000K Lumens: 1500 per fixture Dim: 0-10V Mount: Recessed Finish: Per Architect Location: Exterior	Scope: Museum Building Location: Exterior awning
SB	BEGA 99570 Or equal per performance specifications. Exact alternate manufactures to be specified in CDs.	6.5" diameter x 39.5" Tall lighting bollard.	18.4 W per fixture Volts: Per EE Color Temp: 3000K Lumens: 881 per fixture Finish: Per Architect	Scope: Museum Building Location: Site Lighting
SD	Selux Exelia R5R-5G350 Series Or equal per performance specifications. Exact alternate manufactures to be specified in CDs.	16' Tall light Pole with full cutoff type 4 optic	33 W per fixtureVolts: Per EEColor Temp: 3000KLumens: 3251 per fixtureMount: PoleFinish: Per Architect	Scope: Museum Building Location: Site

Fixture Schedule Museum Building Scope Progress - Not For Construction

Туре	Manufacturer	Description	Lamp/Details	Scope/Notes/Location
SE	bega 77025 Or equal per performance specifications. Exact alternate manufactures to be specified in CDs.	Pole top luminaire with asymmetrical wide beam optics. Mounts to 3" OD Slip Fitter Tenon	15.8 W per fixture Volts: Per EE Color Temp: 3000K CRI: 80 Lumens: 2090 per fixture Dim: 0-10V Mount: Pole Finish: Per Architect	Scope: Museum Building Location: Site Loading Dock Area
SLA	Optic Arts FLEX DC 22 Outdoor Provide with channel extrusion with frosted lens. Or equal per performance specifications. Exact alternate manufactures to be specified in CDs.	Surface mounted Linear tape mounted in channel extrusion.	2.2 W per foot Color Temp: 3000K Lumens: 176 per foot Dim: Local 0-10V Mount: Surface Finish: Per Architect Location: Exterior	Scope: Museum Building Location: Site Lighting
T1	Lighting Services Inc. TRK-SC-XX1-120-B CONTROLTrack Series	Single-circuit + DMX control surface-mount track	Volts: 120V Mount: Surface Finish: Per Architect	Scope: Museum Building Contractor to provide all necessary parts and pieces to ensure a complete and working system. Location: Galleries
T3	Lighting Services Inc. TRK-SC-XX1-120-B CONTROLTrack Series	Single-circuit + DMX control surface-mount track	Volts: 120V Mount: Surface Finish: Per Architect	Scope: Museum Building Contractor to provide all necessary parts and pieces to ensure a complete and working system. Location: Galleries

Fixture Schedule Museum Building Scope Progress - Not For Construction

Туре	Manufacturer	Description	Lamp/Details	Scope/Notes/Location
TA	Lighting Services Inc. LX2044-TS9-13-83-30-N1-00-DMX Series Provide with - 50% 20° Optic - 25% 40° Optic -100% Hood LP4 -100% Gel Holder LP4	Track mounted accent fixture.	22 W per fixture Volts: 120V Color Temp: 3000K Beam Spread: 20° Lumens: 1300 per fixture Dim: DMX Mount: Track Finish: Per Architect	Scope: Museum Building
ТВ	Lighting Services Inc. LINLED-C3 Light-Modified to have 3 sided lens	3' Long track mounted linear light with 3 sided lens.	37.5 W per fixture Volts: 120V Color Temp: 3000K CRI: 90 Lumens: 3750 per fixture Dim: DMX Mount: Track Finish: Per Architect	Scope: Museum Building Location: Event Center
TC	Vibia Algorithm Pendant Fixture Provide with LSI track fitting	Track mounted decorative pendant fixture.	15 W per fixture Volts: 120V Color Temp: 2700K Mount: Track Finish: Per Architect	Scope: Museum Building Location: Event Center

Fixture Schedule Museum Building Scope Progress - Not For Construction

Туре	Manufacturer	Description	Lamp/Details	Scope/Notes/Location
TD	Lighting Services Inc. LP4-C19-75-80-30-10-00-DMX Series Provide with - 50% 25° Optic - 50% 40° Optic -100% Hood LP4 -100% Gel Holder LP4	10" Diameter Track mounted LED wash fixture.	80 W per fixture Volts: 120V Color Temp: 3000K CRI: 80 Beam Spread: 10° Lumens: 7500 per fixture Dim: DMX Mount: Track Finish: Per Architect	Scope: Museum Building Location: Stairwell Atrium
TE	Lighting Services Inc. BPL-C09-25-8030-N-00-DMX Series Provide with - 50% BPLWL Lens Assembly - 50% 40° Optic	Track mounted framing projector.	33 W per fixture Volts: 120V Color Temp: 3000K CRI: 80 Lumens: 2500 per fixture Dim: DMX Mount: Track Finish: Per Architect	Scope: Museum Building Location: Stairwell Atrium
Control 1	ETC P-ACP Series	Architectural DMX Controller		Scope: Museum Building Location: Control Room
Control 2	Pathway Connectivity 6742 series	12-Port Gigbit Ethernet Switch	Volts: 120V	Scope: Museum Building Location: Control Room
Control 3	Pathway Connectivity 640x Series	8 Way Ethernet-to-DMX node Rack or wall mountable	Volts: 120V	Scope: Museum Building

National Coast Guard	d Museum	Fixture Schedule Museum Building Scope Progress - Not For Construction	on	100% Design Development
Туре	Manufacturer	Description	Lamp/Details	Scope/Notes/Location
Control 4	dell TL-SG1008PE Series	8-PORT POE Ethernet Gigabit Switch	Volts: 120V	Scope: Museum Building
	TE-SGTOOOFE Selles	Gigabit Switch		Location: Control Rooms

Fixture Schedule Museum Building Scope Progress - Not For Construction

Genera	I Notes
Α	Contractor shall supply and install a complete, fully functioning lighting system, including but not limited to: mounting hardware and accessories; appropriately sized transformers; power supplies; drivers; lamps; optical accessories; and electrical appurtenances.
В	Contractor shall be responsible for final fixture counts of all lighting fixtures and accessories, as well as linear fixture run lengths, as shown on Architect's / Exhibit Designer's drawings.
С	Contractor shall be responsible for verifying mounting conditions with mounting locations to ensure compatibility. Contractor shall notify Owner and Architect / Exhibit Designer of any conflicts with all trades prior to the ordering of the equipment. For fixtures where more than one manufacturer is specified, mounting requirements may vary.
D	Contractor shall verify compliance of all lighting equipment specified in its intended application on this project with all applicable national and local codes, ordinances, regulations and jurisdictions prior to ordering any equipment.
Е	Contractor shall supply "contractor net" unit pricing for each lighting product specified. Unit price shall be for equipment only and shall not include installation or other costs. The unit price supplied shall be guaranteed for the project and valid for additions and deletions of product throughout the duration of the project.
F	All drawings represent visual concepts and suggestions only. Available Light is not qualified to determine structural or electrical suitability and will not assume liability for improper engineering, construction or handling of design concepts.
G	The accompanying drawings and all the ideas, arrangements, designs, and plans indicated thereon or represented thereby are owned by and remain the property of Available Light and have been created and developed for use on and in connection with the specified project. Neither this drawing, nor any such ideas, arrangements, designs, or plans shall be appropriated by or disclosed to any person, firm, or corporation for any use or purpose whatsoever, except by the specific and written permission of Available Light.
Н	Written dimensions on drawings shall have authority over scaled measurements. Contractor shall field verify all dimensions on the job and inform the Architect/Exhibit Designer of any proposed variations from drawings prior to performing the work.
I	Do not scale electrical drawings for exact location of the lighting fixtures. Refer to architectural / exhibit design reflected ceiling plans and other lighting layouts for proper locations of lighting fixtures.
J	Contractor shall not substitute products unless approved in writing by Available Light and/or Architect / Exhibit Designer. Lighting fixture, ballast, driver, power supply, lamp, and/or accessory substitutions shall be formally presented to Available Light no later than fourteen (14) working days prior to bid due date.
	All proposed substitute fixtures must:
	 Be proven to meet or exceed the standards of quality, design, appearance, and performance as established by the lighting fixture specified by Available Light. See next note for list of items to be submitted for all substitutions.
	2) Afford to the owner a significant economic benefit.
	Contractor shall coordinate changes due to use of approved substitutes with all trades.

Fixture Schedule Museum Building Scope Progress - Not For Construction

100% Design Development

K For a fixture type where a manufacturer is named as equal, the equal shall meet aesthetic criteria of the specified fixture, including but not limited to: dimensional criteria, finishes, including custom finishes; mounting details; and specified modifications.

Additionally, for a fixture type where a manufacturer is named as equal, the equal shall meet the minimum performance requirements as defined by specified product, including but not limited to: regulatory listings; output as measured in delivered lumens; center beam candle power (CBCP); baseline efficacies as measured in lumens delivered per watt; cut-off angle as measured from nadir; LED binning; color rendering (CRI); color temperature (CCT); Duv per Manufacturers supporting documentation; dimming and method; five (5) year minimum warranty including LED engine and driver; L70 lumen maintenance tested according to IES LM79; and specified modifications.

L Contractor shall provide the following items to the Architect / Exhibit Designer and Available Light for evaluation of proposed substitutions:

1) A current manufacturer's data sheet with luminaire catalog numbers.

2) A complete and working sample wired with cord and plug for 120V operation furnished upon request.

3) A complete photometric report for the proposed substitute fixture using the same lamp type, wattage, and distribution as per the specification. The photometric report should include TM-30 or CRI documentation with R 1-14 values, tabulated candlepower values, a coefficient of utilization table, and an ISO foot-candle diagram from an independent testing laboratory. The photometric report must reflect the fixture specified without modification to the file.

4) The specified product defines minimum performance requirements as defined by specified product including but not limited to: regulatory listings; output as measured in delivered lumens; center beam candle power (CBCP); baseline efficacies as measured in lumens delivered per watt; cut-off angle as measured from nadir; LED binning; color rendering (CRI); color temperature (CCT); Duv per Manufacturers supporting documentation; dimming and method; five (5) year minimum warranty including LED engine and driver; and L70 lumen maintenance tested according to IES LM79.

5) The Contractor shall submit a signed document stating that if the proposed substitution is accepted the project schedule will not be negatively affected.

- M All fluorescent fixtures shall use electronic high-frequency ballasts.
- N Electronic devices that generate radio frequency energy must not interfere with other electronic devices and must not be susceptible to interference from other devices. Equipment shall not be an Electromagnetic (EM) polluter or be effected by EM pollution. All relevant equipment shall comply with current EMC standards.
- Unless otherwise specified all downlights (recessed, wallwasher, and adjustable) shall be supplied by the same manufacturer, and all linear fixtures (recessed, pendant, and surface mounted) shall be supplied by the same manufacturer.
- P Unless otherwise specified, all retrofit LED lamps shall be manufactured by LEDvance (Osram-Sylvania), Philips, GE, Soraa, or Green Creative. All lamps of a given type shall be supplied by the same manufacturer.
- Q Unless otherwise specified, all LED drivers shall be manufactured by one of the following: Advance (Philips), LEDvance (Osram Sylavnia), Hatch, EldoLED, or Lutron.
- **R** All fixtures shall be supplied with specified lamp(s). Contractor shall provide an additional 10% replacement lamps (minimum two of each lamp type specified). For fixtures that use replaceable LED modules and drivers rather than lamps, contractor shall provide an additional 5% (minimum one) of each driver and module type.

Nationa	I Coast Guard Museum	Fixture Schedule Museum Building Scope Progress - Not For Construction	100% Design Developmen	
S	Fixture construction and installation shall ensure no light leaks between ceiling trims of recessed lighting equipment and the ceiling plane. For applications in perforated or partially transparent ceilings, fixture construction shall also ensure no light leaks above the ceiling line.			
Т	Reflectors, reflector cones, and visible general cleanup. Reflectors, reflector c	Reflectors, reflector cones, and visible trim of all lighting fixtures shall not be installed until completion of plastering, ceiling tile work, painting, and general cleanup. Reflectors, reflector cones, and visible trim shall be carefully handled to avoid scratching or fingerprinting.		
U	At the time of acceptance by the Owne manufacturers, all broken parts shall ha	e of acceptance by the Owner, all lighting fixtures shall have been thoroughly cleaned with materials and methods recommended by the surers, all broken parts shall have been replaced, and all lamps and/or LED modules shall be operative.		
V	life, however, lamps/ballasts/drivers/con	all perform regular maintenance on all luminaires in order to ensure expected performance. Fixtures may produce light past their rated lamps/ballasts/drivers/components must be replaced at or before rated end-of-life for the luminaire to meet minimum photometric standards. Neither the Architect/Exhibit Designer nor Available Light shall be held responsible or liable for improper service and of lighting systems.		
W	Budget pricing is the cost the Owner should be prepared to pay for a specific luminaire or system. Price includes lamp(s) but does not include freight, tax, or installation costs. Owner level fixture prices were received directly from the manufacturer's agent, or derived by adding a 15% distributor markup and a 15% contractor markup to a Distributor Net price received from the manufacturer's agent, unless otherwise noted. Details regarding the source of individual fixture budget prices are available upon request.			
X	Contractor shall supply all low-voltage documentation and manufacturer's doc	control data lines and wiring in order to properly network and dim fix sumentation. Data runs must be properly terminated.	xtures together per control intent	
Projec	t Specific Notes			
1	Fixture shall be furnished and installed	by Exhibit Fabricator. Exhibit Fabricator shall be responsible for fin	nal electrical termination.	
2	Fixture shall be furnished and installed by Base Building Contractor. Base Building Contractor shall be responsible for final electrical termination.		sponsible for final electrical termination.	
3	Fixture shall be furnished by Exhibit Fabricator and installed by Base Building Contractor. Base Building Contractor shall be responsible for final electrical termination.		Contractor shall be responsible for final	
4	Fixture shall be aimed and focused by Contractor/Exhibit Fabricator under the direction of Available Light.			
5	The Contractor / Exhibit Fabricator shall provide all ladders and mechanical lifts (i.e scissors lifts, articulating boom arm lifts, etc.) for the exclusive use of the aim and focus effort. The number and type of lifts and/or ladders to be pre-approved by Available Light. Crew shall arrive at aim and focu equipped with appropriate aim and focus tools including wrenches, gloves, electrical testers, etc., as per industry standards for a theatrical lighting technician. All costs associated with aiming and focusing shall be included in the bid, including but not limited to travel expenses, parking, storage, etc.			
6	The Base Building Contractor shall inst operational.	e Base Building Contractor shall install one track fixture per track run per circuit, for the purpose of confirming that all tracks are energized and erational.		
7	Fixture or track shall be mounted to structure in a manner recommended by the manufacturer without compromising the integrity of the structure. Contractor shall be responsible for all materials required to insure a safe and proper pendant installation. Contractor to coordinate changes in size of fixtures or track due to use of approved substitutes with all trades. Tracks shall be mounted to prevent twisting when fixtures are aimed and focused causing an asymmetrical load.			
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Nationa	I Coast Guard Museum	Fixture Schedule Museum Building Scope Progress - Not For Construction	100% Design Development	
8	Prior to the onsite arrival of Available Light, all luminaires shall be installed in the proper positions as indicated in the construction documents with all mechanical shutters pulled and beams of light directed straight down. Accessories (spread lenses, color filters, screens, gobos, top hats, snoots, etc.) shall be installed under the supervision of Available Light during the aim and focus period.			
9	Remote transformers, power supplies, or drivers shall be located in nearby accessible, concealed-from-view location with manufacturer recommended ventilation available. As per manufacturer's recommendations, contractor shall not exceed the maximum allowable distance between any luminaire and its associated remote control devices. Contractor shall supply manufacturer's transformer, power supply or driver of proper capacity.			
10	"Local Control" means the controller or dimmer is mounted within the exhibit, rather than a central lighting controller.			
11	Prior to aim and focus, all DMX fixtures shall be properly addressed per Available Light's specification and tested using the specified control system (i.e. not a local test device).			
12	Final finish of fixture shall be approved in writing by Architect / Exhibit Designer.			
13	Mounting height shall be coordinated with Architect's / Exhibit Designer's elevations.			
14	Junction boxes and/or conduit that is used to wire fixtures and that is open to view shall be painted to match adjacent structure.		atch adjacent structure.	
15	Due to rapid advances in LED technology, Available Light reserves the right to change lamp or LED module specifications at the time of submittal to another lamp or LED module of equal or lesser cost.			