

INNOVATIVE SOLUTIONS TO LIGHTING CHALLENGES

TAOS SR

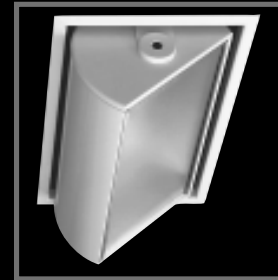
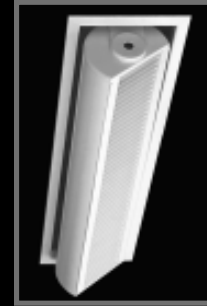
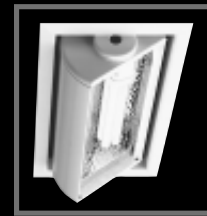
Interior Architectural Luminaires
Ceramic Metal Halide
Compact Fluorescent
Quartz Halogen
Metal Halide



I N S I G H T



TAOS SR Series



The Taos SR family of products incorporates all of the design and performance features and benefits present in the Taos products, including additional labor saving design features. Designed as a semi-recessed product for labor conscience applications, the Taos SR employs an integral wiring compartment that is accessible from within the space and a back box that may be installed separately during the rough-in stage of the project. UL Listed thru-wiring is enhanced by the ability to both rotate and retract these fixtures, allowing for greater field adjustment and versatility. The unique ratchet design and tool-less optical adjustment for T-grid biax products is the retail consultant's answer to fast efficient installation.

Whether wall or ceiling mounted, the Taos SR offers the specifier the most versatile asymmetric and symmetric semi-recessed products for today's demanding environments.

Specifications

Luminaire Housing: Extruded aluminum housing with single piece, welded die cast aluminum end plates. The Taos SR Series offers fully rotatable and adjustable 5", 6-1/2", and 9" diameter housings.

Recessed Box: Constructed of 16 gauge galvanized cold rolled steel, die formed and welded. The flange-less recessed box can be inserted and mounted from either side of the ceiling or wall surface. Four universal mounting brackets are adjustable from either the room or back side of the box, providing the ultimate in installation flexibility and convenience.

Reflector: All reflectors are highly efficient optical systems, constructed of 95% peened specular anodized die-formed aluminum.

Finish: All painted surfaces are pretreated and powder coated to 3 mil thick. Standard painted finishes are available in semi gloss white, black, natural, bronze, satin and graphite. An additional 20 standard

Lens: A micro-prismatic tempered glass lens is provided for all quartz halogen, metal halide, DTT Fluorescent and TT Fluorescent luminaires. LTT Fluorescent luminaires can be provided with an optional tempered glass lens. All lenses are secured into an anodized extruded aluminum doorframe. Die cast doorframe latches hinge in either direction, allowing for tool-less relamping.

Electrical: Quartz halogen is available in 120 volt only. Compact fluorescent ballasts are integral, electronic, high power factor, thermally protected. Power factor is greater than 90% and THD is less than 10%. Optional dimming ballasts are available for fluorescent luminaires. Metal halide fixtures are provided with a remote enclosed and potted, thermally protected B sound rated F-can ballast.

Labels: Fixtures are Underwriters Laboratories and Canadian Standards listed and approved for damp locations.



Ordering Information

SR400, SR500, SR670 & SR900 Series (5", 6-1/2" and 9" Diameter Housings)

Quartz Halogen - 5" Diameter Housing

- SR400 (1)-Q250W Max. (T4, Mini-Can) - 5" X 6"
- SR500 (1)-Q250W Max. (T4, Mini-Can) - 5" X 9"
- SR510 (1)-Q350W Max. (T6, RSC) - 5" X 9"

Ceramic Metal Halide - 5" Diameter Housing

- SR417 (1)-39W CMH (T6, G12 Base) - 5" X 6"
- SR422 (1)-70W CMH (T6, G12 Base) - 5" X 6"
- SR423 (1)-100W CMH (T6, G12, Base) - 5" X 6"
- SR427 (1)-150W CMH (T6, G12 Base) - 5" X 6"
- SR517 (1)-39W CMH (T6, G12 Base) - 5" X 9"
- SR522 (1)-70W CMH (T6, G12 Base) - 5" X 9"
- SR523 (1)-100W CMH (T6, G12 Base) - 5" X 9"
- SR527 (1)-150W CMH (T6, G12 Base) - 5" X 9"


Metal Halide - 9" Diameter Housing

- SR920 (1)-100W MH (E17, Med Base) - 9" X 15"
- SR921 (1)-150/175W MH (E17, Med Base) - 9" X 15"
- SR922 (1)-250W MH (T15, ET18, POMB Base) - 9" X 15"
- SR923 (1)-400W MH (T15, ET18, POMB Base) - 9" X 15"

Quad & Triple Tube Compact Fluorescent - 5" & 6-1/2" Diameter Housings

- SR572 (1)-F26DTT (PL-C, G24q-3) - 5" X 9"
- SR2572 (2)-F26DTT (PL-C, G24q-3) - 5" X 24"
- SR674 (1)-F26DTT, F32TT, F42TT (PL-T, GX24q-4) - 6-1/2"X11"
- SR2674 (2)-F26DTT, F32TT, F42TT (PL-T, GX24q-4) - 6-1/2"X20"

Prefix ①

- SA Single Lamp, Asymmetric Distribution 

Reflector Type ②

- 1 120V (Quartz Halogen Available In 120V Only)
- 2 277V
- 7 347V

Voltage ③

- W Semi-Gloss White
- N Semi-Gloss Natural
- BR Semi-Gloss Bronze
- BL Semi-Gloss Black
- S Semi-Gloss Satin
- G Semi-Gloss Graphite
- SF Specify Finish (See Color Chart)
- CC Custom Color (Contact Factory)

Finish ④

- BD Barn Doors
- VS Solid Cutoff Visor
- VP Perforated Cutoff Visor
- GS External Louvered Visor
- SS Adjustable Sawtooth Shield
- RL-X External Radial Louver (X = Louver finish)
- CF Fade Not Visored Colored Lens **
- CDF Dichroic Visored Colored Lens **
- QL Quartz Restrike (Hot/Cold Start 50W Max for SR920 & 100W Max for SR921-923) *
- QEM Emergency Quartz Lamp Socket (50W Max for SR920 & 100W Max for SR921-923) *
- EB Remote Electronic Ceramic Metal Halide Ballast (Contact factory)
- DM Dimming Ballast (Contact Factory)

* Available With SR920-SR923 Only

** Contact factory for color selection.

Options ⑤

Ordering Example: SR527 / SA / 1 / W / CF
① ② ③ ④ ⑤

LR580, SR580, & SR680 Series (5" and 6-1/2" Diameter Housings)

Long Twin Tube Fluorescent

For use in 'T' Bar Lay-In Ceiling

- LR581 F39 LTT (PL-L, 2G11)-5" X 22"
- LR583 F40 LTT (PL-L, 2G11)-5" X 22"
- LR585 F50 LTT (PL-L, 2G11)-5" X 22"
- LR587 F55 LTT (PL-L, 2G11)-5" X 22"

Lenses Not Available With LR580 Series Twin Lamp TA & TS Reflectors

For Use In Drywall Construction

- SR581 F39 LTT (PL-L, 2G11)-5" X 24"
- SR583 F40 LTT (PL-L, 2G11)-5" X 24"
- SR585 F50 LTT (PL-L, 2G11)-5" X 24"
- SR587 F55 LTT (PL-L, 2G11)-5" X 24"

Lenses Not Available With SR580 Series Twin Lamp TA & TS Reflectors. Specify SR681 or SR683 Twin Lamp TA or TS Reflectors.





For Use In Drywall Construction

- SR681 F39 LTT (PL-L, 2G11)-6.5" X 24"
- SR683 F40 LTT (PL-L, 2G11)-6.5" X 24"
- SR685 F50 LTT (PL-L, 2G11)-6.5" X 24"
- SR687 F55 LTT (PL-L, 2G11)-6.5" X 24"

Lenses Available With SR680 Series Single & Twin Lamp Reflectors Excluding SR 685 & SR 687 Twin Lamp TA & TS Reflectors

For 4' SR, please contact factory.

Prefix ①

- SA Single Lamp, Asymmetric Distribution 
- SS Single Lamp, Symmetric Distribution 
- TA Twin Lamp, Asymmetric Distribution 
- TS Twin Lamp, Symmetric Distribution 

Reflector Type ②

- 1 120V
- 2 277V
- 7 347V (Contact factory for availability)

Voltage ③

- W Semi-Gloss White
- N Semi-Gloss Natural
- BR Semi-Gloss Bronze
- BL Semi-Gloss Black
- S Semi-Gloss Satin
- G Semi-Gloss Graphite
- SF Specify Finish (See Color Chart)
- CC Custom Color (Contact Factory)

Finish ④

- BD Barn Doors
- PL Micro-Prismatic Tempered Glass Lens for LTT Luminaires *
- UV UV Filter *
- CF Fade Not Colored Lens * **
- VS Solid Cutoff Visor
- VP Perforated Cutoff Visor
- SS Adjustable Sawtooth Shield
- LV-X Internal Louver (Not Available With Lenses) *
- RL-X External Radial Louver (X = Louver finish)
- RLP-X External Radial Louver w/ PL Lens (X = Louver finish) *
- RLCF-X External Radial Louver w/ CF Lens (X = Louver finish) *
- DM Dimming Ballast (Contact Factory)
- EM Emergency Circuit (Contact Factory)

X = Louver finish, see above selections

* Not available with SR581-587 in TA or TS reflectors or SR685-687 in TA or TS reflectors. SR681-683 in TA or TS reflectors may be specified with lenses.

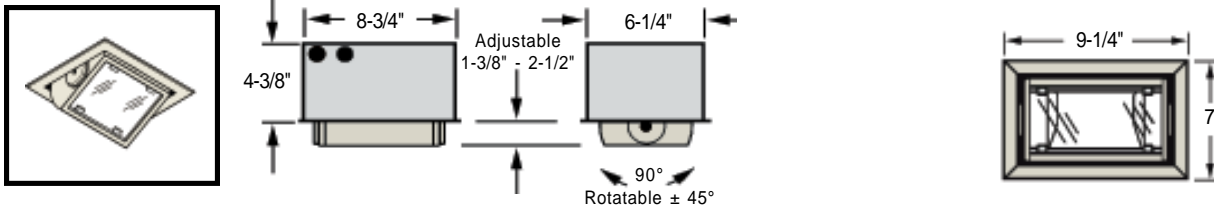
** Contact factory for color selection.

Options ⑤

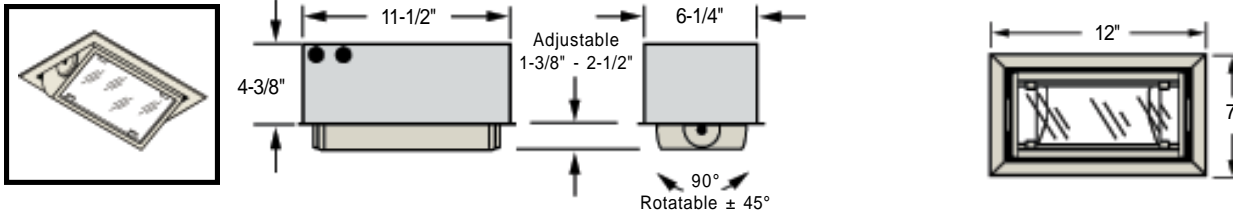
Ordering Example: LR583 / SA / 1 / N / RL-BL
① ② ③ ④ ⑤

Mounting Information

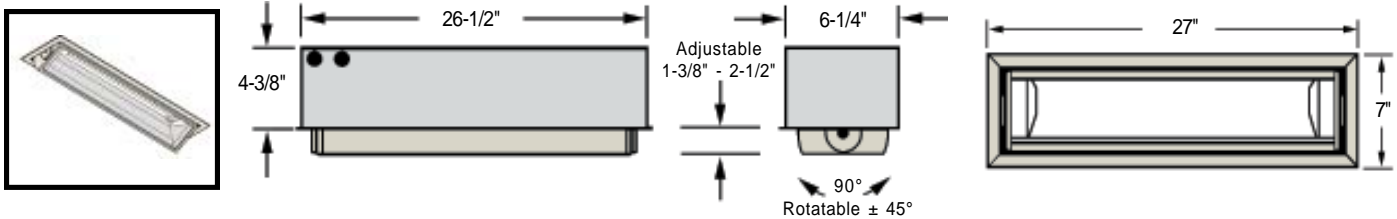
SR 400 Series - 5" X 6"



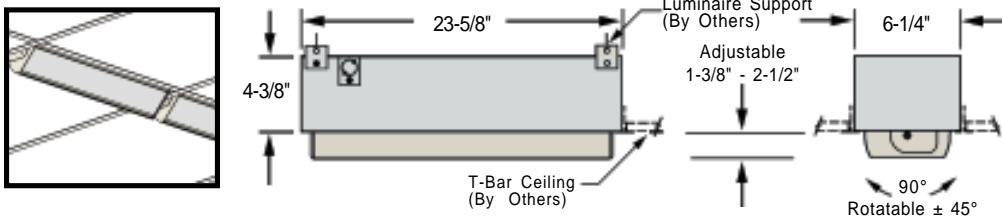
SR 500 Series - 5" X 9"



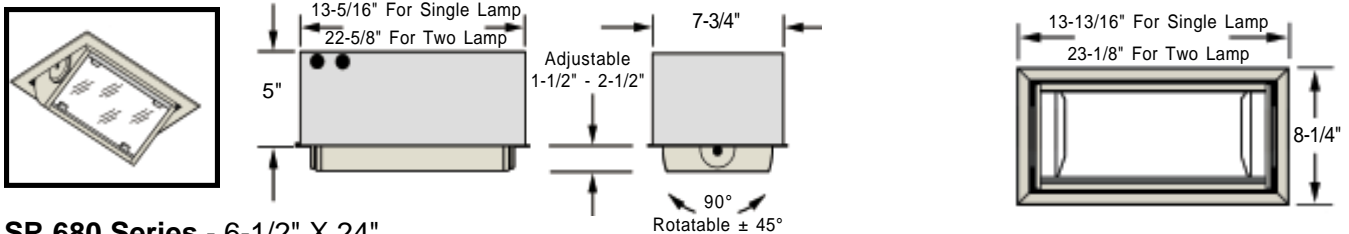
SR 580 / SR 2572 Series - 5" X 24"



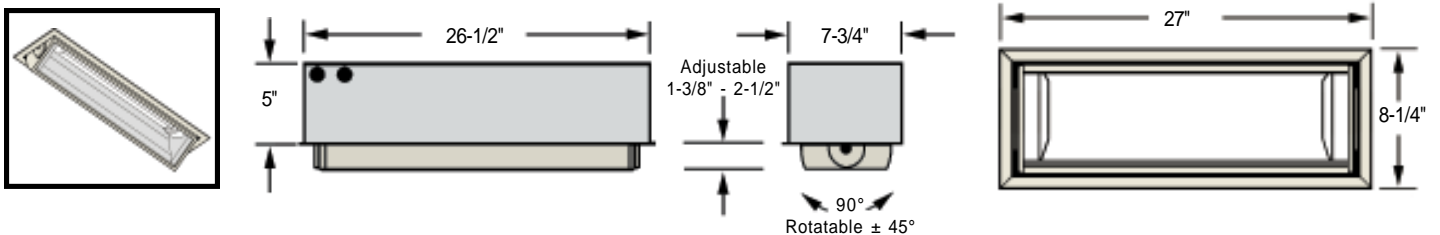
LR 580 Series - For Use In 'T' Bar Lay-in Ceiling



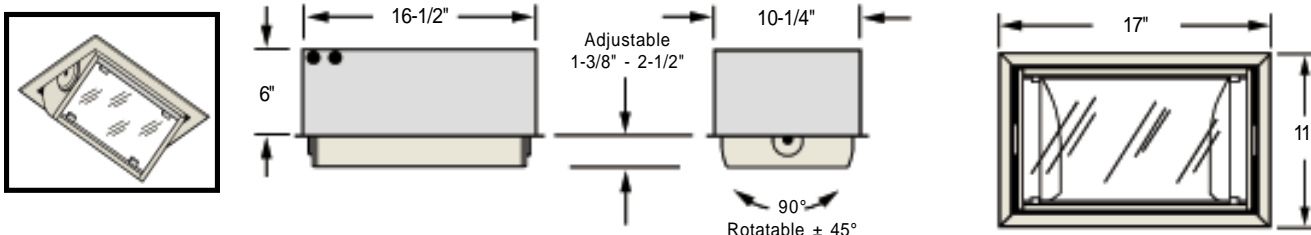
SR 670 - 6-1/2" X 11" & 6-1/2" X 20"



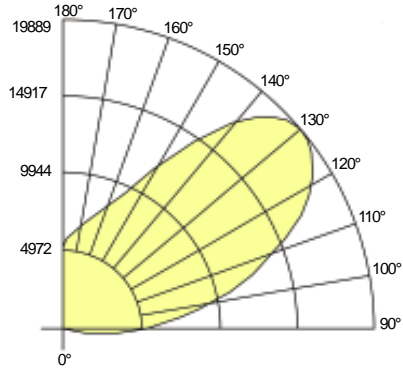
SR 680 Series - 6-1/2" X 24"



SR 900 Series - 9" X 15"



Indirect Polar Curve - 400W MH

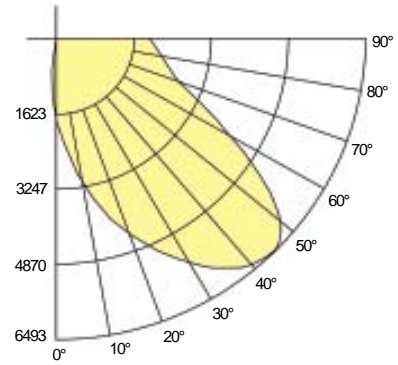


Total Luminaire Efficiency = 84.5%

Multipliers:

100W MH 8,500 Lumens X .24
 175W MH 14,000 Lumens X .39
 250W MH 21,000 Lumens X .58
 400W MH 36,000 Lumens X 1.0
 400W POMB 40,000 Lumens X 1.1

Direct Polar Curve - 150W CMH

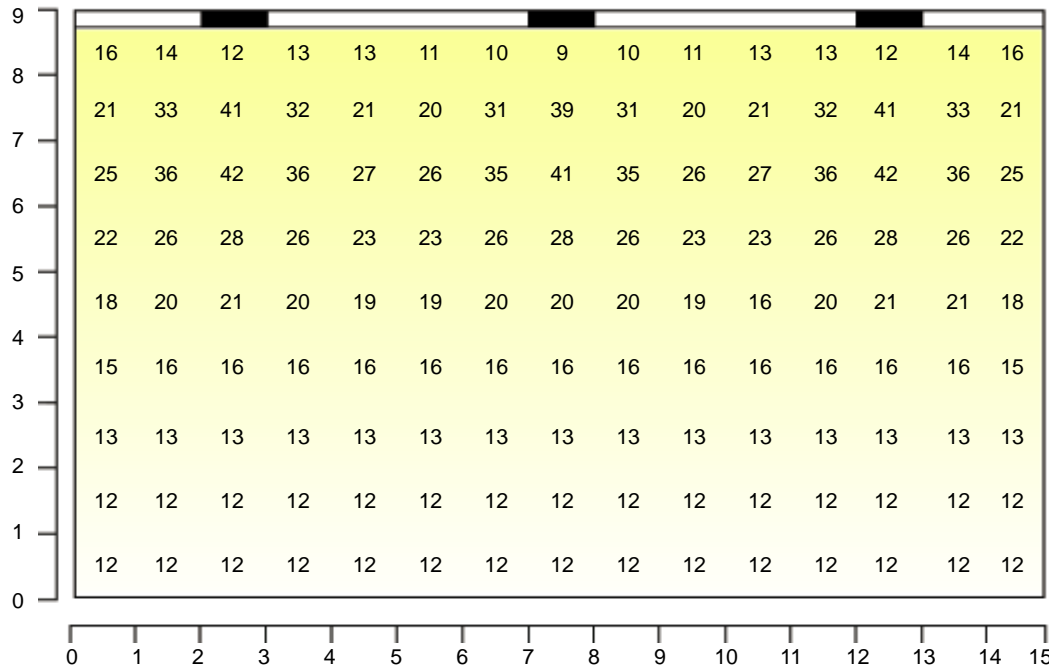


Total Luminaire Efficiency = 76%

Multipliers:

39W CMH 3,400 Lumens X .243
 70W CMH 6,600 Lumens X .471
 100W CMH 9,000 Lumens X .643
 150W CMH 14,000 Lumens X 1.0

Wallwash Application
 15 Feet Wide By 9 Feet Tall
 Catalog Number: LR585/SA/X/SF



Lighting Calculation Results:

Vertical Illuminance = 19.07 Avg. Maintained Fc
 Uniformity Ratio = 4.67 : 1 Max to Min

Lamp Data Per Luminaire:

(1)-50 Watt LTT Fluorescent
 Initial Lamp Lumens = 4,000
 Light Loss Factor = 0.82

Luminaire Mounting Locations:

Ceiling Mounted 9 Feet Above Finished Floor
 Three Luminaires Mounted Along 15' Length of Room
 Offset From Vertical Surface = 24"
 Spacing on Center = 5'

Room Reflectances:

Ceiling = .8, Walls = .5, Floor = .2

Multipliers:

39 Watt LTT Fluorescent 2,850 Lumens X .713
 40 Watt LTT Fluorescent 3,150 Lumens X .788
 50 Watt LTT Fluorescent 4,000 Lumens X 1.0
 55 Watt LTT Fluorescent 4,800 Lumens X 1.2

Photometric Data

High Flat Ceiling Area Application

30 Feet Wide By 30 Feet Long By 30 Feet Ceiling Height
 Catalog Number: SR923/SA/X/SF

Lighting Calculation Results:

Illuminance Along Ceiling = 64.86 Avg. Maintained Fc
 Ceiling Uniformity Ratio = 3.77 : 1 Max to Min
 Illuminance at 2.5 Feet Workplane = 25.86 Avg. Maintained Fc
 2.5 Feet Workplane Uniformity Ratio = 1.43 : 1 Max to Min

Lamp Data Per Luminaire:

(1)-400 Watt T-15 Metal Halide Lamp
 Initial Lamp Lumens = 36,000
 Light Loss Factor = 0.72

Luminaire Mounting Locations:

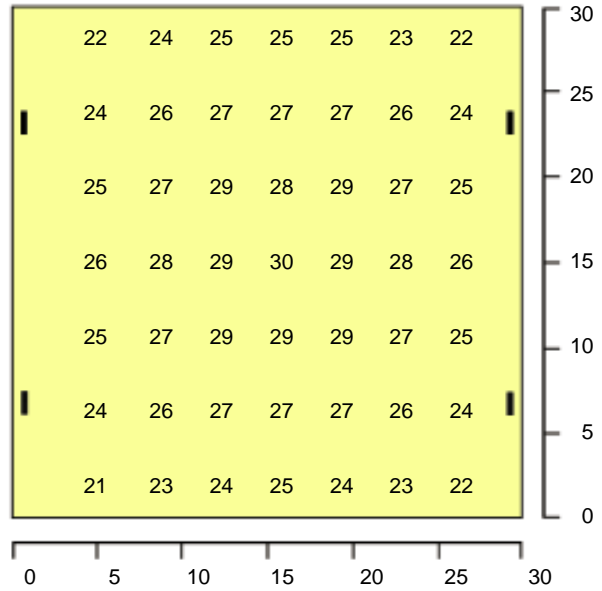
Wall Mounted 26 Feet Above Finished Floor
 Four Luminaires Along Left and Right Lengths of Room
 Spacing on Center = 15 Feet

Room Reflectances:

Ceiling = .8, Walls = .5, Floor = .2

Multipliers:

100 Watt MH 8,500 Lumens X .24
 175 Watt MH 14,000 Lumens X .39
 250 Watt MH 21,000 Lumens X .58
 250 Watt MH POMB 23,000 X .64
 400 Watt MH 36,000 Lumens X 1.00
 400 Watt MH POMB 40,000 Lumens X 1.1



Barrel Vault Ceiling Area Application

30 Feet Wide By 30 Feet Long
 Ceiling = 16 Feet at Wall and 20 Feet at Peak
 Catalog Number: SR922/SA/X/SF/PL

Lighting Calculation Results:

Illuminance Along Ceiling = 54.73 Avg. Maintained Fc
 Ceiling Uniformity Ratio = 4.06 : 1 Max to Min
 Illuminance at 2.5 Feet Workplane = 24.90 Avg. Maintained Fc
 2.5 Feet Workplane Uniformity Ratio = 1.45 : 1 Max to Min

Lamp Data Per Luminaire:

(1)-250 Watt T-15 Metal Halide Lamp
 Initial Lamp Lumens = 21,000
 Light Loss Factor = 0.72

Luminaire Mounting Locations:

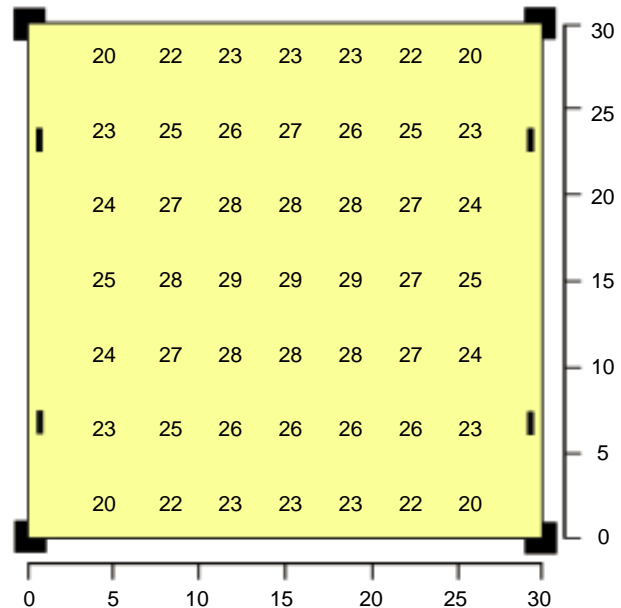
Wall Mounted 14 Feet Above Finished Floor
 Four Along Left and Right Lengths of Barrel Vault
 Spacing on Center = 15 Feet

Room Reflectances:

Ceiling = .8, Walls = .5, Floor = .2

Multipliers:

100 Watt MH 8,500 Lumens X .405
 175 Watt MH 14,000 Lumens X .667
 250 Watt MH 21,000 Lumens X 1.00
 250 Watt MH POMB 23,000 X 1.10
 400 Watt MH 36,000 Lumens X 1.71
 400 Watt MH POMB 40,000 Lumens X 1.90



Wallwash Application

30 Feet Wide By 14 Feet Tall

Catalog Number: SR510/SA/1/SF

Catalog Number: SR522/SA/X/SF

300W Quartz = Black Values, 70W CMH = Red Values

Lighting Calculation Results:

Vertical Illuminance = 11.93 / 10.33 Avg. Maintained Fc
Uniformity Ratio = 4 / 5.6 : 1 Max / Min

Lamp Data Per Luminaire:

(1)-300 Watt Quartz Halogen Lamp
Initial Lamp Lumens = 5,950
Light Loss Factor = 0.9

(1)-70 Watt Ceramic Metal Halide

Initial Lamp Lumens = 6,600

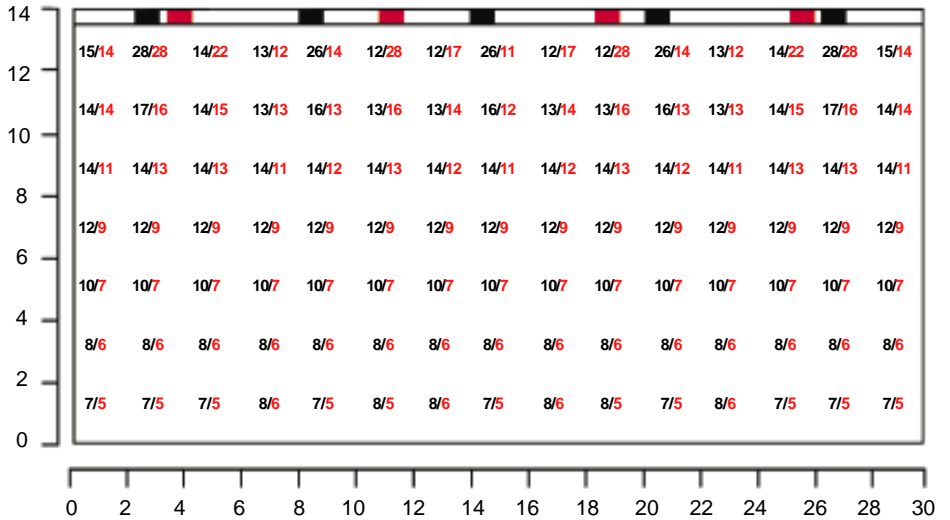
Light Loss Factor = .72

Luminaire Mounting Locations:

Ceiling Mounted 14 Feet Above Finished Floor
Five / Four Luminaires Along 30' Length of Room
Offset From Vertical Surface = 24"
Spacing on Center = 6 Feet / 7.5 Feet

Room Reflectances:

Ceiling = .8, Walls = .5, Floor = .2



Wallwash Application

30 Feet Wide By 14 Feet Tall

Catalog Number: SR510/SA/1/SF

Catalog Number: SR522/SA/X/SF

300W Quartz = Black Values, 70W CMH = Red Values

Lighting Calculation Results:

Vertical Illuminance = 8.26 / 9.03 Avg. Maintained Fc
Uniformity Ratio = 2.5 / 3.6 : 1 Max / Min

Lamp Data Per Luminaire:

(1)-300 Watt Quartz Halogen Lamp
Initial Lamp Lumens = 5,950
Light Loss Factor = 0.9

(1)-70 Watt Ceramic Metal Halide

Initial Lamp Lumens = 6,600

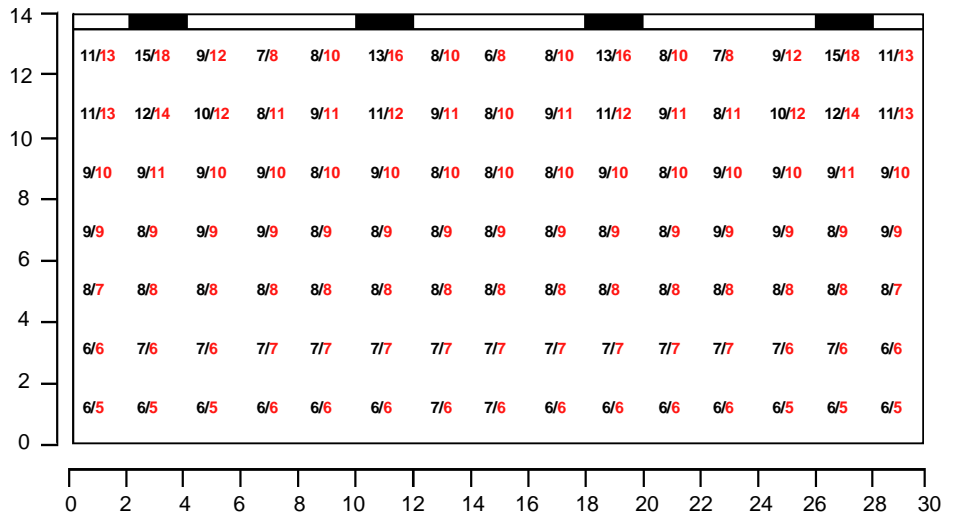
Light Loss Factor = .72

Luminaire Mounting Locations:

14 Feet Above Finished Floor
Four Luminaires Mounted On The Ceiling Along 30' Wall
Spacing on Center = 8 Feet
Offset From Vertical Surface = 36"

Room Reflectances:

Ceiling = .8, Walls = .5, Floor = .2



Multipliers:

200 Watt Quartz Halogen 3,460 Lumens X .582

250 Watt Quartz Halogen 4,000 Lumens X .672

300 Watt Quartz Halogen 5,950 Lumens X 1.0

350 Watt Quartz Halogen 10,000 Lumens X 1.68

39 Wall Ceramic Metal Halide 3,400 Lumens X .515

70 Watt Ceramic Metal Halide 6,600 Lumens X 1.0

150 Watt Ceramic Metal Halide 14,000 Lumens X 2.12

I N S I G H T 

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