DESCRIPTION

The McGraw-Edison Talon is the most versatile, functionally designed, universally adaptable outdoor luminaire available. The Talon brings outstanding performance to walkways, parking lots, roadways, building areas, and any security lighting application. U.L. listed and CSA certified for wet locations. IP66 Rated.

(E) McGRAW-EDISON® energy solutions

SPECIFICATION FEATURES

Construction
One-piece heavy-wall, die-cast aluminum construction with integral reveal channels along top surface of housing. Internal cast-in wall separates optical and electrical chambers allowing components to operate cooler. One-piece die-cast aluminum door frame with integral cast-in gasket channel seals optical chamber to an IP66 rating. Stainless steel latches and hinges allow for toolless opening and removal of door frame.

Reflector
Choice of 14 high efficiency optical systems utilizing horizontal and vertical lamp orientations. Optional high efficiency segmented optical systems constructed of premium 95% reflective anodized aluminum sheet. Optical segments are rigidly mounted inside a thick gauge aluminum housing for superior protection. All segment faces are clean of rivet heads, tabs or other means of attachment which may cause streaking in the light distribution.

Standard with mogul-base socket for HPS, MH and 250-400W MP. Standard with medium-base socket for 200W MP and below. All optical modules feature quick disconnect wiring plugs and are field rotatable in 90° increments.

Electrical
Offered standard with ballast and related electrical componentry hard mounted to die-cast housing details for optimal heat transfer and operating efficiency. Optional galvanized steel swing-down power tray with integral handle. Electrical disconnects allow tray to be completely removed from the housing providing ample hand and tool room for attachment of fixture during installation.

Mounting
Extruded 8" aluminum arm includes internal bolt guides allowing for easy positioning of fixture during installation to pole or wall surface. Standard single carton packaging of housing, square pole arm and round pole adapter for contractor friendly arrival of product on site.

Finish
Housing and arm finished in a 5 stage premium TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard colors include black, bronze, grey, white, dark platinum, and graphite metallic. RAL and custom color matches available. Consult the McGraw-Edison Architectural Colors brochure for the complete selection.

LAMP TYPE	WATTAGE
Pulse Start Metal Halide (MP)	70, 100, 150, 175, 200, 250, 320, 350, 400W
High Pressure Sodium (HPS)	70, 100, 150, 250, 400W
Metal Halide (MH)	175, 250, 400W

TLM
TALON MEDIUM

70 - 400W
Pulse Start Metal Halide
High Pressure Sodium
Metal Halide

ARCHITECTURAL
AREA LUMINAIRE

ENERGY DATA
Hi-Reactance Ballast Input Watts
70W HPS HPF (86 Watts)
70W MP HPF (94 Watts)
100W HPS HPF (115 Watts)
100W MP HPF (129 Watts)
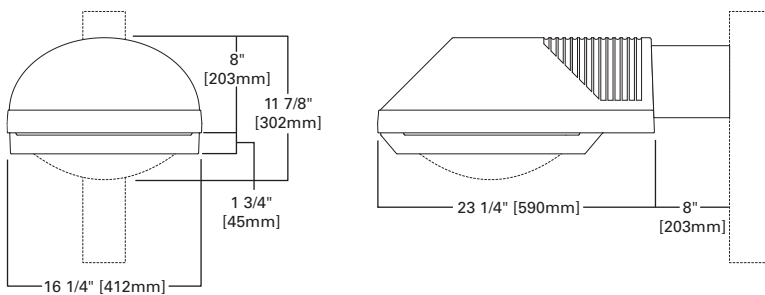150W HPS HPF (170 Watts)
150W MP HPF (185 Watts)

CWA Ballast Input Watts
175W MP HPF (198 Watts)   (E)
200W HPS HPF (240 Watts)
200W MP HPF (227 Watts)   (E)
250W HPS HPF (295 Watts)
250W MP HPF (283 Watts)   (E)
320W MP HPF (361 Watts)   (E)
350W MP HPF (397 Watts)   (E)
400W HPS HPF (457 Watts)
400W MP HPF (452 Watts)   (E)

EPA
Effective Projected Area: (Sq. Ft.)
Recessed Door w/o Arm: 0.79
Deep Door w/o Arm: 1.02
8" Arm: 0.43

SHIPPING DATA
Approximate Net Weight:
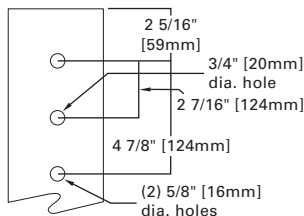**Recessed Door** 47 lbs. (21.79 kgs.)
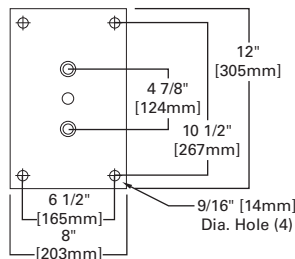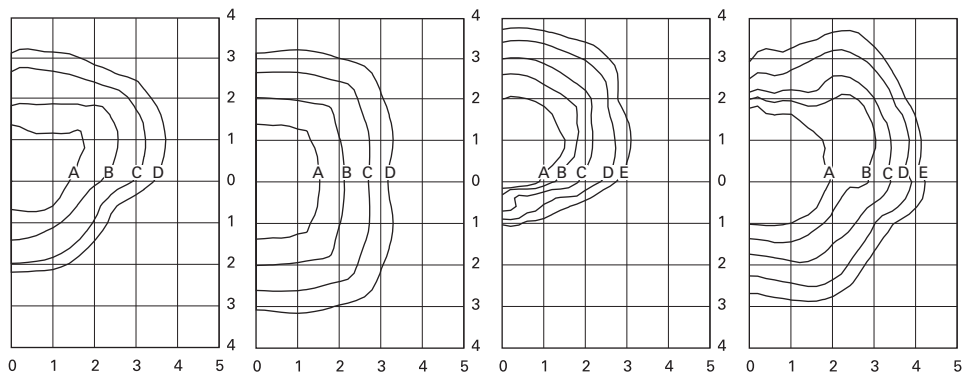**Deep Door** 52 lbs. (23.63 kgs.)

DIMENSIONS

8" [203mm]
11 7/8" [302mm]
1 3/4" [45mm]
16 1/4" [412mm]
23 1/4" [590mm]
8" [203mm]

DRILLING PATTERNS

TYPE "M"
2 5/16" [59mm]
3/4" [20mm] dia. hole
2 7/16" [124mm]
4 7/8" [124mm]
(2) 5/8" [16mm] dia. holes

WALL MOUNT
12" [305mm]
4 7/8" [124mm]
10 1/2" [267mm]
6 1/2" [165mm]
8" [203mm]
9/16" [14mm] Dia. Hole (4)

DARK SKY COMPLIANT
FCO Full Cutoff
In all flat glass configurations.

ISO SYSTEMS CERTIFIED

COOPER Lighting
www.cooperlighting.com

Specifications and Dimensions subject to change without notice.
Consult your representative for additional options and finishes.

TLM_TalonM_ADH082577
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TLM-150-MP-3V-FG
150-Watt MP
14,000-Lumen Clear Lamp
Type III Vertical
Flat Glass

TLM-150-MP-AS-FG
150-Watt MP
14,000-Lumen Clear Lamp
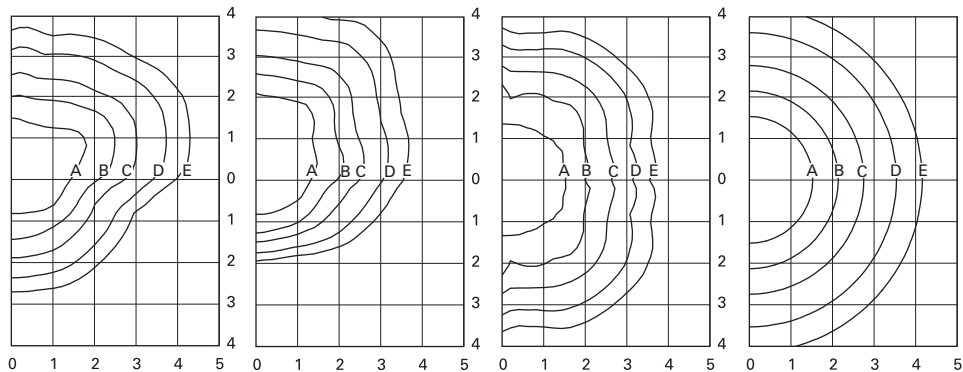Area Square
Flat Glass

TLM-250-MP-SL-FG
250-Watt MP
22,000-Lumen Clear Lamp
Spill Light Eliminator
Flat Glass

TLM-400-MP-3S-FG
400-Watt MP
40,000-Lumen Clear Lamp
Type III Segmented
Flat Glass

Footcandle Table

Select mounting height and read across for footcandle values of each isofootcandle line. Distance in units of mounting height.

Mounting Height	Footcandle Values for Isofootcandle Lines				
	A	B	C	D	E
175W [3V/AS]					
15'	1.70	0.85	0.34	0.17	--
20'	**1.00**	**0.50**	**0.20**	**0.10**	--
25'	0.64	0.32	0.13	0.06	--
250W [SL]/400W [3S]					
20'	**2.00**	**1.00**	**0.50**	**0.20**	**0.10**
25'	1.28	0.64	0.32	0.13	0.06
30'	0.88	0.44	0.22	0.09	0.04

TLM-400-MP-3V-SG
400-Watt MP
44,000-Lumen Clear Lamp
Type III Vertical
Sag Glass

TLM-400-MP-4V-SG
400-Watt MP
44,000-Lumen Clear Lamp
Type IV Automotive Perimeter
Sag Glass

TLM-400-MP-5S-FG
400-Watt MP
40,000-Lumen Clear Lamp
Type V Segmented
Flat Glass

TLM-400-MP-AR-SG
400-Watt MP
44,000-Lumen Clear Lamp
Area Round
Sag Glass

Footcandle Table

Select mounting height and read across for footcandle values of each isofootcandle line. Distance in units of mounting height.

Mounting Height	Footcandle Values for Isofootcandle Lines				
	A	B	C	D	E
400W [3V/4V/5S/AR]					
20'	3.00	1.50	0.75	0.30	0.15
25'	**2.00**	**1.00**	**0.50**	**0.20**	**0.10**
30'	1.38	0.69	0.34	0.13	0.06

ORDERING INFORMATION

Sample Number: TLM-400-MP-MT-3F-FG-BK-HS

Product Family [1]
TLM=Talon Site Medium

Lamp Wattage [2]

MP
70=70W
100=100W
150=150W
175=175W
200=200W[3]
250=250W
320=320W[3]
350=350W[3]
400=400W[3]

HPS
70= 70W
100= 100W
150= 150W
250= 250W
400= 400W

MH [4]
175= 175W
250= 250W
400= 400W[3]

Lamp Type
MP= Pulse Start Metal Halide
HPS= High Pressure Sodium
MH= Metal Halide[4]

Voltage [5]
120=120V
208=208V
240=240V
277=277V
347=347V
480=480V
DT=Dual-Tap[6]
MT=Multi-Tap[6]
TT=Triple-Tap[6]

Distribution

Horizontal Lamp
2F=Type II Formed
2S=Type II Segmented
3F=Type III Formed
3S=Type III Segmented
4F=Type IV Formed
4S=Type IV Segmented
5F=Type V Formed
5S=Type V Segmented
SL=Spill Light Eliminator
AF= Automotive Front Row

Vertical Lamp
3V= Type III Vertical[7]
4V= Type IV Automotive Perimeter
AR= Area Round[7]
AS= Area Square[7]

Lens Type
FG= Flat Glass
SG= Sag Glass

Color [8]
AP=Grey
BZ=Bronze
BK=Black
WH=White
DP=Dark Platinum
GM=Graphite Metallic

Options [9]
F=Single Fuse (120, 277 or 347V)[10]
FF=Double Fuse (208, 240 or 480V)[10]
L=Lamp Included
P=Button Type Photocontrol (120, 208, 240 or 277V)[10]
EM=Quartz Restrike w/Delay (Also Strikes at Cold Start)[11]
Q=Quartz Restrike[11]
EM/SC=Quartz Emergency Separate Circuit[11]
PT=Electrical Power Tray
R=NEMA Twistlock Photocontrol Receptacle
HS= Internal House-side Shield[12]
VS= Polycarbonate Vandal Shield
DD= Deep Door
WM= Wall Mount with 8 Inch Arm
DM= Direct Mount for Round or Square Pole
DW= Direct Wall Mount
MS= External Mast Arm Adapter
HL= Hi/Low Dimming[13]

Accessories [14]
MA1010-XX=Single Tenon Adapter for 3 1/2" O.D. Tenon
MA1011-XX=2@180° Tenon Adapter for 3 1/2" O.D. Tenon
MA1012-XX=3@120° Tenon Adapter for 3 1/2" O.D. Tenon
MA1013-XX=4@90° Tenon Adapter for 3 1/2" O.D. Tenon
MA1014-XX=2@90° Tenon Adapter for 3 1/2" O.D. Tenon
MA1015-XX=2@120° Tenon Adapter for 3 1/2" O.D. Tenon
MA1016-XX=3@90° Tenon Adapter for 3 1/2" O.D. Tenon
MA1017-XX=Single Tenon Adapter for 2 3/8" O.D. Tenon
MA1018-XX=2@180° Tenon Adapter for 2 3/8" O.D. Tenon
MA1019-XX=3@120° Tenon Adapter for 2 3/8" O.D. Tenon
MA1045-XX=4@90° Tenon Adapter for 2 3/8" O.D. Tenon
MA1048-XX=2@90° Tenon Adapter for 2 3/8" O.D. Tenon
MA1049-XX=3@90° Tenon Adapter for 2 3/8" O.D. Tenon
OA/RA1016= NEMA Twistlock Photocontrol (105-285V)
OA/RA1027= NEMA Twistlock Photocontrol (480V)
OA/RA1201= NEMA Twistlock Photocontrol (347V)
OA/RA1013= Shorting Cap
MA1213-XX= External House-side Shield Kit [EPA= 0.38]

Notes: 1 8" arm and round pole adapter included with fixture. 2 Standard with mogul-base socket for HPS, MH and 250 - 400MP. Standard with medium-base socket for 200W MP and below. 3 Requires reduced envelope lamp. 4 175, 250 and 400W MH available for non-US markets only. 5 Products also available in non-US voltages and 50Hz for international markets. Consult factory for availability and ordering information. 6 Dual-Tap ballast is 120/277V wired 277V. Multi-Tap ballast is 120/208/240/277V wired 277V. Triple-Tap ballast is 120/277/347V wired 347V. 7 Vertical lamp optics ship standard with deep door. 250 - 400W not available with flat glass. 8 Custom and RAL color matching available upon request. Consult Cooper Lighting Representative for further information. 9 Add as suffix. 10 Must specify voltage. 11 Quartz options not available with SL and AF optics. 12 House-side shield not available on 5S, 5F, AS, AR, and SL optics. 13 Requires vertical lamp orientation. Provides 24V low voltage leads used in dimming control. 14 Order separately, replace XX with color designation.
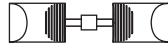
MOUNTING CONFIGURATIONS

Wall Mount

Arm Mount Single
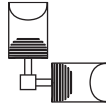E.P.A.
TLM
Recessed Door 1.22
Deep Door 1.45

Arm Mount 2 @ 180°
E.P.A.
TLM
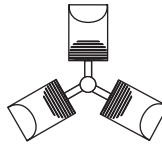Recessed Door 2.44
Deep Door 2.90

Arm Mount 2 @ 90°
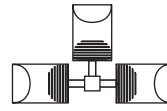E.P.A.
TLM
Recessed Door 2.44
Deep Door 2.90

Arm Mount 3 @ 120°
E.P.A.
TLM
Recessed Door 3.23
Deep Door 3.92

Arm Mount 3 @ 90°
E.P.A.
TLM
Recessed Door 3.23
Deep Door 3.92

Arm Mount 4 @ 90°
E.P.A.
TLM
Recessed Door 3.63
Deep Door 4.43