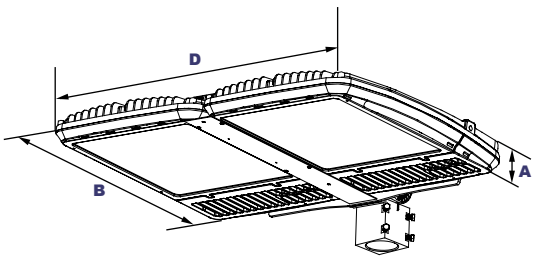
STR45Q Twin

Twin Large Stratus Area & Flood

BUY AMERICAN ACT COMPLIANT

L70 25°C — **290,000 Hours**

Shown with "SF" Mounting and "TM" Twin Mount Bracket Option For Easy Field Mounting to Pole with Tenon Top.



Dimensions	
Width (D)	31½″ (798mm)
Length (B)	22″ (563mm)
Height (A)	4″ (102mm)

The 1882 Lighting STR45Q StratusTwin luminaire is available with a wide choice of optical distributions designed to replace HID lighting systems to 1500w MH or HPS. Typical applications include general area, parking, flood, and security lighting for auto dealerships, retail centers, industrial parks, schools and universities, public transit and airports, office buildings and medical facilities. Mounting heights of 20 to 50 feet can be used based on light level and uniformity requirements.

Specifications and Features:

Housing:
Die Cast Aluminum Housing and Front Frame, Integral Heat Sinking and Driver Compartment. Photocell Adaptable. Nickel-Plated Stainless Steel Hardware.

Listing & Ratings:
ETL: Listed for Wet Locations, ANSI/UL 1598, 8750; IP66 Sealed LED Compartment.

Finish:
Textured Architectural Bronze Powdercoat Finish Over a Chromate Conversion Coating. Custom Colors Available Upon Request.

Lens:
Tempered Clear Flat or SoftLED Flat Glass, or Tempered Clear Flat Prismatic Glass Lens.

Mounting Options:
Mounts with Adjustable Slipfitter. (Factory Installed)

EasyLED LED:
Aluminum Boards

Driver:
Electronic Driver, 120-277V, 50/60Hz or 347-480V, 50/60Hz; Less Than 20% THD and PF>0.90. Standard Internal Surge Protection 6kV. 0-10V Dimming Standard for a Dimming Range of 100% to 10%; Dimming Source Current is 150 Microamps.

Controls:
Fixtures Ordered with Factory-Installed Photocell or Motion Sensor Controls are Internally Wired for Switching and/or 1-10V Dimming Within the Housing. Remote Direct Wired Interface of 1-10V Dimming is Not Implied and May Not Be Available, Please Consult Factory. Fixtures are Tested with 1882 Lighting Controls and May Not Function Properly With Controls Supplied By Others. Fixtures are NOT Designed for Use with Line Voltage Dimmers.

Warranty:
5-Year Warranty for -40°C to +50°C Environment.

See Page 7 for Projected Lumen Maintenance Table.

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Order Information Example: STR45QF1X256U5KCZSFTM

STR45Q							SF	TM
Model	**Optic/Beam**	**Wattage**	**Driver**	**CCT**	**Lens**	**Color**	**Mounting**	**Options**
STR45Q=Large Stratus Twin Area and Flood Light	**A**=Type I/NEMA 7H x 5V **B**=Type II/NEMA 7H x 6V **C**=Type III/NEMA 7H x 7V **D**=Type IV/NEMA 6H x 5V **F**=Type V/NEMA 7H x 7V **I**=Narrow Beam/NEMA 4H x 4V* ***5K Models Only.** **See Page 5 & 7 for Distribution Information.**	**1X167**=334w* **1X256**=512w♦ ***167w Each Head** **♦256w Each Head**	**U**=120-277V **H**=347-480V	**3K**=3000K* **4K**=4000K **5K**=5000K ***F & C Optics Only**	**C**=Standard Clear Flat Glass Lens **S**=SoftLED Flat Glass Lens* **P**=Clear Flat Prismatic Glass Lens* ***Type V Optic Only**	**Z**=Bronze **C**=Custom (Consult Factory)	**SF**=Slipfitter, Included ①	**TM**=Twin Mount Bracket Assembly, Factory Installed **SF**=Single Fuse* **DF**=Double Fuse* **SP**=Surge Protection **R3**=3-Pin Twist Lock Photocell Receptacle ① **R5**=5-Pin Twist Lock Photocell Receptacle ① **R7**=7-Pin ANSI C136.41—2013 Twist Lock Photocell Receptacle **S23**=Internal Microwave Sensor with Dimming for Mounting Heights of 35' or Less* ① **S43**=Microwave On/Off Motion Sensor for Mounting Heights of 8' to 19'* ***120-277V Models Only.**

Notes
① **Maximum tilt angle of 45° above horizontal with R3, R5, or R7 photocell receptacle options**

Accessories & Replacement Parts:

Mounting Accessories (Order Separately, Field Installed)

PTSB1SZ	Single Pole Tenon Spoke Bracket, 2⅜" Horizontal Mounting Arm, Bronze Powdercoat Finish, Includes Hardware.
PTSB2180SZ	Twin Pole Tenon Spoke Bracket, 2⅜" Horizontal 180° Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.

PTSB1SZ

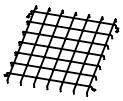
PTSB2180SZ

Accessories (Order Separately, Field Installed)

P18131	Twist Lock Non-Shorting (Open) Cap Disconnects Service to Fixture for Temporary or Permanent Disabling (Fixture Always Off). IP65, 480V Maximum.
P18132	Twist Lock Shorting Cap Provides Fixed Service to Fixture (Fixture Always on). IP65, Rated Load 7200w Tungsten.
P18140	110-120VAC Instant Twist Lock Photocell
P18152	277VAC Time Delay Twist Lock Photocell
P18156	120-277VAC Universal Twist Lock Photocell
P18157	480VAC Time Delay Twist Lock Photocell. For 480V use only.
ACCHSG1Z	Die Cast Accessory Housing for Installing Sensors or Other Lighting Controls, Bronze Powdercoat Finish
KH45GSZ	Aluminum Glare/House Side Shield, Bronze Powdercoat Finish, Includes Hardware. KH45 Twin Requires Two.
KH45WG	Wire Guard, Stainless Steel Construction, Includes Hardware. KH45 Twin Requires Two.
ACCHSG3	Bronze UV-Stabilized Polycarbonate Housing for Installing Sensors, Includes Sensor Bracket and Gasket.

ACCHSG1Z

KH45GSZ


KH45WG

ACCHSG3

Replacement Parts (Order Separately, Field Installed)

KH45GLSS	SoftLED Flat Glass Lens
KH45GLP	Tempered Prismatic Flat Glass Lens.
FL90SFXZ	External Mount Die-Cast Adjustable Slipfitter for 2⅜" Tenons, Bronze Powdercoat Finish, Includes Hardware.
P17117	Internal Microwave Sensor with Dimming, 120-277VAC, 50/60Hz. See P17117 Specification Page for Details.
P17123	Internally Mounted Microwave On/Off Motion Sensor for Mounting Heights of 8' to 19', 120-277VAC, 50/60Hz

P17117

P17123

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Mounting Options:

STR45Q with "SF" External Mount Slipfitter & Twin Mount Assembly (SF, TM)

External Mount Die-Cast Adjustable Slipfitter for 2⅜" Tenons, Bronze Powdercoat Finish, Includes Hardware.

Notes

① **Maximum tilt angle of 45° above horizontal with R3, R5, or R7 photocell receptacle options**

EPA (Effective Projected Area)

Shown with Slipfitter mounting.

Configuration	EPA (Sq. Ft.)	Weight (Lbs.)
1	1.20	74 Lbs

Configuration	EPA (Sq. Ft.)	Weight (Lbs.)
2@180° Mount	2.40	148 Lbs

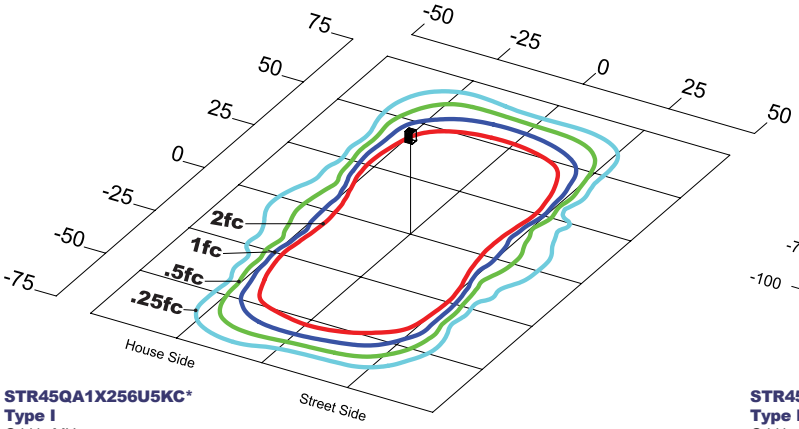
Note: Values for horizontal mounting.

STR45Q Twin

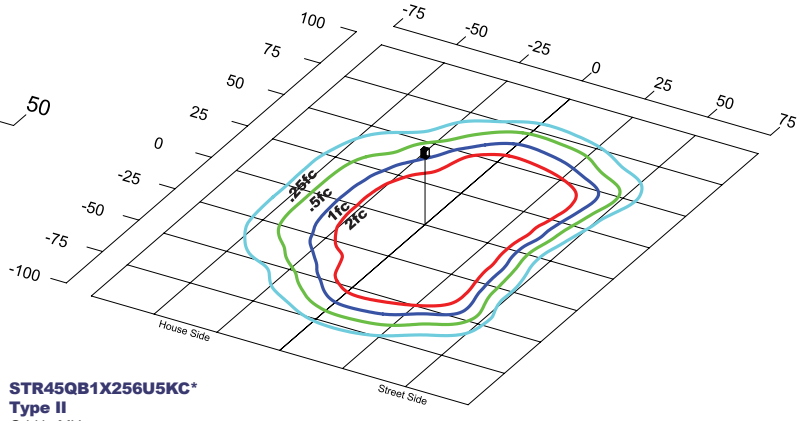
Twin Large Stratus Area & Flood

BUY AMERICAN ACT COMPLIANT

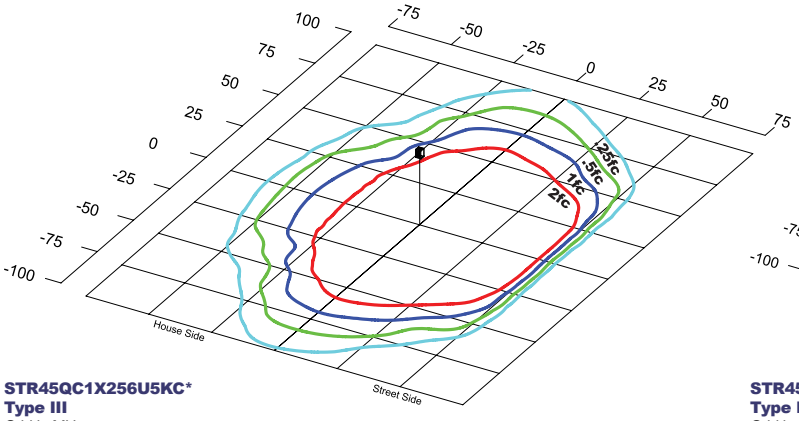
Photometric Data



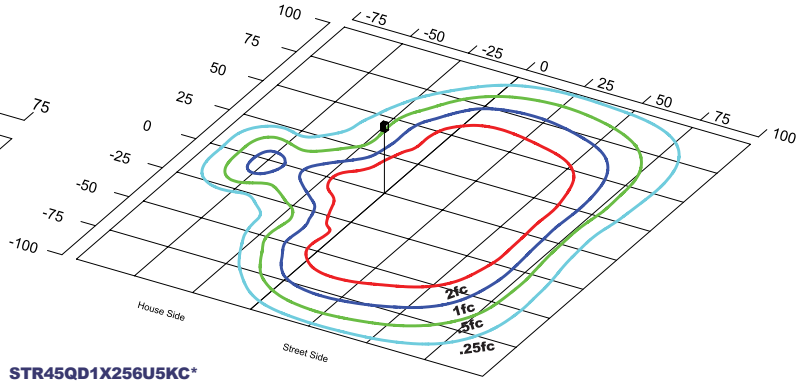
STR45QA1X256U5KC*
Type I
Grid in MH
MH=25 Feet



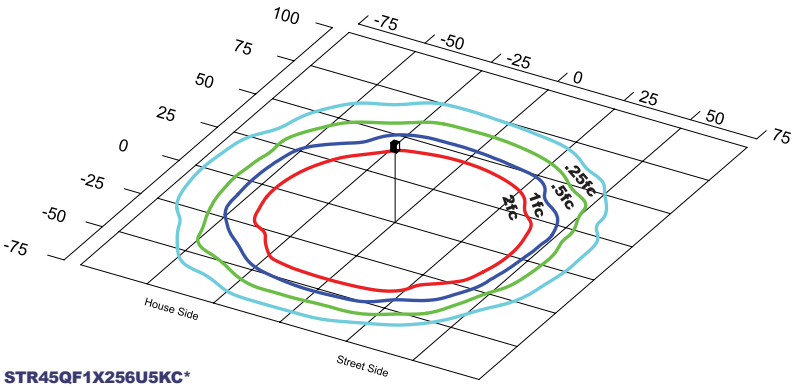
STR45QB1X256U5KC*
Type II
Grid in MH
MH=25 Feet



STR45QC1X256U5KC*
Type III
Grid in MH
MH=25 Feet



STR45QD1X256U5KC*
Type IV
Grid in MH
MH=25 Feet



STR45QF1X256U5KC*
Type V
Grid in MH
MH=25 Feet

*** "SFTM" Combined Output for "TM" Bracket**

STR45Q Twin

Twin Large Stratus Area & Flood

BUY AMERICAN ACT COMPLIANT

Photometric Performance

LED Board Watts	Drive Current (mA)	Input Watts	Optics	5000 CCT 80 CRI					4000 CCT 80 CRI					3000 CCT 80 CRI				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
EasyLED 2x167w (2 Heads Combined)	525	358 (Combined Input Watts)	A Type I	44,974	126	5	0	3	43,287	121	5	0	3	-	-	-	-	-
			B Type II	42,904	120	4	0	3	41,295	115	4	0	3	-	-	-	-	-
			C Type III	47,132	132	4	0	4	45,364	127	4	0	4	43,597	122	4	0	4
			D Type IV	47,776	134	4	0	5	45,984	129	4	0	5	-	-	-	-	-
			F Type V	44,958	126	5	0	2	43,272	121	5	0	2	41,586	116	5	0	2
EasyLED 2x256w (2 Heads Combined)	525	549 (Combined Input Watts)	A Type I	68,942	125	5	0	4	66,357	121	5	0	4	-	-	-	-	-
			B Type II	65,769	120	5	0	4	63,303	115	5	0	4	-	-	-	-	-
			C Type III	72,250	132	5	0	5	69,541	127	5	0	5	66,831	122	5	0	5
			D Type IV	59,615	109	4	0	5	57,380	104	4	0	5	-	-	-	-	-
			F Type V	68,918	125	5	0	3	66,334	121	5	0	3	63,750	116	5	0	3

STR45Q Twin

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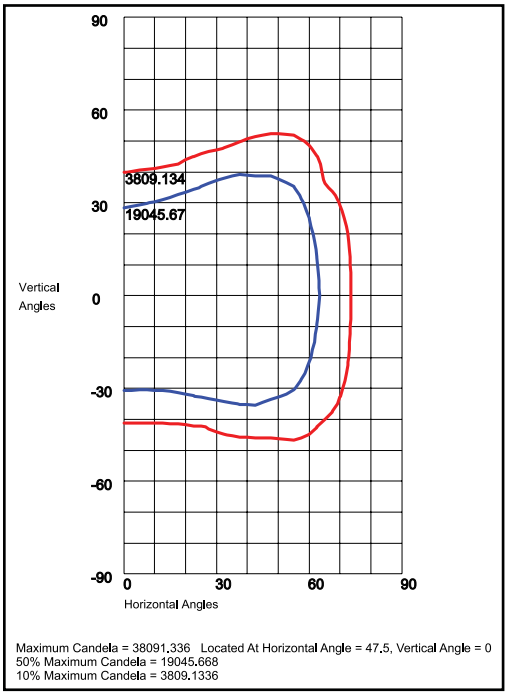
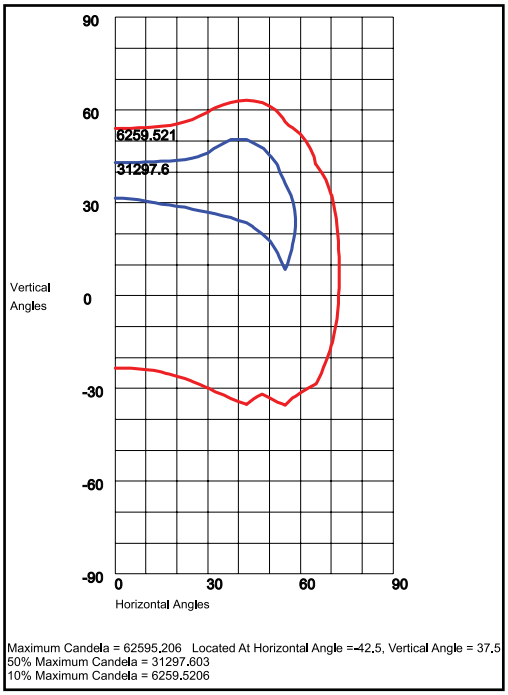
Photometric Data

*"SFTM" Combined Output for "TM" Bracket



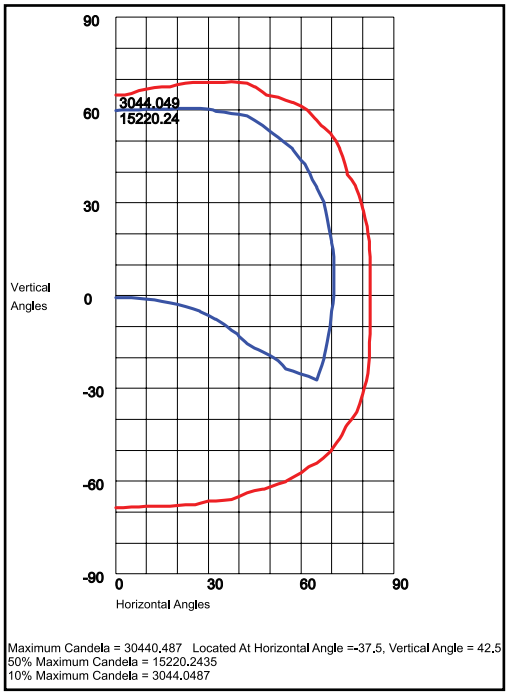
Maximum Candela = 38091.336 Located At Horizontal Angle = 47.5, Vertical Angle = 0
50% Maximum Candela = 19045.668
10% Maximum Candela = 3809.1336

STR45QA1X256U5KC
130°H x 70°V, NEMA 7H x 5V



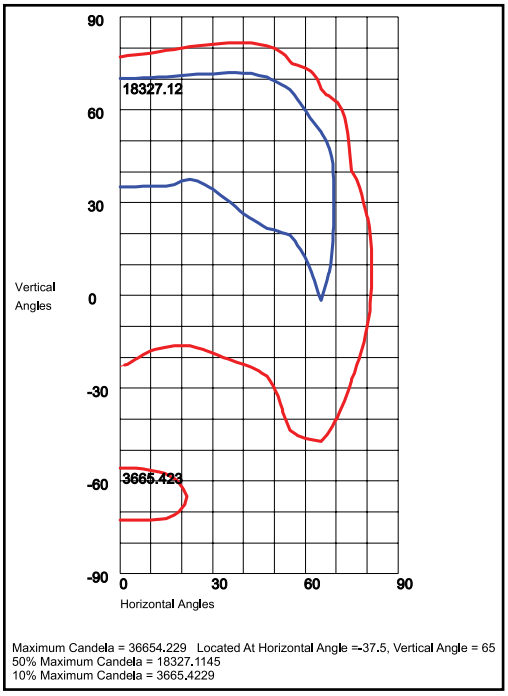
Maximum Candela = 62595.206 Located At Horizontal Angle =-42.5, Vertical Angle = 37.5
50% Maximum Candela = 31297.603
10% Maximum Candela = 6259.5206

STR45QB1X256U5KC
110°H x 30°V, NEMA 7H x 6V



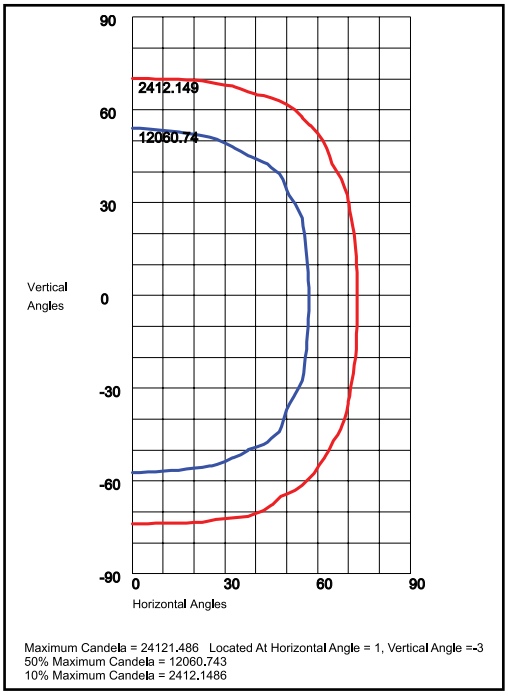
Maximum Candela = 30440.487 Located At Horizontal Angle =-37.5, Vertical Angle = 42.5
50% Maximum Candela = 15220.2435
10% Maximum Candela = 3044.0487

STR45QC1X256U5KC
120°H x 70°V, NEMA 7H x 7V



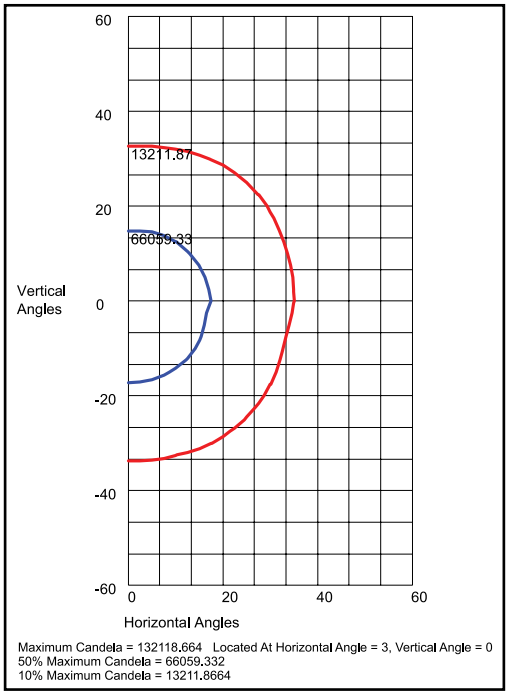
Maximum Candela = 36654.229 Located At Horizontal Angle =-37.5, Vertical Angle = 65
50% Maximum Candela = 18327.1145
10% Maximum Candela = 3665.4229

STR45QD1X256U5KC
110°H x 30°V, NEMA 6H x 5V



Maximum Candela = 24121.486 Located At Horizontal Angle = 1, Vertical Angle =-3
50% Maximum Candela = 12060.743
10% Maximum Candela = 2412.1486

STR45QF1X256U5KC
110°H x 110°V, NEMA 7H x 7V



Maximum Candela = 132118.664 Located At Horizontal Angle = 3, Vertical Angle = 0
50% Maximum Candela = 66059.332
10% Maximum Candela = 13211.8664

STR45QI1X256U5KC*
30°H x 30°V, NEMA 4H x 4V

*** "SFTM" Combined Output for "TM" Bracket**

STR45Q Twin

Twin Large Stratus Area & Flood

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Photometric Performance

LED Board Watts	Drive Current (mA)	Input Watts	Beam		5000 CCT 80 CRI Lumens	5000 CCT 80 CRI LPW	4000 CCT 80 CRI Lumens	4000 CCT 80 CRI LPW	3000 CCT 80 CRI Lumens	3000 CCT 80 CRI LPW
EasyLED 2X167w (2 Heads Combined)	525	358 (Combined Input Watts)	A	130°H x 70°V, NEMA 7H x 5V	44,944	126	43,258	121	-	-
			B	110°H x 30°V, NEMA 7H x 6V	42,961	120	41,350	116	-	-
			C	120°H x 70°V, NEMA 7H x 7V	46,794	131	45,039	126	43,284	121
			D	110°H x 30°V, NEMA 6H x 5V	47,250	132	45,479	127	-	-
			F	110°H x 110°V, NEMA 7H x 7V	45,074	126	43,383	121	41,693	117
			I	30°H x 30°V, NEMA 4H x 7V	48,316	135	46,504	130	-	-
EasyLED 2X256w (2 Heads Combined)	525	549 (Combined Input Watts)	A	130°H x 70°V, NEMA 7H x 5V	68,895	125	66,312	121	-	-
			B	110°H x 30°V, NEMA 7H x 6V	65,857	120	63,387	115	-	-
			C	120°H x 70°V, NEMA 7H x 7V	71,732	131	69,042	126	66,352	121
			D	110°H x 30°V, NEMA 6H x 5V	58,965	107	56,754	103	-	-
			F	110°H x 110°V, NEMA 7H x 7V	69,094	126	66,504	121	63,913	116
			I	30°H x 30°V, NEMA 4H x 7V	74,070	135	71,294	130	-	-

Projected Lumen Maintenance

Data shown for 5000 CCT			Compare to MH			
TM-21-11	Input Watts	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated LED Life
L70 Lumen Maintenance @ 25°C / 77°F	All wattages up to and including 549w	1.00	0.97	0.95	0.90	290,000
L70 Lumen Maintenance @ 50°C / 122°F		1.00	0.94	0.88	0.76	84,000
L80 Lumen Maintenance @ 40°C / 104°F		1.00	0.95	0.91	0.81	108,000

NOTES:
1. Projected per IESNA TM-21-11. Data references the extrapolated performance projections for the base model in a 25°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.
2. Compare to MH box indicates suggested Light Loss Factor (LLF) to be used when comparing to Metal Halide (MH) systems.