vode Adaptive Architectural Lighting Systems

Spec Guide

WingRail | Table Arm | 107

Task lighting for table, workstation, and carrel desk applications.

WingRail: direct or indirect, 370° rotation.

Benefits & Features

Minimal Profile, Robust Design
Asymmetric profile, 1.14" (29mm) x 2.12" (54mm).

Superior Light Quality & Performance
Output up to 1376 lm/ft (4516 lm/m) (HO), 121 lm/W (SO). 80 or 90 CRI & tunable white (2200K-5000K) available.
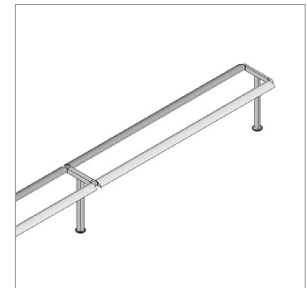
Adaptive Power
Full range dimming power for all protocols. Integral or remote power available.

Better Optics & Beam Control Options
Asymmetric distribution. White or black baffle, EdgeSoft™ lens or diffuse lens and narrow optics available. Directional control with 370° rotation, angle gauge and lock.

Arm Anchor®

Double Rail with Tee, Arm Anchor, Continuous System

Build Your Specification

107-WG				TA	▸▸

System & Rail Type	Single/Double Rail	System Length	Rail Length	Mounting	Arm Length
107-WG WingRail	**01** Single Rail **03** Double Rail with 3" (76mm) Tee **06** Double Rail with 6" (152mm) Tee **12** Double Rail with 12" (305mm) Tee **ZZ** Other (please specify)	specify overall system length in ft/in or M/mm. *Corner and Shapes Available* ***See Guide*** *for details.*	**24** 24" (610mm) **36** 36" (914mm) **48** 48" (1219mm) **60** 60" (1524mm) **ZZ** Other rail length or layout (please specify) *See **Rail Length Chart** for more details.* ⚠ ***Custom lengths may result in light gaps on the fixture. See** **Rail Length Chart** **for more details.***	**TA** Table Arm	**18** 18" arm (457mm) **ZZ** Other (please specify) [1]

▸▸			▸▸

Power Location

Remote Power

Specify mounting and harness length code
example: **2T25, 2T50**...etc.

Mounting Option	Wire Harness
2T Arm Anchor	**10** 10' (3.048m) Wire Harness **25** 25' (7.62m) Wire Harness **50** 50' (15.24m) Wire Harness **75** 75' (22.86m) Wire Harness **100** 100' (30.48m) Wire Harness

Power Type*

Flexible 1 to 1 Power

AE 0-10V, 1.0% Dimming
AT 0-10V, 0.1% Dimming
AD DALI, 0.1% Dimming
AX DMX, 100-0% Dimming
AH Hi-lume 1% EcoSystem, Soft On / Fade to Black Technology, LDE[1]
AH2 ELV 1% 2-wire (Forward and Reverse Phase)

Optimized Power

Add '**O**' to power type
example: AE**O**, AT**O**...etc. [2]

VodeNODE

Add '**N**' to power type for Flexible 1 to 1 Power
Add '**ON**' to power type for Optimized Power
example: AE**N**, AT**N**, AE**ON**, AD**ON**...etc. [3]

ZZ Other (please specify)

*See **Power Guide** for driver features & limitations.*

Voltage

1 120V
2 120V - 277V
X Not Yet Specified

Emergency Power

0 No Emergency Power
ZZ Emergency Power
(specify requirements)

▸▸	Z			

LED Type

Z Zipper Board

Lumen Output*

LO Low Output
SO Standard Output
HO High Output
ZZ Other (please specify)

*See **IES Files** page for details.*
*See **Power Guide** for driver features & limitations.*

Color Temperature

80+ CRI

27 2700K
30 3000K
35 3500K
40 4000K

90+ CRI

279 2700K
309 3000K
359 3500K
409 4000K

ZZ Tunable White Available
See Guide *for details.*

Optics

Zipper Board (Z)

WB White Baffle with EdgeSoft™
BB Black Baffle with EdgeSoft
C1 Clear with Edge Softening
D1 Diffuse

Sensors

0 None
ZZ Other
(specify requirements)

▸▸	

Finish

AL Clear Anodized
WH White Powder Coat
BL Black Anodized
ZZ Other (please specify)

Options

0 None
1 On/Off Switch [4]
9 9' 18/3 Cord and Plug

NOTES & LIMITATIONS

[1] Arm lengths > 48" not recommended.
[2] Optimized Power is not available with Hi-lume 1% EcoSystem (AHO) Power Type.
[3] VodeNODE enclosure is not available with ELV 1% 2-wire (AH2) Power Type.
[4] One On/Off Switch per LED Driver.

Listed to UL standards for damp location by a Nationally Recognized Testing Laboratory (NRTL) recognized by OSHA. Certain limitations exist for each Certification. Contact factory for verification.

Applications

Corporate, Educational, and Library

Saddleback College Library, Mission Viego, CA

Libbie Mill Library, Richmond, VA

Penn State University, Dickinson School of Law Library, University Park, PA

Declare Label

All Vode Lighting linear light fixtures proudly carry the Red List Approved designation.
See **International Living Future Institute** website for details.

Declare.℠

Vode Adaptive Architectural Lighting Systems
Vode Lighting LLC

Final Assembly: Sonoma, California, US
Life Expectancy: 10+ Year(s)
End of Life Options: Recyclable (100%)

Ingredients:

Anodized Aluminum (6063-T5 Alloy); Steel; Small Electrical Component (RoHS)[1]; Copper; Fluorinated Ethylene Propylene (masterbatch)[2]; Polymethyl methacrylate (PMMA); Stainless Steel; Polyoxymethylene Copolymer (POM); Styrene-butadiene polymer, hydrogenated; Poly(methyl methacrylate/butyl acrylate/styrene) (PMMA/BA/S); Styrene/butadiene copolymer; Distillates; Polypropylene; Calcium carbonate; Polycarbonate; EVA Copolymer; Methyl methacrylate (MMA); Polyphenylene Oxide; Brass; Tin, Organic

[1]LBC Temp Exception RL-002 - Small Electrical Components
[2]LBC Temp Exception RL-023 - Wire Sheathing Subject to NFPA 90A, NFPA 262, UL® 910

Living Building Challenge Criteria: Compliant

I-13 Red List:
☐ LBC Red List Free
■ LBC Red List Approved
☐ Declared

% Disclosed: 100% at 100ppm
VOC Content: Not Applicable

I-10 Interior Performance: Not Applicable
I-14 Responsible Sourcing: Not Applicable

VDE-0001
EXP. 01 JAN 2025
Original Issue Date: 2018

MANUFACTURER RESPONSIBLE FOR LABEL ACCURACY
INTERNATIONAL LIVING FUTURE INSTITUTE™ living-future.org/declare

Red List Approved

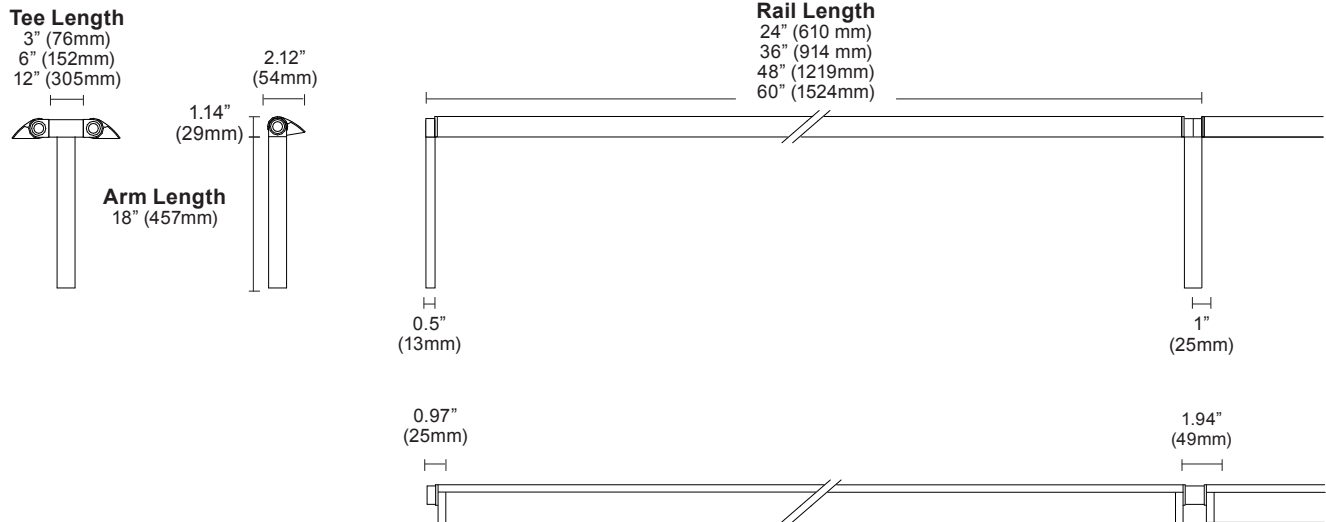Declare.

Structure

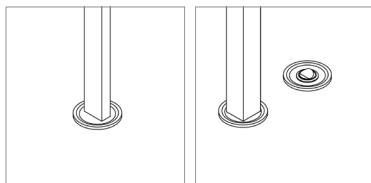|	
Rail Lengths	24" (610mm) - 60" (1524mm). Modified lengths available. *See **Rail Length Chart** for more details.*
Rail Dimensions	1.14" (29mm) x 2.12" (54mm) x length.
Construction	Extruded and machined 6063 aluminum. Clear anodized, black anodized, white painted and other finishes available.
Mounting	Table mount to Arm Anchor®.
Arm Length	18" (457mm). Non-standard arm lengths available. Arm lengths > 48" (1219mm) not recommended.
System Run Length	24" (610mm) minimum. Unlimited maximum.
Operating Temperature	32°F to 104°F (0°C to 40°C).
Humidity	0-85%, non-condensing.
Weight	1.04 lbs per ft (0.47kg per 305mm). Power supply and housing not included.

Materials

LED Board Construction	Aluminum core PCB, black LCP connectors, RoHS compliant.
Clear Lens, Diffuse Lens	High-impact extruded acrylic glass (PMMA).
Baffle	6063 Aluminum, RoHS compliant painted finish.
Power Cable	Ø4mm, 18/2 AWG, Plenum (CMP) rated semi-rigid PVC or FEP, flame tested UL-910 *(PVC free in 2020)*.
Cable Connectors	Unfilled black nylon, rated UL 94 V-0, halogen free, PVC or FEP overmold, RoHS compliant *(PVC free in 2020)*.
Remote Linear Power Housing (RLP)	20.7" x 2.375" x 2.53", 0.054" formed Galvanized Steel.
Remote Brick Power Housing (RBP)	4.32" x 3.37" x .078" Galvanized Steel mounting plate.

Dimensions

Tee Length
3" (76mm)
6" (152mm)
12" (305mm)

2.12" (54mm)

1.14" (29mm)

Arm Length
18" (457mm)

Rail Length
24" (610 mm)
36" (914 mm)
48" (1219mm)
60" (1524mm)

0.5" (13mm)

1" (25mm)

0.97" (25mm)

1.94" (49mm)

Mounting Options

Arm Anchor®
h0.1" (3mm)
Ø2" (51mm)

On/Off Switch
(optional)

Layout

Center to Center
23.75" (603mm)
35.75" (908mm)
47.75" (1213mm)
59.75" (1518mm)

LED Driver

Center to Center
24" (610mm)
36" (914mm)
48" (1219mm)
60" (1524mm)

LED Driver

Center to Center
23.75" (603mm)
35.75" (908mm)
47.75" (1213mm)
59.75" (1518mm)

LED Driver

0.25"
(6mm)

Center to Center
23.75" (603mm)
35.75" (908mm)
47.75" (1213mm)
59.75" (1518mm)

LED Driver

Center to Center
23.75" (603mm)
35.75" (908mm)
47.75" (1213mm)
59.75" (1518mm)

LED Driver

Center to Center
23.5" (597mm)
35.5" (902mm)
47.5" (1207mm)
59.5" (1511mm)

LED Driver

Corner and Shapes Available (Square, Rectangle, L-Shape, U-Shape, ZigZag) *See Guide for details*.

Power and Controls

| Power Type	Class 2 (<60V output) constant current driver.
Dimming Controls	Dimming (0.1%, 1%), 0-10V, DALI, DMX, Hi-lume 1% are available. *See Power Guide for details*.
Input Voltage	120V - 277V, 50/60hz.
Power Location	Remote power. Maximum remote distance up to 100' (30.5m) *depending* on driver selection. *See Power Guide for details*.

Remote power is locating the power supply away from the fixture. Remote power comes in two housing styles: brick style and linear style. Consult *Power Guide* to determine which type you will receive.

Remote Brick Power Housing
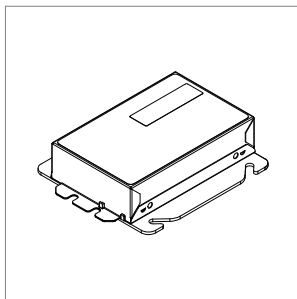
Supplied for some remote power applications. One remote power supply housing is supplied for each rail. Provided driver mounting plate fits standard 4" metal, square J-Boxes with a minimum volume of 21 in^3 (J-Box not provided).
See *Tech Sheet* for details.

Remote Linear Power Housing
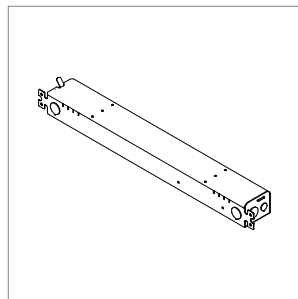
One remote power supply housing is supplied with each power supply. All Vode linear remote drivers come in a 0.054" (0.8mm) formed galvanized steel power supply housing with five (5) knockouts: (4) 1-1/8", (1) 7/8" and (1) 9/16". Accommodates standard linear power supplies.
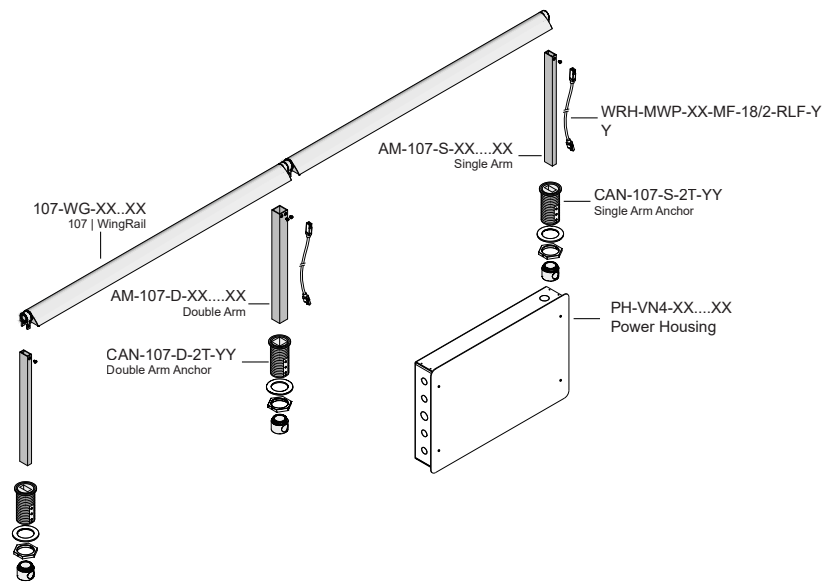See *Tech Sheet* for details.

Wire Harness
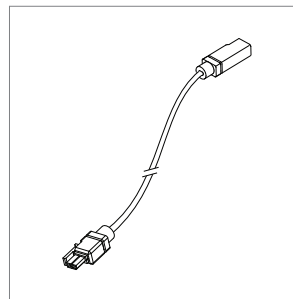
Wire harness connects driver to rail section. Lengths of 10' (3.0m) & 25' (7.6m) with snap-lock connectors for quick and easy installation. Multiple harnesses may be combined for lengths up to 100' (30.5m).
See *Tech Sheet* for details.
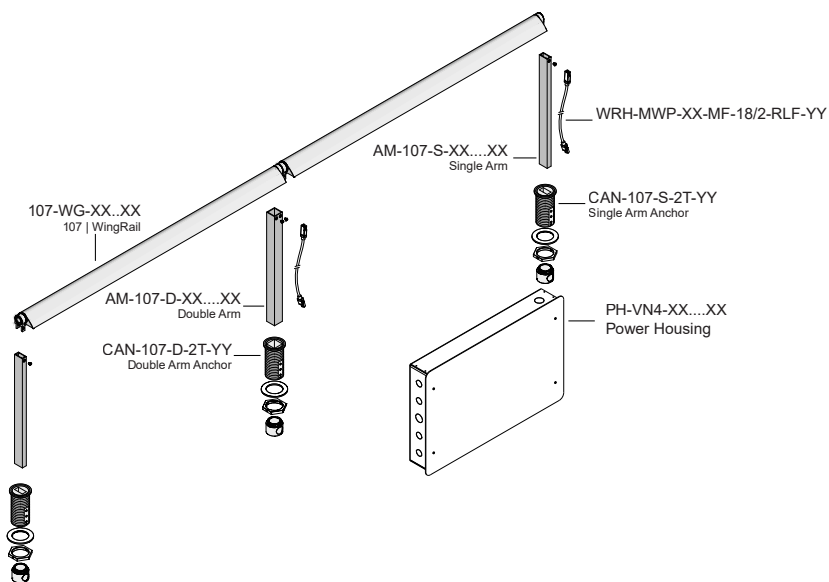
Power and Controls

Flexible 1 to 1 power

For Flexible 1 to 1 Power, Vode supplies one single output driver per fixture, allowing each fixture to be controlled independently. Direct/Indirect fixtures are supplied with two single output drivers, allowing the direct and indirect lighting to be controlled independently. Consult **Power Guide** to determine which type you will receive.

WRH-MWP-XX-MF-18/2-RLF-Y
Y

AM-107-S-XX....XX
Single Arm

107-WG-XX..XX
107 | WingRail

CAN-107-S-2T-YY
Single Arm Anchor

AM-107-D-XX....XX
Double Arm

PH-VN4-XX....XX
Power Housing

CAN-107-D-2T-YY
Double Arm Anchor

Optimized Power

To optimize power, Vode configures specifications with drivers that have 2 or 4 outputs. Depending on system configurations and power requirements, up to 4 fixtures can be powered from a 4-output driver. Consult **Power Guide** to determine which type you will receive.

IMPORTANT: Each fixture will still require individual wire harnesses, as shown below.

WRH-MWP-XX-MF-18/2-RLF-YY

AM-107-S-XX....XX
Single Arm

107-WG-XX..XX
107 | WingRail

CAN-107-S-2T-YY
Single Arm Anchor

AM-107-D-XX....XX
Double Arm

PH-VN4-XX....XX
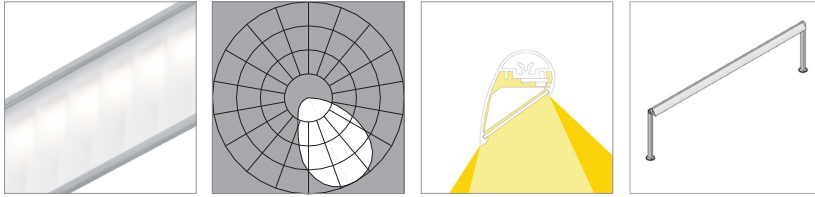Power Housing

CAN-107-D-2T-YY
Double Arm Anchor

Note: Drawings not to scale, for reference only.

Performance | Zipper Board Optics

Zipper Board Optics design has 72 diodes per foot (305mm).

White Baffle with EdgeSoft™ (WB)

L80 >60,000 hours

Low Output (LO)	80 CRI (80min., 84 avg.)				90 CRI (90min., 96 avg.)			
	2700K	3000K	3500K	4000K	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	92	94	96	96	79	82	83	84
Lumens per foot (305mm)	315	325	331	331	271	280	285	288
Watts per foot (305mm)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5

Standard Output (SO)								
Efficacy - Lumens per Watt	106	109	111	111	91	94	96	97
Lumens per foot (305mm)	629	649	662	662	542	560	571	577
Watts per foot (305mm)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0

High Output (HO)								
Efficacy - Lumens per Watt	98	101	103	103	84	87	89	90
Lumens per foot (305mm)	1195	1233	1258	1258	1031	1063	1085	1096
Watts per foot (305mm)	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3

Black Baffle with EdgeSoft™ (BB)
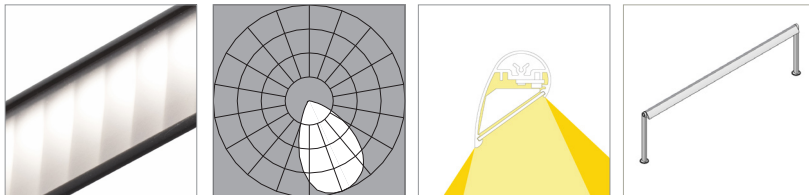
L80 >60,000 hours

Low Output (LO)	80 CRI (80min., 84 avg.)				90 CRI (90min., 96 avg.)			
	2700K	3000K	3500K	4000K	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	57	59	60	60	50	51	52	53
Lumens per foot (305mm)	197	203	207	207	170	175	179	180
Watts per foot (305mm)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5

Standard Output (SO)								
Efficacy - Lumens per Watt	66	68	69	69	57	59	60	61
Lumens per foot (305mm)	393	406	414	414	339	350	357	361
Watts per foot (305mm)	6.1	6.1	6.1	6.1	6.0	6.0	6.0	6.0

High Output (HO)								
Efficacy - Lumens per Watt	61	63	65	65	53	55	56	56
Lumens per foot (305mm)	748	771	787	787	644	665	678	685
Watts per foot (305mm)	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3

Performance | Zipper Board Optics

Zipper Board Optics design has 72 diodes per foot (305mm).
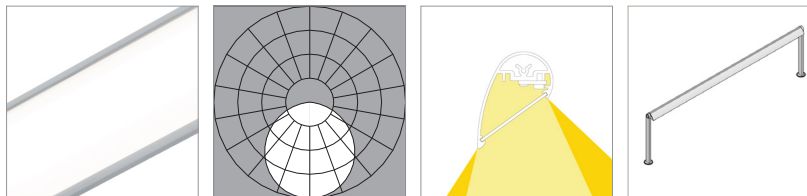
Clear with EdgeSoft™ (C1)
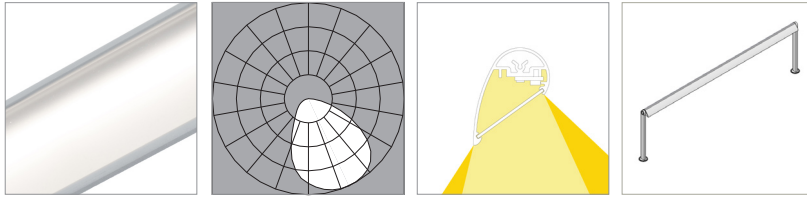
L80 >60,000 hours

Low Output (LO)	80 CRI (80min., 84 avg.)				90 CRI (90min., 96 avg.)			
	2700K	3000K	3500K	4000K	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	110	114	116	116	95	98	100	101
Lumens per foot (305mm)	379	391	399	399	327	337	344	348
Watts per foot (305mm)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Standard Output (SO)								
Efficacy - Lumens per Watt	126	130	133	133	109	113	115	116
Lumens per foot (305mm)	759	783	799	799	654	675	688	695
Watts per foot (305mm)	6.1	6.1	6.1	6.1	6.0	6.0	6.0	6.0
High Output (HO)								
Efficacy - Lumens per Watt	118	122	124	124	102	105	107	108
Lumens per foot (305mm)	1441	1487	1517	1517	1243	1282	1308	1321
Watts per foot (305mm)	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3

Diffuse (D1)

L80 is >60,000 hours

Low Output (LO)	80 CRI (80min., 84 avg.)				90 CRI (90min., 96 avg.)			
	2700K	3000K	3500K	4000K	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	79	81	83	83	68	70	72	73
Lumens per foot (305mm)	271	280	285	285	234	241	246	248
Watts per foot (305mm)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Standard Output (SO)								
Efficacy - Lumens per Watt	91	93	95	95	78	81	83	83
Lumens per foot (305mm)	542	559	571	571	467	482	492	497
Watts per foot (305mm)	6.1	6.1	6.1	6.1	6.0	6.0	6.0	6.0
High Output (HO)								
Efficacy - Lumens per Watt	84	87	89	89	73	75	77	77
Lumens per foot (305mm)	1030	1063	1084	1084	888	916	935	944
Watts per foot (305mm)	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3