LITHONIA LIGHTING®

DIGITAL NAVIGATION

Catalog Number
Notes
Type

Lithonia® SIX Tunable White

LSIXTW

2FT , 4FT, 8FT

BFR - Bezel Frame

FFR - Extruded Flat Frame

FEATURES & SPECIFICATIONS

INTENDED USE — Lithonia SIX has a **nominal 6" wide housing with a 4" wide aperture, available in 2FT, 4FT, and 8FT discrete lengths.** LSIX provides performance, configurability, value and style. LSIX is the ideal choice for the majority of commercial applications where it aligns with modern design trends, easier to install, and is environmentally responsible. North American manufacturing allows for short lead-times. The slim profile of the luminaire, coupled with energy-saving LED technology make LSIX an ideal choice for renovation or new construction. The LSIX recessed linear lay-in offers a high-quality, cost-effective LED lighting solution for schools, offices, retail, healthcare facilities and other commercial spaces.

LSIX Tunable White is perfect in educational and healthcare settings as it allows the light color temperature to be adjusted to the optimal light level for the intended mood. The LSIX Tunable White fixture utilizes our Acuity **nLight Controls system** by way of the nTUNE (Hyperlink "nTune") device, which requires **power over ethernet (PoE).** Because of this, the LSIX Tunable White White fixture **requires an nLight PoE device, such as the** nPS80 EZ **or the** nPP16D EFP in order for the nTUNE device to be functional.

CONSTRUCTION — Built on a direct lit platform, the Lithonia SIX was designed for durability, depth and elegance. LSIX has a **nominal 6" wide housing with a 4" wide aperture,** available in 2FT, 4FT and 8FT discrete lengths. The bezeled frame option features a **0.6" regress** to provide physical depth. LSIX has a low-profile design to provide increased installation flexibility in restricted plenum spaces. The **.66mm thick back-plate** includes integral T-bar clips for **installation into 9/16" and 15/16" T-grid ceilings** with no additional components. In a 9/16" T-grid ceiling, the **bezel frame option allows the bottom of the luminaire to sit flush with tegular ceiling tiles.** Antimicrobial paint finish available.

Integrated Sensor (nLight® Wired Networking): This sensor is nLight-enabled, meaning it has the ability to communicate over an nLight network. When wired, using CAT-5 cabling, with other nLight-enabled sensors, power packs, or WallPods, an nLight control zone is created. Once linked to a Gateway, directly or via a Bridge, the zone becomes capable of remote status monitoring and control via SensorView software.

Mainstream Dynamic Tunable White with nTune Technology: Tunable white nTune™ is an all digital light color temperature control within an nLight enabled luminaire. This brings tunable white lighting control into the mainstream with repeatable, consistent results in an economical luminaire form and system already familiar to schools. Designers and facility operators are granted the freedom to tie scenes to specific activities or to complement colors or materials within a visual environment. nTune™ allows color temperature settings through the Productivity Range of 3000K-5000K and the Rhythm Range of 2700K to 6500K. Refer to the Programming User's Guide for instructions on customizing to your application with SensorView.

INSTALLATION — With a depth of only 2.1", LSIX makes for an easy installation, especially in restrictive plenum applications. LSIX fits into standard 15/16" and narrow 9/16" T-grid ceiling systems. Suitable for damp location.

ELECTRICAL — Long-life LED's, coupled with high-efficiency drivers provide superior quality of light and an extended service life. 80% LED lumen maintenance at 60,000 hours (L80/60,000). 0-10 volt dimming driver, dims to 1%.
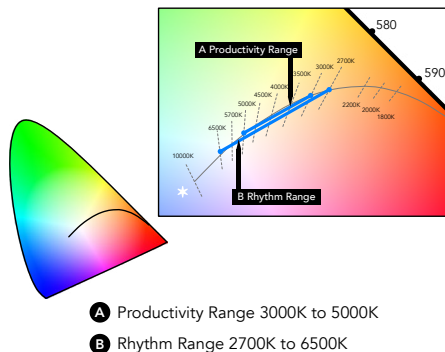
LISTINGS — CSA certified to meet US and Canadian standards. Damp location listed. IC rated. I**P5X rated. Tested in accordance with ISO 14644-14; suitable for ISO Class 5 -9 positive and negative pressure clean rooms. Rated for NSF/ANSI Standard 2 – Light Fixture for Splash Zone and Non Food Zone.**

WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice

Specifications

Length:	23.82 (60.5), 47.80 (121.41), 95.81 (243.36)
Width:	5.81 (14.76)
Depth:	3.64 (9.25)
Weight:	2FT: 4lbs 4FT: 6.25 lbs 8FT: 11.7lbs

All dimensions are inches (centimeters)

A+ CAPABLE   **nLIGHT**   **NSF®**   **ISO Class 5-9**   **IC RATED**   **IP RATED**   **CSA C US**

Embed nLight controls today. Prepare for tomorrow.

Now	**Tomorrow**
User-friendly install	Scalability
Enhanced energy savings	Space configuration
Code compliance	Future-ready

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency

- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a shaded background*

- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background*

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

Tunable White GPHD

- **Gamut:** One dimensional Warm-Cool
- **Path:** Direct 3000K to 5000K (Productivity Range) or 2700K to 6500K (Rhythm Range)
- **Handle:** Two Natural Language Handles: Intensity and CCT
- **Data:** nLight with nTune technology for both handles of control

A Productivity Range 3000K to 5000K
B Rhythm Range 2700K to 6500K

LSIXTW LED Luminaire

A+ Capable options indicated by this color background.

Series		Length		Dynamic Feature		Dynamic Range		Lumens		CRI		Frame Style	
LSIXTW	Lithonia Six Tunable White	2FT	2 Foot	TUWH	Tunable White	PROR	Productivity Range (3000K-5000K)	1000LM	1,000 Lumens	90CRI	90 CRI	FFR	Extruded Flat Frame
						RHYR	Rhythm Range (2700K-6500K)	1500LM	1,500 Lumens			BFR	Bezel Frame
								2000LM	2,000 Lumens				
								2500LM	2,500 Lumens				
		4FT	4 Foot					2000LM	2,000 Lumens				
								3000LM	3,000 Lumens				
								4000LM	4,000 Lumens				
		8FT	8 Foot					4000LM	4,000 Lumens				
								5000LM	5,000 Lumens				

Optics		Voltage		Emergency Option		Finish		Control	
SWL	Satin White	MVOLT	MVOLT, 120-277V	(blank)	No Emergency Option	MW	Matte White	NLT	nLight nTune interface ‡
		120	120V	E10WLCP	EM Self-Diagnostic battery pack, 10W Constant Power, Certified in CA Title 20 MAEDBS	MB	Matte Black	NLTEMG	nLight nTune Interface. For use with generator supply EM power.
		277	277V	GTD	Generator Transfer Device	DNA	Natural Aluminum		
						WH	Glossy White		

Sensor		Options	
(blank)	No sensor, Control Input function only	GLR	Fast-blowing fuse ‡
PIR	Occ sensing with passive infrared - on/off functionality	GMF	Slow-blowing fuse ‡
PDT	Occ sensor dual tech (passive infrared & michrophonics)	PWS1836	6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit
APIR	Occ sensing with passive infrared - on/off functionality and auto dimming photocell	PWS1846	6' pre-wire, 3/8" diameter, 18 gauge, 2 circuit
APDT	Occ sensor dual tech (passive infrared & michrophonics) and auto dimming photocell	RRL_	RELOC®-ready luminaire
		DWAM	Antimicrobial White
VPIR8	Vertex low-profile on/off occupancy PIR occupancy sensor at 8ft mounting height	CP	Chicago plenum ‡
		NPLT	Narrow Pallet

NOTE: ‡ indicates option value has ordering restrictions. Please reference the Option Value Ordering Restrictions chart that are directly below. Restriction notes are sorted in the sequence they appear in the order tree.

‡ Option Value Ordering Restrictions	
Option Value	**Restriction**
NLT	Requires power from nLight network bridge or nPS 80.
GLR, GMF	Must specify voltage, only available with 120 or 277.
CP	Not available with PWS1836, PWS1846.

LITHONIA LIGHTING®

Accessories

Accessories: *Order as separate catalog number.*	
DGA062	Drywall grid adapter for 6"x2FT recessed fixture
DGA064	Drywall grid adapter for 6"x4FT recessed fixture
DGA068	Drywall grid adapter for 6"x8FT recessed fixture
06x2SMKSHP PAF	6"X2' Surface Mount Troffer Kit [1]
06x4SMKSHP PAF	6"X4' Surface Mount Troffer Kit [1]
06x8SMKSHP PAF	6"X8' Surface Mount Troffer Kit [1]
RK8BDP 2P U	Disconnect Plug (BDP), 2 Pole, Package of 1
RK8BDP 3P U	Disconnect Plug (BDP), 3 Pole, Package of 1
RK8BDP 2P J10	Disconnect Plug (BDP), 2 Pole, Package of 10
RK8BDP 2P J40	Disconnect Plug (BDP), 2 Pole, Package of 40
DLTLATC J4	Earthquake Clip,1 set of 4
DLTLATC J40	Earthquake Clip,10 sets of 4
DLTLATC J80	Earthquake Clip,20 sets of 4

Notes:

1.   Cannot be installed with fixture with integrated NLTAIR2 Options.

Emergency Battery Estimated Lumens

Use the formula below to estimate the delivered lumens in emergency mode

Estimated Lumens = 1.25 x P x LPW

P = Output power of emergency driver (10W for E10WCP option.)

LPW = Lumen per watt rating of the luminaire.

UL924 Sequence of Operation

The below information applies to all nLight AIR devices with an EM option.

- EM devices will remain at their high-end trim and ignore wireless lighting control commands, unless a normal-power-sensed (NPS) broadcast is received at least every 8 seconds.
- Using the CL**AIR**ITY+ mobile app, EM devices must be associated with a group that includes a normal power sensing device to receive NPS broadcasts.
- Only non-emergency rPP20, rLSXR, rSBOR, rSDGR, and nLight AIR luminaires with version 3.4 or later firmware can provide normal power sensing for EM devices. See specification sheets for control devices and luminaires for more information on options that support normal power sensing.

Emergency Battery Pack Options - Field Installable

Battery Model Number	Wattage	Runtime (Minutes)	Lumen Output* @ 120 Lumens/Watt	Other
ILB CP07 2H A	7W	120	840	Storm Shelter / 2 Hour Runtime
ILB CP10 A	10W	90	1200	
ILBLP CP10 HE SD A	10W	90	1200	Title 20, Self Diagnostic
ILBLP CP15 HE SD A	15W	90	1800	Title 20, Self Diagnostic
ILB CP20 HE A	20W	90	2400	Title 20
ILB CP20 HE SD A	20W	90	2400	Title 20, Self Diagnostic

All the above are UL Listed products that are certified for field install external/remote to the fixture.

*Minimum delivered lumen output to assist in product selection for increased fixture mounting height.

The CP10 delivered emergency illumination outperforms legacy 1400 lumen fluorescent emergency ballast.

Please contact us at techsupport@iotaengineering.com for any Emergency Battery related questions.

Bezel Frame Integrated into 9/16" Tegular Ceiling for Minimized Grid Appearance
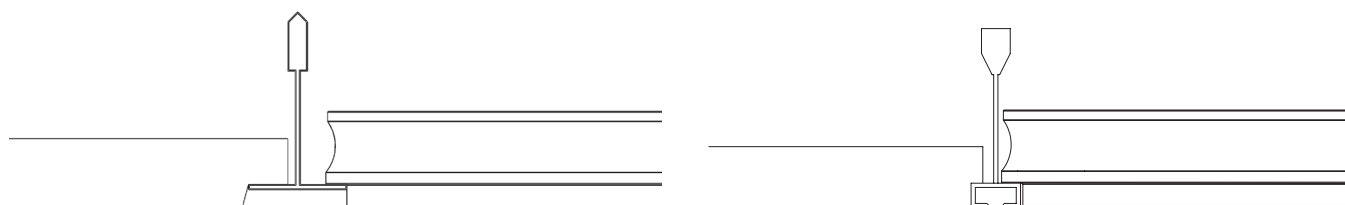
Bezel Frame Integrated into 15/16" Ceiling

nLight Platform

nLight Wired Networking

Tunable White Option (CAT5 wiring to nIO EZDL CCT & nPS 80)

nIO EZDL CCT

CAT5

LSIXTW

Series CAT5 Cable

nIO EZDL CCT will need to be connected to power supply via CAT-5 cable

NOTE: nPS 80 is sold seperate as an accessory

nPS 80

nLight Wired nPODMA

Simple as 1, 2, 3

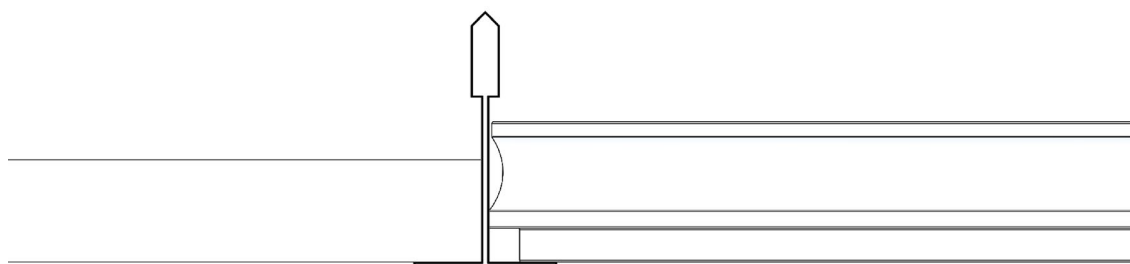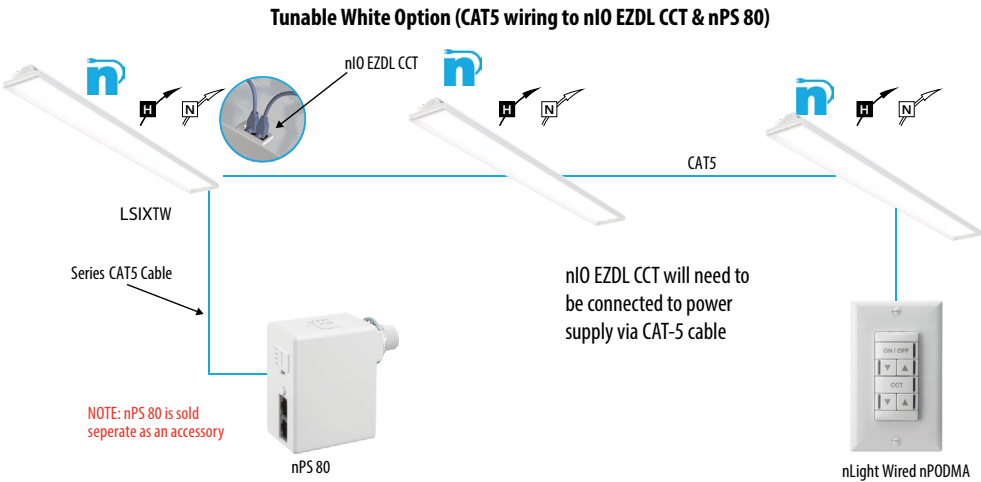1. Install the nLight® Wired fixtures with embedded control
2. Install the nLight Wired wall switch
3. Connect the fixtures using standard CAT5e cables and the devices will automatically discover each other and work (plug and play)

nLight embedded fixtures offer:	Customers get:
Manual Dimming	Convenience and visual comfort for occupants
Motion Sensing and/or Daylight Harvesting	Energy savings and code compliance
Fixture or Group Level Control	Ability to configure lighting to the space requirements
Flexibility	Ease of fixture moves, adds and changes
Wireless Wall Switch (nLight AIR Only)	Ease and flexibility of placement
Astronomical and Time of Day Scheduling	Energy savings and building security
Scalable Solution	nLight controls to grow with your business
Future-Ready	nLight platform to set foundation for future upgrades and capabilities

Controls Accessories

nLight® Wired Control Accessories:
Order as separate catalog number. Visit www.acuitybrands.com/products/controls/nlight.

WallPod stations	Model number	Occupancy sensors	Model number
On/Off	nPODMA [Color]	Small motion 360°, ceiling (PIR / dual tech)	nCM 9 RJB / nCM PDT 9 RJB
On/Off & raise/lower	nPODMA DX [Color]	Large motion 360°, ceiling (PIR / dual tech)	nCM10 RJB / nCM PDT 10 RJB
Graphic touchscreen	nPOD TOUCH [Color]	Wall switch with raise/lower	nWSX PDT LV DX [color]
Photocell controls	**Model number**	**Cat-5 cable (plenum rated)**	**Model number**
Full range dimming	nCM ADCX RJB	10' cable	CAT5 10FT J1
		30' cable	CAT5 30FT J1

Sensor Switch WSXA D

nLight WIRED NPOD UNITOUCH

nLight WIRED nPODMA DX

nLight AIR rPODBA

Dimensions
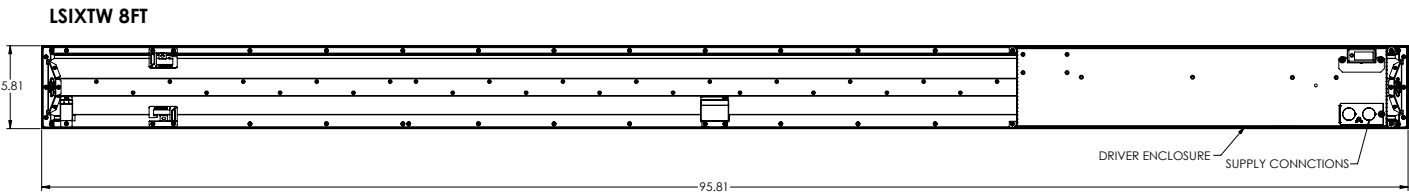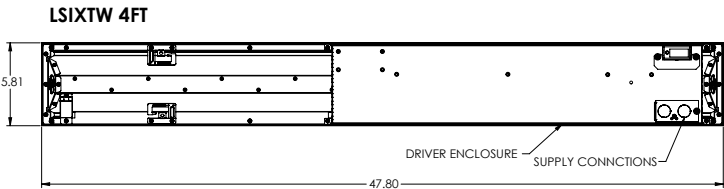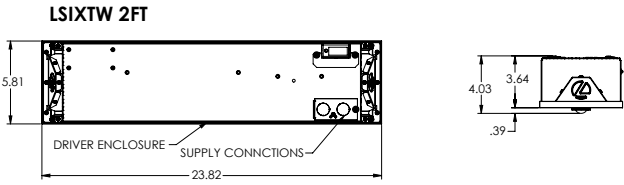
LSIXTW 2FT

5.81

DRIVER ENCLOSURE — SUPPLY CONNCTIONS
23.82

4.03 3.64
.39

LSIXTW 4FT

5.81

DRIVER ENCLOSURE — SUPPLY CONNCTIONS
47.80

LSIXTW 8FT

5.81

DRIVER ENCLOSURE — SUPPLY CONNCTIONS
95.81

LITHONIA LIGHTING®

Performance Data

2ft

Fixture Size	Lumen Package	(PROR) LUMEN OUTPUT PER SCALING PROCEDURE, PER CCT				
		3000K	3500K	4000K	4500K	5000K
2ft	1000LM	1070	1001	1067	1058	1050
	1500LM	1631	1527	1627	1614	1601
	2000LM	2117	1981	2111	2094	2077
	2500LM	2718	2543	2710	2689	2667

Fixture Size	Lumen Package	(PROR) POWER OUTPUT PER SCALING PROCEDURE, PER CCT				
		3000K	3500K	4000K	4500K	5000K
2ft	1000LM	11.6	10.1	10.5	10.4	10.5
	1500LM	17.4	15.1	15.8	15.6	15.8
	2000LM	23.7	20.6	21.5	21.3	21.5
	2500LM	31.3	27.2	28.3	28.1	28.4

Fixture Size	Lumen Package	(PROR) LPW OUTPUT PER SCALING PROCEDURE, PER CCT				
		3000K	3500K	4000K	4500K	5000K
2ft	1000LM	92	99	101	101	100
	1500LM	94	101	103	103	101
	2000LM	89	96	98	98	97
	2500LM	87	94	96	96	94

Fixture Size	Lumen Package	(RHYR) LUMEN OUTPUT PER SCALING PROCEDURE, PER CCT						
		2700K	3000K	3500K	4000K	4500K	5000K	5700K	6500K
2ft	1000LM	1115	1103	1093	1074	1119	1133	1165	1189
	1500LM	1647	1631	1615	1587	1654	1675	1721	1757
	2000LM	2132	2111	2091	2055	2141	2168	2228	2275
	2500LM	2689	2662	2637	2592	2701	2734	2810	2869

Fixture Size	Lumen Package	(RHYR) POWER OUTPUT PER SCALING PROCEDURE, PER CCT						
		2700K	3000K	3500K	4000K	4500K	5000K	5700K	6500K
2ft	1000LM	12.6	11.9	11.2	10.6	41.8	10.9	11.2	11.5
	1500LM	18.6	17.6	16.5	15.7	15.9	16.1	15.5	17.0
	2000LM	25.1	23.7	22.3	21.2	21.5	21.8	22.3	23.0
	2500LM	32.2	30.5	28.6	27.2	27.6	27.9	28.7	29.5

Fixture Size	Lumen Package	(RHYR) LPW OUTPUT PER SCALING PROCEDURE, PER CCT						
		2700K	3000K	3500K	4000K	4500K	5000K	5700K	6500K
2ft	1000LM	89	93	98	101	27	104	104	103
	1500LM	89	93	98	101	104	104	111	103
	2000LM	85	89	94	97	100	100	100	99
	2500LM	83	87	92	95	98	98	98	97

4FT

Fixture Size	Lumen Package	(PROR) LUMEN OUTPUT PER SCALING PROCEDURE, PER CCT				
		3000K	3500K	4000K	4500K	5000K
4FT	2000LM	2303	2179	2143	2055	2038
	3000LM	3300	3123	3071	2945	2920
	4000LM	4444	4206	4135	3965	3965

Fixture Size	Lumen Package	(PROR) POWER OUTPUT PER SCALING PROCEDURE, PER CCT				
		3000K	3500K	4000K	4500K	5000K
4FT	2000LM	23.5	2035.0	19.0	18.9	19.6
	3000LM	34.2	29.7	27.7	27.6	28.5
	4000LM	48.8	42.3	39.6	39.4	40.7

Fixture Size	Lumen Package	(PROR) LPW OUTPUT PER SCALING PROCEDURE, PER CCT				
		3000K	3500K	4000K	4500K	5000K
4FT	2000LM	98	1	113	109	104
	3000LM	96	105	111	107	102
	4000LM	91	99	104	101	97

Fixture Size	Lumen Package	(RHYR) LUMEN OUTPUT PER SCALING PROCEDURE, PER CCT						
		2700K	3000K	3500K	4000K	4500K	5000K	5700K	6500K
4FT	2000LM	2189	2221	2268	2312	2331	2387	2366	2396
	3000LM	3342	3390	3462	3529	3558	3643	3612	3656
	4000LM	4415	4479	4573	4662	4700	4813	4772	4830

Fixture Size	Lumen Package	(RHYR) POWER OUTPUT PER SCALING PROCEDURE, PER CCT						
		2700K	3000K	3500K	4000K	4500K	5000K	5700K	6500K
4FT	2000LM	23.4	22.3	21.2	20.8	20.7	20.6	21.2	21.5
	3000LM	36.9	35.1	33.4	32.8	32.6	32.5	33.5	34.0
	4000LM	51.4	49.0	46.6	45.7	45.5	45.4	46.8	47.4

Fixture Size	Lumen Package	(RHYR) LPW OUTPUT PER SCALING PROCEDURE, PER CCT						
		2700K	3000K	3500K	4000K	4500K	5000K	5700K	6500K
4FT	2000LM	94	100	107	111	113	116	111	111
	3000LM	91	96	104	108	109	112	108	108
	4000LM	86	91	98	102	103	106	102	102

8FT

Fixture Size	Lumen Package	(PROR) LUMEN OUTPUT PER SCALING PROCEDURE, PER CCT				
		3000K	3500K	4000K	4500K	5000K
8FT	4000LM	5096	4813	4725	4492	4507
	5000LM	6218	5872	5765	5481	5499

Fixture Size	Lumen Package	(PROR) POWER OUTPUT PER SCALING PROCEDURE, PER CCT				
		3000K	3500K	4000K	4500K	5000K
8FT	4000LM	43.9	38.7	36.8	35.4	36.3
	5000LM	54.2	47.7	45.4	43.6	44.7

Fixture Size	Lumen Package	(PROR) LPW OUTPUT PER SCALING PROCEDURE, PER CCT				
		3000K	3500K	4000K	4500K	5000K
8FT	4000LM	116	125	128	127	124
	5000LM	115	123	127	126	123

Fixture Size	Lumen Package	(RHYR) LUMEN OUTPUT PER SCALING PROCEDURE, PER CCT						
		2700K	3000K	3500K	4000K	4500K	5000K	5700K	6500K
8FT	4000LM	4361	4344	4417	4496	4498	4490	4638	4713
	5000LM	5431	5410	5500	5599	5601	5592	5776	5869

Fixture Size	Lumen Package	(RHYR) POWER OUTPUT PER SCALING PROCEDURE, PER CCT						
		2700K	3000K	3500K	4000K	4500K	5000K	5700K	6500K
8FT	4000LM	45.5	43.1	41.3	40.8	40.3	40.1	41.4	42.4
	5000LM	55.0	52.8	52.1	51.5	51.5	51.2	52.9	54.1

Fixture Size	Lumen Package	(RHYR) LPW OUTPUT PER SCALING PROCEDURE, PER CCT						
		2700K	3000K	3500K	4000K	4500K	5000K	5700K	6500K
8FT	4000LM	96	101	107	110	112	112	112	111
	5000LM	99	102	106	109	109	109	109	108