



6 watt LED pendant assembly (pp. 78-145)

Power Consumption:	6 watts
Color Temperature:	3000K
Lumens:	282 net lumens
Lumens/Watt:	48 lms/watt
Color Rendering Index:	85 CRI
Rated Average Life:	>30,000 hours to 70%
Center Beam Candle Power:	500
Dimming:	10% with low-voltage electronic and magnetic dimmer

Fusion Jack LED Onyx Cylinder Pendants |
Fusion Jack 4" Round Flush Canopies



— 50 pendant options

— Aluminum heat sink stays with pendant to minimize waste

— Field-replaceable LED lamp module

NOTE: We are constantly looking to improve our LED performance. Therefore, be sure to visit www.lblighting.com for the most updated LED product information.

6 watt LED swing track head assembly (p. 148)

Power Consumption:	6 watts
Color Temperature:	3000K
Lumens:	270 net lumens
Lumens/Watt:	45 lms/watt
Color Rendering Index:	85 CRI
Rated Average Life:	>30,000 hours to 70%
Center Beam Candle Power:	25° - 1200 40° - 500
Dimming:	10% with low-voltage electronic and magnetic dimmer



Below is the ordering matrix for the Swing LED Head.

model	finish	beam spread	length	lamp	mount
HD503	BZ	25	03	LED	MRL
		25 25° 40 40°		LED Module 6w	

Result: **HD503SC06LEDMRL**

10 watt LED wall sconce fixtures some highlights from our offering (pp. 160-191)



cato
(p.165)



derby
(p.169)



hollywood beach
(p.163)



zip
(p.164)

Power Consumption:	10 watts	10 watts	10 watts	10 watts
Color Temperature:	3000K	3000K	3000K	3000K
Bare Lumens:	600 lumens	600 lumens	600 lumens	600 lumens
Lumens/Watt:	60 lms/watt	60 lms/watt	60 lms/watt	60 lms/watt
Color Rendering Index:	80 CRI	80 CRI	80 CRI	80 CRI
Rated Average Life:	>50,000 hours to 70%	>50,000 hours to 70%	>50,000 hours to 70%	>50,000 hours to 70%
Dimming:	10% with low-voltage electronic dimmer	10% with low-voltage electronic dimmer	10% with low-voltage electronic dimmer	10% with low-voltage electronic dimmer

NOTE: We are constantly looking to improve our LED performance. Therefore, be sure to visit www.lbllighting.com for the most updated LED product information.

Ordering an LBL System with LED Elements

Ordering an LBL low-voltage system with LED heads and pendants is easy. All of the hardware components are identical to our other low-voltage systems with the exception of the transformer. Simply specify an LED Illuminated Monorail*, Fusion Jack, Monorail, 2-Circuit Monorail or Wall Monorail system, and choose one of the LED-compatible transformers found below.

*When specifying LED Illuminated Monorail, remember to order the MR2 version of the pendant or head.

If you have any questions about designing a system with LED elements, please contact our technical support group at (847) 626-6300.

compatible LED transformers

All of our magnetic transformers will work with our LED heads and pendants. Only the electronic transformers in this chart will work with our LED elements (heads and pendants).

ITEM #	DESCRIPTION	COMPATIBLE 6W ELEMENTS		COMPATIBLE DIMMER	PAGE NO.
		MIN.	MAX. ²		
REMOTE TRANSFORMERS					
TRANS-RMTE-75M	75w mag	1	12	l.v. mag, 600 watts	p. 294
TRANS-RMTE-75M/277	75w mag	1	12	l.v. mag, 600 watts	p. 294
TRANS-RMTE-150M	150w mag	1	25	l.v. mag, 600 watts	p. 294
TRANS-RMTE-150M/277	150w mag	1	25	l.v. mag, 600 watts	p. 294
TRANS-RMTE-300M	300w mag	1	50	l.v. mag, 600 watts	p. 294
TRANS-RMTE-300M/277	300w mag	1	50	l.v. mag, 600 watts	p. 294
MONORAIL SURFACE TRANSFORMERS					
TRANS-SFE60-(BZ,SC)	60w elec flush ¹	2	10	l.v. elec, 600 watts	p. 296
TRANS-SFE60-(BZ,SC)/277	60w elec flush ¹	2	10	l.v. elec, 600 watts	p. 296
TRANS-SFE61-(BZ,SC)	60w elec surface	2	10	l.v. elec, 600 watts	p. 296
TRANS-SFE61-(BZ,SC)/277	60w elec surface	2	10	l.v. elec, 600 watts	p. 296
TRANS-SFE100-(BZ,SC)	100w elec surface	5	16	l.v. elec, 600 watts	p. 296
TRANS-SFE100-(BZ,SC)/277	100w elec surface	5	16	l.v. elec, 600 watts	p. 296
TRANS-SFM75-(BZ,SC)	75w mag surface	1	12	l.v. mag, 600 watts	p. 296
TRANS-SFM75-(BZ,SC)/277	75w mag surface	1	12	l.v. mag, 600 watts	p. 296
TRANS-SFM150-(BZ,SC)	150w mag surface	1	25	l.v. mag, 600 watts	p. 296
TRANS-SFM300-(BZ,SC)	300w mag surface	1	50	l.v. mag, 600 watts	p. 296
TRANS-SFM300-(BZ,SC)/277	300w mag surface	1	50	l.v. mag, 600 watts	p. 296
MONORAIL DIRECT FEED SURFACE TRANSFORMERS					
TRANSDIR-SFE60(BZ,SC)	60w elec flush direct fd ¹	2	10	l.v. elec, 600 watts	p. 297
TRANSDIR-SFE60(BZ,SC)/277	60w elec flush direct fd ¹	2	10	l.v. elec, 600 watts	p. 297
TRANSDIR-SFE61(BZ,SC)	60w elec surface direct fd	2	10	l.v. elec, 600 watts	p. 297
TRANSDIR-SFE61(BZ,SC)/277	60w elec surface direct fd	2	10	l.v. elec, 600 watts	p. 297
TRANSDIR-SFE100(BZ,SC)	100w elec surface direct fd	5	16	l.v. elec, 600 watts	p. 297
TRANSDIR-SFE100(BZ,SC)/277	100w elec surface direct fd	5	16	l.v. elec, 600 watts	p. 297
TRANSDIR-SFM75(BZ,SC)	75w mag surface direct fd	1	12	l.v. mag, 600 watts	p. 297
TRANSDIR-SFM75(BZ,SC)/277	75w mag surface direct fd	1	12	l.v. mag, 600 watts	p. 297
TRANSDIR-SFM150(BZ,SC)	150w mag surface direct fd	1	25	l.v. mag, 600 watts	p. 297
TRANSDIR-SFM300(BZ,SC)	300w mag surface direct fd	1	50	l.v. mag, 600 watts	p. 297
TRANSDIR-SFM300(BZ,SC)/277	300w mag surface direct fd	1	50	l.v. mag, 600 watts	p. 297
2-CIRCUIT MONORAIL REMOTE TRANSFORMERS					
TRANS-RMTE-150M-2	150w mag	2	25	l.v. mag, 600 watts	p. 297
TRANS-RMTE-300M-2	300w mag	2	50	l.v. mag, 600 watts	p. 297
TRANS-RMTE-600M-2	600w mag	2	100	l.v. mag, 600 watts	p. 297
TRANS-RMTE-600M-2/277	600w mag	2	100	l.v. mag, 600 watts	p. 297
2-CIRCUIT MONORAIL SURFACE TRANSFORMERS					
TRANS-SFM-500M-2(BZ, SC)	500w mag	2	82	l.v. mag, 600 watts	p. 297
TRANSDIR-SFM500M(BZ, SC)-2	500w mag Direct Feed	2	82	l.v. mag, 600 watts	p. 297
LED ILLUMINATED MONORAIL SURFACE TRANSFORMERS					
TRANS-SFE60-(BZ,SC)-LED	60w elec flush ¹	2	10	l.v. elec, 600 watts	p. 316
TRANS-SFE60-(BZ,SC)-LED/277	60w elec flush ¹	2	10	l.v. elec, 600 watts	p. 316
TRANS-SFE61-(BZ,SC)-LED	60w elec surface	2	10	l.v. elec, 600 watts	p. 316

¹Transformer fits inside standard 4" square junction box with round plaster ring.

²Maximum recommended length is 100' for Monorail with a single LED compatible transformer.

compatible LED transformers continued

ITEM #	DESCRIPTION	COMPATIBLE 6W ELEMENTS MIN. MAX. ²		COMPATIBLE DIMMER	PAGE NO.
LED ILLUMINATED MONORAIL SURFACE TRANSFORMERS (CONTINUED)					
TRANS-SFE61-(BZ,SC)-LED/277	60w elec surface	2	10	I.v. elec, 600 watts	p. 316
TRANS-SFE100-(BZ,SC)-LED	100w elec surface	5	16	I.v. elec, 600 watts	p. 316
TRANS-SFE100-(BZ,SC)-LED/277	100w elec surface	5	16	I.v. elec, 600 watts	p. 316
TRANS-SFM75-(BZ,SC)-LED	75w mag surface	1	12	I.v. mag, 600 watts	p. 316
TRANS-SFM75-(BZ,SC)-LED/277	75w mag surface	1	12	I.v. mag, 600 watts	p. 316
TRANS-SFM150-(BZ,SC)-LED	150w mag surface	1	25	I.v. mag, 600 watts	p. 316
TRANS-SFM300-(BZ,SC)-LED	300w mag surface	1	50	I.v. mag, 600 watts	p. 316
TRANS-SFM300-(BZ,SC)-LED/277	300w mag surface	1	50	I.v. mag, 600 watts	p. 316
LED ILLUMINATED MONORAIL DIRECT FEED SURFACE TRANSFORMERS					
TRANSDIRSF60(BZ,SC)-LED	60w elec flush direct fd ¹	2	10	I.v. elec, 600 watts	p. 317
TRANSDIRSF60(BZ,SC)-LED/277	60w elec flush direct fd ¹	2	10	I.v. elec, 600 watts	p. 317
TRANSDIRSF61(BZ,SC)-LED	60w elec surface direct fd	2	10	I.v. elec, 600 watts	p. 317
TRANSDIRSF61(BZ,SC)-LED/277	60w elec surface direct fd	2	10	I.v. elec, 600 watts	p. 317
TRANSDIRSF100(BZ,SC)-LED	100w elec surface direct fd	5	16	I.v. elec, 600 watts	p. 317
TRANS-SFM75-(BZ,SC)/277	100w elec surface direct fd	5	16	I.v. elec, 600 watts	p. 317
TRANSDIRSF75(BZ,SC)-LED	75w mag surface direct fd	1	12	I.v. mag, 600 watts	p. 317
TRANSDIRSF75(BZ,SC)-LED/277	75w mag surface direct fd	1	12	I.v. mag, 600 watts	p. 317
TRANSDIRSF150(BZ,SC)-LED	150w mag surface direct fd	1	25	I.v. mag, 600 watts	p. 317
TRANSDIRSF300(BZ,SC)-LED	300w mag surface direct fd	1	50	I.v. mag, 600 watts	p. 317
TRANSDIRSF300(BZ,SC)-LED/277	300w mag surface direct fd	1	50	I.v. mag, 600 watts	p. 317
FUSION JACK CANOPIES					
CK0011-FJ-(BZ,PC,SC)-LED	4 Round Flush Canopy ¹	1	1	I.v. elec, 600 watts	p. 282
CK0011-FJ-(BZ,PC,SC)-LED/277	4 Round Flush Canopy ¹	1	1	I.v. elec, 600 watts	p. 282
CK0011-FJ2-(BZ,SC)-LED	2.75 Round Canopy ³	1	1	I.v. elec, 600 watts	p. 282
CK0011-FJ2-(BZ,SC)-LED/277	2.75 Round Canopy ³	1	1	I.v. elec, 600 watts	p. 282
CK001B-FJ-(BZ,PC,SC)-LED	Surface Canopy	1	1	I.v. elec, 600 watts	p. 282
CK001B-FJ-(BZ,PC,SC)-LED/277	Surface Canopy	1	1	I.v. elec, 600 watts	p. 282
CK004S-FJ-(BZ,GL,SC)-LED	4-Port Square Canopy	4	4	I.v. elec, 600 watts	p. 285
CK004S-FJ-(BZ,GL,SC)-LED/277	4-Port Square Canopy	4	4	I.v. elec, 600 watts	p. 285
CK003R-FJ-(BZ,GL,SC)-LED	3-Port Linear Canopy	3	3	I.v. elec, 600 watts	p. 285
CK003R-FJ-(BZ,GL,SC)-LED/277	3-Port Linear Canopy	3	3	I.v. elec, 600 watts	p. 285
CK003B-FJ-(BZ,GL,SC)-LED	3-Port Linear Canopy	3	3	I.v. elec, 600 watts	p. 285
CK003B-FJ-(BZ, GL,SC)	3-Port Linear Canopy	3	3	I.v. elec, 600 watts	p. 285
CK005B-FJ-(BZ,GL,SC)-LED	5-Port Round Canopy	5	5	I.v. elec, 600 watts	p. 285
CK005B-FJ-(BZ,GL,SC)-LED/277	5-Port Round Canopy	5	5	I.v. elec, 600 watts	p. 285
CK007B-FJ-(BZ,GL,SC)-LED	7-Port Round Canopy	7	7	I.v. elec, 600 watts	p. 285
CK007B-FJ-(BZ,GL,SC)-LED/277	7-Port Round Canopy	7	7	I.v. elec, 600 watts	p. 285
CK007RD-FJ-(MA, WA) (SC,BZ)-LED	7-Port Round Canopy	7	7	I.v. elec, 600 watts	p. 285
CK0011BD-FJ-(MA, WA) (SC,BZ)-LED	11-Port Round Canopy	11	11	I.v. elec, 600 watts	p. 285
CK001A-FJ-(BZ,PC,SC,WH)-LED	Recessed Can Adapter	1	1	I.v. elec, 600 watts	p. 284
3TRH009-FJ-(BL, W)-LED	Low-Voltage FSJ Track Adapter	1	1	I.v. elec, 600 watts	p. 284
3TRJ009-FJ-(BL, W)-LED	Low-Voltage FSJ Track Adapter	1	1	I.v. elec, 600 watts	p. 284

¹Transformer fits inside standard 4" square junction box with round plaster ring.

² Maximum recommended length is 100' for Monorail with a single LED compatible transformer.

³ Transformer fits inside special 2" square junction box (included.)

Lamp Selection Guide

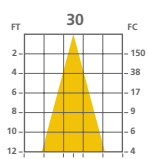
12 Volt incandescent lamps											
12 Volt Xenox Bi-pin											
	H410XCL	G4 12v 10w Xenon CL	12	10	G4	na	2800	100	na	125	10,000
	H420XCL	G4 12v 20w Xenon CL	12	20	G4	na	2800	100	na	250	10,000
	H435XCL	GY6.35 12v 35w Xenon CL	12	35	GY6.35	na	2900	100	na	525	10,000
	H435XFR	GY6.35 12v 35w Xenon FR	12	35	GY6.35	na	2900	100	na	525	10,000
	H450	GY6.35 12v 50w Xenon CL	12	50	GY6.35	na	2900	100	na	750	10,000
	H450XFR	GY6.35 12v 50w Xenon FR	12	50	GY6.35	na	2900	100	na	750	10,000
12 Volt Halogen Bi-pin											
	H410XCL	GY6.35 12v 35w Halogen CL	12	35	GY6.35	na	3000	100	na	600	2,000
12 Volt MR11											
	H849M-C	MR11 12v 10w 18° CG	12	10	GU4	18°	3000	100	420	na	2,000
	H850M-C	MR11 12v 20w FTD 30° CG	12	20	GU4	30°	3000	100	700	na	3,000
	H851M-C	MR11 12v 35w FTH 30° CG	12	35	GU4	30°	3000	100	1,500	na	3,000
12 Volt MR16											
	H860N-C	MR16 12v 20w ESX 12° CG	12	20	GU5.3	12°	3000	100	4,100	na	3,000
	H860W-C	MR16 12v 20w BAB 36° CG	12	20	GU5.3	36°	3000	100	700	na	3,000
	H863M-C	MR16 12v 35w FRA 24° CG	12	35	GU5.3	24°	3000	100	3,500	na	3,000
	H863W-C	MR16 12v 35w FMW 40° CG	12	35	GU5.3	36°	3000	100	1,250	na	3,000
	H870N-C	MR16 12v 50w EXT 12° CG	12	50	GU5.3	12°	3000	100	10,000	na	3,000
	H870M-C	MR16 12v 50w EXZ 24° CG	12	50	GU5.3	24°	3000	100	4,400	na	3,000
	H870W-C	MR16 12v 50w EXN 36° CG	12	50	GU5.3	36°	3000	100	1,700	na	3,000
	H880N-C	MR16 12v 75w EYF 14° CG	12	75	GU5.3	14°	3000	100	15,000	na	3,000
	H880W-C	MR16 12v 75w EYC 38° CG	12	75	GU5.3	38°	3000	100	2,950	na	3,000
12 Volt MR16 Constant CRI											
	H860N-C/CC	MR16 12v 20w ESX 12°CG/CC	12	20	GU5.3	12°	3000	100	5,000	na	5,000
	H860W-C/CC	MR16 12v 20w BAB 36°CG/CC	12	20	GU5.3	36°	3000	100	900	na	5,000
	H863M-C/CC	MR16 12v 35w FRA 24°CG/CC	12	35	GU5.3	24°	3000	100	4,400	na	5,000
	H863W-C/CC	MR16 12v 35w FMW 36°CG/CC	12	35	GU5.3	36°	3000	100	1,600	na	5,000
	H870N-C/CC	MR16 12v 50w EXT 12°CG/CC	12	50	GU5.3	12°	3000	100	13,000	na	5,000
	H870M-C/CC	MR16 12v 50w EXZ 24°CG/CC	12	50	GU5.3	24°	3000	100	5,600	na	5,000
	H870W-C/CC	MR16 12v 50w EXN 38°CG/CC	12	50	GU5.3	38°	3000	100	2,200	na	5,000
12 Volt MR16 Ultra 10,000 Hour Long Life											
	H870N-C/CC/ULTRA	MR16 12v 50w EXT12° CG/LL	12	50	GU5.3	12°	2900	100	10,000	na	10,000
	H870M-C/CC/ULTRA	MR16 12v 50w EXZ24° CG/LL	12	50	GU5.3	24°	2900	100	4,400	na	10,000
	H870W-C/CC/ULTRA	MR16 12v 50w EXN38° CG/LL	12	50	GU5.3	36°	2900	100	1,700	na	10,000
12 Volt MR16 Black and Silver Back											
	H863W-C/B/CC	MR16 12v 35w FMW36°CG/BLK	12	35	GU5.3	36°	2900	100	1,250	na	5,000
	H870M-C/B/CC	MR16 12v 50w EXZ24°CG/BLK	12	50	GU5.3	24°	2900	100	4,400	na	5,000
	H870W-C/B/CC	MR16 12v 50w EXN38°CG/BLK	12	50	GU5.3	36°	2900	100	1,700	na	5,000
	H863W-C/S/CC	MR16 12v 35w FMW36°CG/SIL	12	35	GU5.3	36°	2900	100	1,250	na	5,000
	H870M-C/S/CC	MR16 12v 50w EXZ24°CG/SIL	12	50	GU5.3	24°	2900	100	4,400	na	5,000
	H870W-C/S/CC	MR16 12v 50w EXN38°CG/SIL	12	50	GU5.3	36°	2900	100	1,700	na	5,000
12 Volt MR16 Frosted											
	H860-FR-C/CC	MR16 12v 20w CG/FROST	12	20	GU5.3	na	3000	100	na	250	3,000
	H863-FR-C/CC	MR16 12v 35w CG/FROST	12	35	GU5.3	na	3000	100	na	820	3,000
	H870-FR-C/CC	MR16 12v 50w CG/FROST	12	50	GU5.3	na	3000	100	na	850	3,000
12 Volt MR16 LED											
	H895M-LED/3000K	LED MR16 12v 6w 25° 3000K	12	6	GU5.3	25°	na	na	na	na	30,000
	H895M-LED/5000K	LED MR16 12v 6w 25° 5000K	12	6	GU5.3	25°	na	na	na	na	30,000
	H895M-LED/AMBER	LED MR16 12v 5w 25° Amber	12	5	GU5.3	25°	na	na	na	na	30,000
	H895M-LED/BLUE	LED MR16 12v 5w 25° Blue	12	5	GU5.3	25°	na	na	na	na	30,000
	H895M-LED/GREEN	LED MR16 12v 5w 25° Green	12	5	GU5.3	25°	na	na	na	na	30,000
	H895M-LED/RED	LED MR16 12v 5w 25° Red	12	5	GU5.3	25°	na	na	na	na	30,000
12 Volt AR111											
	AR11150FL25	AR111 12v 50w FLOOD 24°	120	50	Push Screw	24°	3000	100	4,000	na	3,000
24 Volt Incandescent Lamps											
24 Volt Xenon Bi-pin											
	H410XCL/24V	G4 24v 10w Xenon CL	24	10	G4	na	2800	100	na	125	10,000
	H420/24V	G4 24v 20w Xenon CL	24	20	G4	na	2800	100	na	250	10,000
	H435X/24V	GY6.35 24v 35w Xenon CL	24	35	GY6.35	na	2900	100	na	550	5,000
	H450X/24V	GY6.35 24v 50w Xenon CL	24	50	GY6.35	na	2900	100	na	750	5,000
24 Volt Halogen Bi-pin											
	H335CL/24V	GY6.35 24v 35w Halogen CL	24	35	GY6.35	na	3000	100	na	600	2,000

Lamp Selection Guide

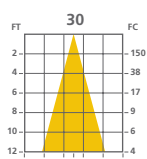
	Product No.	Description	Volts	Watts	Base Type	Beam Spread	Color Temp (K)	CRI	Center Beam Candlepower	Initial Lumens	Avg. Rated Life
24 Volt Incandescent Lamps											
24 Volt MR11											
	H850M-C/24V	MR11 24v 20w FTD 30° CG	24	20	GU4	30°	3000	100	700	na	3,000
	H851M-C/24V	MR11 24v 35w FTH 30° CG	24	35	GU4	30°	3000	100	850	na	3,000
24 Volt MR16											
	H863W/24V	MR16 24v 35w FMW 36° CG	24	35	GU5.3	36°	3000	100	1,250	na	3,000
	H870W/24V	MR16 24v 50w EXN 38° CG	24	50	GU5.3	38°	3000	100	1,700	na	3,000
120 Volt Incandescent Lamps											
120 Volt Halogen BT15											
	H200	E26 120v 60w BT15 Halogen WH	120	60	E26	na	2800	100	na	760	3,000
120 Volt Incandescent A19											
	H101	E26 120v 60w A19 Incandescent WH	120	60	E26	na	2700	100	na	805	1,000
	H102	E26 120v 75w A19 Incandescent WH	120	75	E26	na	2700	100	na	1190	750
	H103	E26 120v 100w A19 Incandescent WH	120	100	E26	na	2700	100	na	1710	750
120 Volt Incandescent Classic Edison Style A-Lamp											
	H100	E26 120v 60w Classic Edison A19 CL	120	60	E26	na	2700	100	na	500	2,500
120 Volt Incandescent Classic Edison Style T9											
	H104	E26 120v 30w Classic Edison T9 CL	120	30	E26	na	2700	100	na	500	3,000
120 Volt Incandescent G40											
	H150	E26 120v 150w G40 Incandescent WH	120	150	E26	na	2700	100	na	1770	2,500
	H151	E26 120v 60w G40 Incandescent Half-Chrome	120	60	E26	na	2700	100	na	565	1,500
120 Volt Halogen G9											
	H904	G9 120v 40w Halogen FR	120	40	G9	na	2900	100	na	480	2,000
120 Volt Mini-Candelebra Krypton and Halogen											
	H910	E11 120v 40w Krypton CL	120	40	E11	na	2800	100	na	560	2,000
	H915	E11 120v 60w Krypton CL	120	60	E11	na	2800	100	na	960	2,000
	H680	E11 130v 75w Halogen CL	130	75	E11	na	2900	100	na	1050	2,000
	H685	E11 130v 100w Halogen CL	130	100	E11	na	2900	100	na	1500	2,000
	H690	E11 130v 150w Halogen CL	130	150	E11	na	2900	100	na	2500	2,000
	H695	E11 130v 250w Halogen CL	130	250	E11	na	3000	100	na	5000	2,000
120 Volt Double Ended Halogen											
	H704	R7s 130v 100w 78mm Hal CL	130	100	R7s	na	2900	100	na	1650	2,000
	H706	R7s 130v100w 118mm Hal CL	130	100	R7s	na	2900	100	na	1650	2,000
120 Volt Linestra Lamps											
	L060	S14S 120v 60w Linestra WH	120	60	S14S	na	2850	100	na	460	1,000
	L150	S14S 120v 150w Linestra WH	120	150	S14S	na	2850	100	na	930	1,000
Fluorescent											
Compact Fluorescent 4-pin Quad Tube (for use with electronic ballasts)											
	PL13Q-4P	CFL G24q-1 Quad 13w 2700K		13	G24q-1	na	2700	82	na	900	10,000
	PL18Q-4P	CFL G24q-2 Quad 18w 2700K		18	G24q-2	na	2700	82	na	1250	10,000
	PL26Q-4P	CFL G24q-3 Quad 26w 2700K		26	G24q-3	na	2700	82	na	1825	10,000
Compact Fluorescent 4-pin Triple Tube (for use with electronic ballasts)											
	PL13TBX	CFL GX24q-1 Trp 13w 2700K		13	Gx24q-1	na	2700	82	na	900	10,000
	PL18TBX	CFL GX24q-2 Trp 18w 2700K		18	Gx24q-2	na	2700	82	na	1200	10,000
	PL26TBX	CFL GX24q-3 Trp 26w 2700K		24	Gx24q-3	na	2700	82	na	1800	10,000
	PL32TBX	CFL GX24q-3 Trp 32w 2700K		32	Gx24q-3	na	2700	82	na	2400	10,000
	PL42TBX	CFL GX24q-4 Trp 42w 3000K		42	Gx24q-4	na	3000	82	na	3200	10,000
Compact Fluorescent 4-pin Twin Tube (for use with electronic ballasts)											
	PL13-4P	CFL 2GX7 Twin 13w 2700K		13	2GX7	na	3000	82	na	800	10,000
	PL24BX	CFL 2G11 Twin 24w 3000K		24	2G11	na	3000	82	na	1800	10,000
	PL39BX	CFL 2G11 Twin 36w 3000K		36	2G11	na	3000	82	na	2900	12,000
Compact Fluorescent 120 Volt GU24 Self-Ballasted											
	GU24/18	CFL Self-Ballasted GU24 Spiral 18w 2700K	120	18	GU24	na	2700	82	na	1200	10,000
	GU24/27	CFL Self-Ballasted GU24 Spiral 27w 2700K	120	27	GU24	na	2700	82	na	1800	10,000
	GU24/32	CFL Self-Ballasted GU24 Spiral 32w 2700K	120	32	GU24	na	2700	82	na	2100	10,000
Compact Fluorescent 120 Volt E26 Plumen Self-Ballasted											
	FB100	CFL Self-Ballasted E26 Plumen 11w 2700K	120	11	E26	na	2700	82	na	630	8,000
Linear Fluorescent											
	FL14T5	Fluorescent T5 14w 3000K	14		Mini Bi-Pin	na	3000	82	na	1350	20,000
	FL24T5HO	Fluorescent T5HO 24w 3000K	24		Mini Bi-Pin	na	3000	82	na	2000	20,000
High Intensity Discharge											
Metal Halide											
	50MH	E26 50w Metal Halide CL		50	E26 HID	na	na	na	na	3400	10,000
	70MH	E26 70w Metal Halide CL		70	E26 HID	na	na	na	na	5500	10,000

Selected Lamp Photometrics

12 Volt MR11

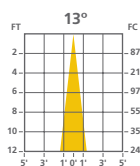


20w 30°
H850M-C
FTD

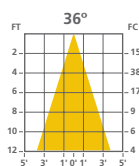


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FTH

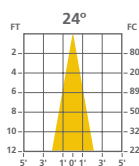
12 Volt MR16



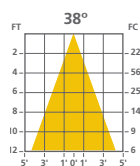
20w 12°
H860N-C
FTD



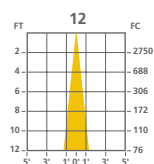
20w 36°
H860W-C
BAB



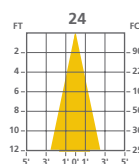
35w 24°
H863M-C
FMV



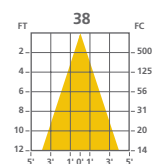
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H863W-C
FMW



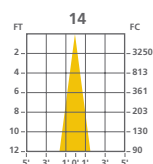
50w 12°
H870N-C
EXT



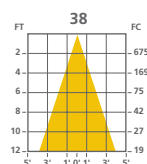
50w 24°
H870M-C
EXZ



50w 36°
H870W-C
EXN



75w 14°
H880N-C
EYF



75w 38°
H880W-C
EYC

Transformers

Low-voltage lighting systems use transformers to step down and isolate standard line-voltages

(e.g. 120VAC and 277VAC, etc) to safe-to-touch low-voltages such as 12VAC.

There are two categories of transformer styles to choose from: **remote** or **surface mount** transformers.

Remote Transformers are installed at a distance from the lighting system. This allows the transformer to be placed out of view from the aesthetically pleasing lighting system. Since remote transformers are placed at some considerable distance from the lighting system, the installer must be aware of voltage drop. The best approach for achieving optimum lamp voltage at the transformer output is to observe the wiring instructions accompanied with our remote multi-tap transformers in conjunction with the appropriate wire gauge specified in our voltage drop table.

In general, to obtain a minimum voltage drop of 3% from the output of the remote transformer to the power feed canopy, please use the appropriate wire gauge specified in our voltage drop table (below).

Low-Voltage Wire Size Table

Use to determine the correct THHN wire size for a recommended 3 percent drop in voltage at the specified wattage. The length shown is the length of wire from the transformer to the power feed.

12 VOLT	5 ft.	6-15 ft.	6-20 ft.	21-40 ft.	41-60 ft.	61-90 ft.
150 watt	#12 GA	#8 GA	#6 GA	#4 GA	#2 GA	#1 GA
300 watt	#10 GA	#6 GA	#4 GA	#1 GA	1/0	3/0
24 VOLT	5 ft.	6-15 ft.	6-20 ft.	21-40 ft.	41-60 ft.	61-90 ft.
300 watt	#14 GA	#12 GA	#10 GA	#6 GA	#6 GA	#4GA
600 watt	#12 GA	#8 GA	#6 GA	#4 GA	#2 GA	#1 GA

Surface Mount Transformers are installed close to the lighting system usually to a junction box in a ceiling. Since surface mount transformers are visible, we have designed our surface mount transformers to aesthetically complement our lighting systems. Surface mount transformers will not experience voltage drop issues to the degree and severity of remote transformers and hence do not have or need boost taps.

Transformers can further be broken down into two types: **magnetic** or **electronic transformers**.

Magnetic Transformers operate at standard low frequencies (50/60 Hz). They offer very reliable operation and are very durable. Since magnetic transformers operate at low frequencies, they experience much less voltage drop over a long distance compared to high frequency electronic transformers.

Electronic Transformers are very compact and much smaller than their magnetic counterparts. They provide built in protection against electrical shorts applied at the outputs and to the lighting system. In order for electronic transformers to operate properly, the output must be loaded to a minimum of 50% of the rated wattage of the transformer. Any output load below 50% may result in lamps flickering and lamps burning out prematurely. Since electronic transformers operate at much higher frequencies, most standard volt and amp meters intended for 60hz type measurements cannot be used to accurately measure the outputs of these transformers. Consult a qualified electrician for assistance.

Electronic transformers may cause interference with appliances such as TVs and radios. If interference is a problem, a line filter may be installed either at the transformer or at the appliance input. Another option is to use a magnetic transformer, which operates at a lower frequency and will not cause any interference.

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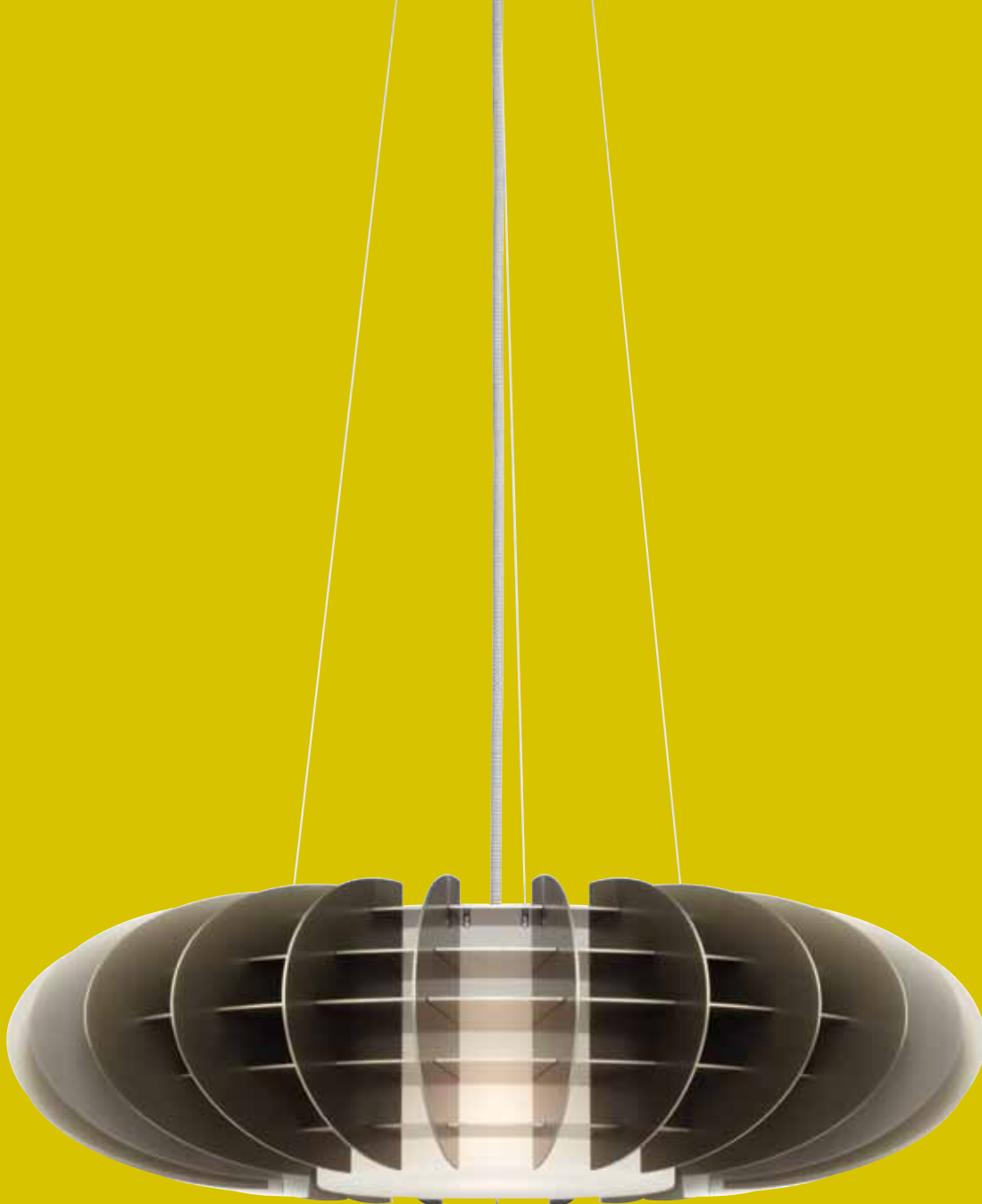
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