

SAE Systems

P-I-9800 & LS-P-I-9800

Pendant-Mounted Indirect

Product Description

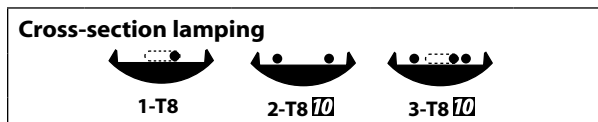
Graceful arcuate-shaped housing provides glare-free indirect lighting. UL listed. Cradle to Cradle Certified.^{CM}

Ordering Guide

| Product, lamping, & length | | | | | | Options | | | | | |
|--|---------------|--------|---------------|--------------------|-----------|--|---|---------------|------------|--|------------|
| P - | I - | 98 | 2 | 4 | T8 - | TCWM - | ELB10 | TW - | 2CWQ - | ECSS - | 120 |
| Mounting | Distribution | Series | Lamp Count | Nominal Length(ft) | Lamp Type | Finish | Ballast | Tandem Wiring | Pre-wiring | Other Options | Volts |
| P Pendant-mounted LS-P LiteSpeed Pendant-mounted | I Indirect | 98 | 1, 2, 3, 4 → | 4 | T8 | TCWM (textured matte white) is standard see LiteColors™ in product guide for other finishes | ELB10 is standard DA/MK7 DL/ECO DO/HEL LPD/CS/e see Ballast Options | -- → | 1CWQ | EF ECSS F HPR see Other Options | 120 277 |
| | | | 2, 4, 6, 8 → | 8 | | | | TW → | 2CWQ | | |
| | | | 3, 6, 9, 12 → | 12 | | | | see notes | | | |
| Mounting Options - add to end of catalog number Aircraft cables <input type="checkbox"/> FAI/ACC (field adjustable) <input checked="" type="checkbox"/> standard Stems <input type="checkbox"/> P6S (stem) <input type="checkbox"/> SC/P6 (sloped ceiling) <input type="checkbox"/> EQ/P6 (earthquake) | | | | | | notes: Lamp count = the total number of lamps in fixture Tandem-wiring not available for one-lamp cross-section fixtures For ordering guide information in shaded areas, choose selection by reading ACROSS the shaded areas for correct specifications. | | | | | |

P-I-9824T8-TCWM-ELB10-TW-2CWQ-F-120-FAI/ACC is a typical catalog number for a 2-lamp (2 lamps in cross-section), 4-foot long T8 fixture with textured matte white finish, electronic ballast, tandem-wired, pre-wired with two-circuit branch wiring and quick-connects, fuse, 120 volts, mounted with field adjustable aircraft cables.

10 DAY LiteSpeed Quick-Ship
 Many configurations of this fixture are available in our Litespeed 10-day quick-ship program. The "10-day" icon in the descriptions below shows which options are available in Litespeed. Litespeed orders are shipped within 10 working days of receipt of a released, cleared order. An "LS" prefix is required in front of the ordering number to have the order handled as Litespeed. Other configurations not indicated here may be available for 10-day shipment; contact Customer Service for availability. Some restrictions may apply to large orders. All Litespeed fixtures are supplied in textured white finish (TCWM).



Ballast Options

Specify in place of **ELB10**, contact factory for availability/compatibility with lamping:
DA/MK7 Advance Mark VII dimming ballast
DL/ECO Lutron ECO-10 dimming ballast
DO/HEL Osram Sylvania dimming ballast

To have the fixture enabled for Lutron EcoSystem compatibility:

LPD/CS/e EcoSystem low-profile dimming electronic ballasts installed at the factory, along with all required internal EcoSystem wiring. For other configurations of the Lutron EcoSystem components, including custom device connection feeds to enable connection to ceiling-mounted sensors and control devices, consult litecontrol.com/cs or contact the factory.

Tandem Wiring & Circuiting Options

1CWQ Fixture is wired with a single-circuit so that all lamps are switched together.

TW-2CWQ Fixtures wired with two circuits. 2-lamp in cross section fixtures, the fixture is wired such that the inline lamps are switched separately. 3-lamp in cross section fixtures, the fixture is wired such that the inline center lamps are switched separately from the inline outer lamps.

Other Options

- EF** Emergency Fluorescent Ballast. Battery-powered ballast from a UL Listed manufacturer will operate one T8 lamp for 1 1/2 hours.
- ECSS** End Cap Shelf-Style. Die-cast shelf-style end caps with no exposed fasteners.
- F** Fuse. Slow or fast blow, determined by Litecontrol.
- HPR** High Performance Reflector. Die-formed, specular anodized aluminum.

Questions to Ask

1. Row information, including desired fixture lengths? 2. Lamp type?
3. White, Litecolor, or special color? 4. Ballast options? 5. Tandem wiring?
6. Controls solutions? 7. Other options? 8. 120 or 277 volt? 9. Cables or stems, what length?

Click on
Quick Find 98

litecontrol.com

Specifications

HOUSING. Die-formed and welded steel. End caps are of 14-gauge steel, with no holes or knockouts, finished to match housing.

END CAPS. End caps are 14-gauge steel with no holes or knockouts, finished to match housing. Two fasteners on each end cap allow tight attachment to ends of fixtures without removing reflector. End caps are required at each end of row and on both ends of an individual fixture.

REFLECTOR. Die-formed steel with high-reflectance white finish is standard. A high-performance, die-formed specular aluminum reflector (**HPR**) is available as an option.

BALLAST. Electronic Ballast (**ELB**), high power factor, thermally protected Class P, Sound Rated A, less than 10% THD, manufactured by a UL Listed manufacturer, as available, determined by Litecontrol. Ballasts with a voltage range of 120 to 277 will be used when fixture configuration and ballast availability allow. The minimum number of ballasts will be used.

LAMPING. Available in one-, two-, three-, and four-lamp T8 cross-sections. In one-lamp and three-lamp configurations, center lamp is diagonally positioned along length to clear suspension hardware at fixture ends, and provides symmetrical light distribution.


TANDEM WIRING. When selected from Ordering guide below, fixtures wired to switch in-line lamps separately, providing two (two- and four-lamp cross-section fixtures only) or three (three-lamp cross-section fixtures only) levels of light.

PRE-WIRING. Fixtures are supplied with #12 AWG type THHN wire for branch circuits. One end will have factory installed push-in quick-connects. The other end will be stripped back 1/2" for quick connection in field. For fixtures to accommodate special circuits such as night light and emergency, etc., in-field wiring will be required. See Pre-wiring Information for details.

SUSPENSION. Aircraft cable or rigid stem pendants attach to fixture using Litecontrol's easy-hang system, with one attachment plate for use at any support point. Mounting points in rows are "on module" at exact 48" 96", and 144" spacings. See Planning for Installation for details.

ROW JOINING. Litecontrol's at-joint flat strap supporting two fixtures allows simple fixture joining and installation. Support points are centered above the midpoint of joint "on seam" for aligned, symmetrical appearance. Fixture end headers are threaded in two locations to allow easy row joining without removing reflectors. Standard suspension provided is field adjustable aircraft cable (**FAI/ACC**) with a 51" length cable. See Aircraft Cables and Stems for details.

SYSTEM CONNECTORS. Corners, tees, and crosses available. Die-formed 20-gauge steel, same profile as the housing, smooth with no exposed fasteners or knockouts. Each system connector shall have a rigid cross-member with a .687" diameter stem hole at center to accept any of Litecontrol's pendant assemblies.

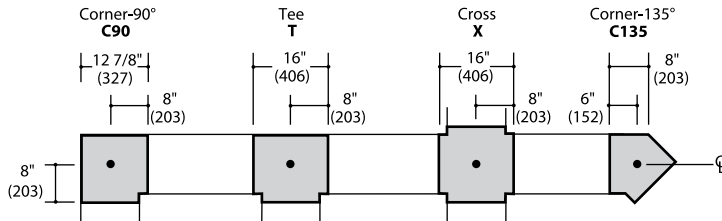
CERTIFICATION. Fixture and electrical components shall be UL and/or CUL Listed and shall bear the I.B.E.W., A.F. of L. label.  This fixture is Cradle to Cradle Certified^{CM} Silver by MBDC.
 Note: Litecontrol reserves the right to change specifications without notice for product development and improvement.

System connectors

Catalog Number

| Series | Connector | Finish |
|----------|-----------|--------|
| P-I-9800 | C90 | |
| P-I-9800 | C135 | |
| P-I-9800 | T | |
| P-I-9800 | X | |

P-I-9800-C90-TCWM is a typical catalog number for a 90° corner connector finished Textured Matte White.



Planning for installation

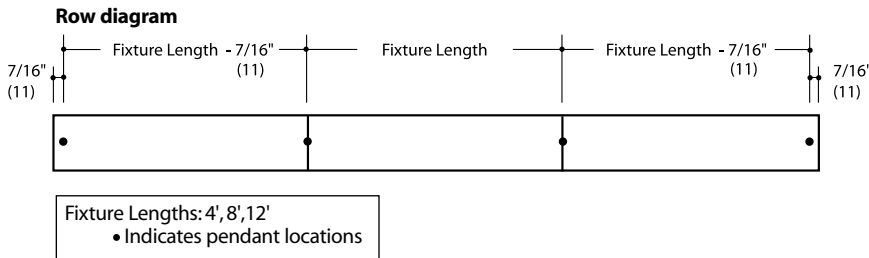
Provided with P6S (5/8" dia., 3/8" NPT) stems, or 3/32" diameter aircraft cable assemblies. Stems with 0-45° swivel joints are available. Aircraft cable is provided at fixed lengths (with 1/4-20 stud adjustment for leveling purposes), or may be ordered with "field-adjustable" fittings that allow unlimited vertical positioning and adjustment. See Stems & Aircraft Cables sheet for further details.

Stem lengths

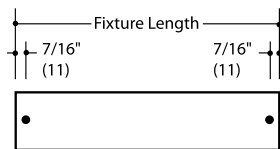
P6S stems are available in eight standard lengths from 6" to 36" (nominal). The actual ceiling-to-top-of-fixture dimensions are: 5", 8", 11", 14", 17", 23", 27", and 35". Refer to Standard Length Stem Assemblies sheet for dimensional information on sloped ceiling (SC/P6) and earthquake (EQ/P6) stem assemblies.

Suspension mounting locations

Pendant locations at ends of rows or individual fixtures are 7/16" from fixture end. Pendant locations for in-row joints are at the joint.

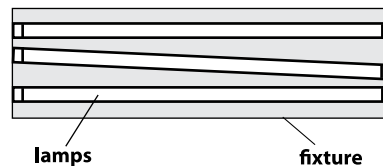


Individual fixture



Top view: 1-lamp and 3-lamp T8 lamp position

Center lamp is inserted *diagonally* on 1-lamp and 3-lamp T8 fixtures



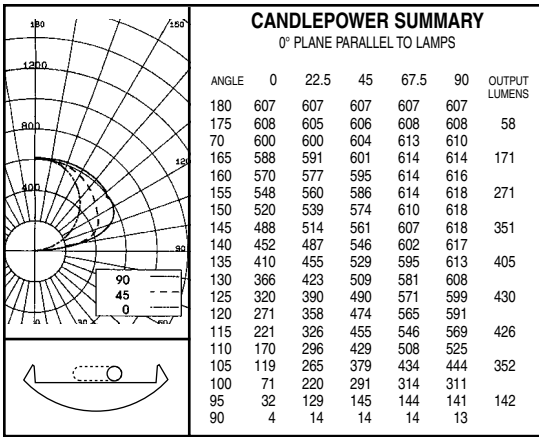
LITECONTROL

100 Hawks Avenue Hanson, MA 02341
 781 294 0100 f: 781 293 2849 litecontrol.com



Photometric data standard reflector

SAE P-I-9800 & LS-P-I-9800



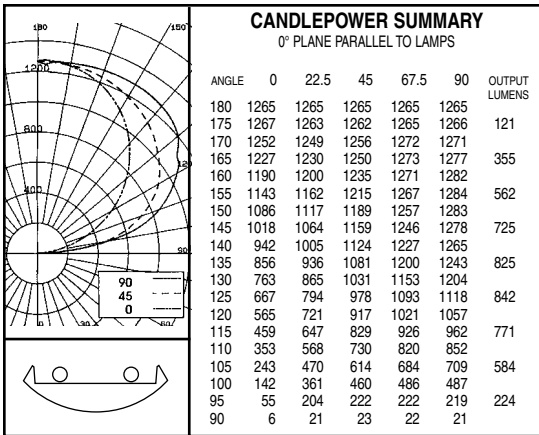
P-I-9814T8 89.7 % Efficiency
Litecontrol Certified Test Report # 25711001

| RCC RW | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | | | | 0 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR 0 | .85 | .85 | .85 | .85 | .73 | .73 | .73 | .73 | .50 | .50 | .50 | .29 | .29 | .29 | .09 | .09 | .09 | .09 | .09 | .09 | .00 |
| 1 | .78 | .74 | .71 | .68 | .66 | .63 | .61 | .58 | .43 | .42 | .40 | .25 | .24 | .23 | .08 | .08 | .08 | .08 | .08 | .08 | .00 |
| 2 | .70 | .64 | .59 | .55 | .60 | .55 | .51 | .48 | .38 | .35 | .33 | .22 | .21 | .19 | .07 | .07 | .06 | .06 | .06 | .06 | .00 |
| 3 | .64 | .57 | .51 | .46 | .55 | .49 | .44 | .40 | .33 | .30 | .28 | .19 | .18 | .17 | .06 | .06 | .05 | .05 | .05 | .05 | .00 |
| 4 | .59 | .50 | .43 | .39 | .50 | .43 | .37 | .33 | .29 | .26 | .24 | .17 | .15 | .14 | .05 | .05 | .05 | .05 | .05 | .05 | .00 |
| 5 | .54 | .43 | .37 | .33 | .46 | .38 | .32 | .28 | .26 | .23 | .20 | .15 | .13 | .12 | .05 | .04 | .04 | .04 | .04 | .04 | .00 |
| 6 | .49 | .39 | .33 | .28 | .42 | .34 | .28 | .24 | .23 | .20 | .17 | .14 | .12 | .10 | .04 | .04 | .03 | .03 | .03 | .03 | .00 |
| 7 | .45 | .35 | .29 | .24 | .38 | .30 | .25 | .21 | .21 | .17 | .15 | .12 | .10 | .09 | .04 | .03 | .03 | .03 | .03 | .03 | .00 |
| 8 | .42 | .32 | .25 | .21 | .35 | .27 | .22 | .18 | .19 | .15 | .13 | .11 | .09 | .08 | .03 | .03 | .03 | .03 | .03 | .03 | .00 |
| 9 | .38 | .28 | .22 | .18 | .33 | .24 | .19 | .16 | .17 | .14 | .11 | .10 | .08 | .07 | .03 | .03 | .02 | .02 | .02 | .02 | .00 |
| 10 | .36 | .26 | .20 | .16 | .30 | .22 | .17 | .14 | .16 | .12 | .10 | .09 | .07 | .06 | .03 | .02 | .02 | .02 | .02 | .02 | .00 |

Floor Cavity Reflectance 20

ZONAL LUMEN SUMMARY

| ZONE | LUMENS | % LAMP | % LUMINAIRE |
|---------|--------|--------|-------------|
| 180-90° | 2600 | 89.69 | 100 |
| 90-0° | 0 | .00 | 0 |
| 180-0° | 2600 | 89.69 | 100 |



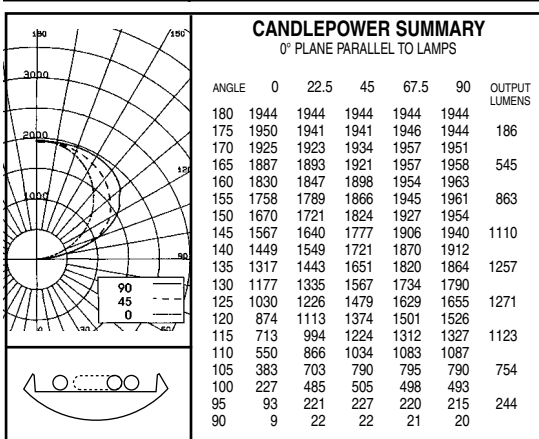
P-I-9824T8 86.3 % Efficiency
Litecontrol Certified Test Report # 25721001

| RCC RW | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | | | | 0 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR 0 | .82 | .82 | .82 | .82 | .70 | .70 | .70 | .70 | .48 | .48 | .48 | .28 | .28 | .28 | .09 | .09 | .09 | .09 | .09 | .09 | .00 |
| 1 | .75 | .71 | .68 | .65 | .64 | .61 | .58 | .55 | .42 | .40 | .39 | .24 | .23 | .23 | .08 | .08 | .07 | .07 | .07 | .07 | .00 |
| 2 | .68 | .62 | .57 | .53 | .58 | .53 | .49 | .46 | .36 | .34 | .32 | .21 | .20 | .19 | .07 | .06 | .06 | .06 | .06 | .06 | .00 |
| 3 | .62 | .55 | .49 | .44 | .53 | .47 | .42 | .38 | .32 | .29 | .27 | .19 | .17 | .16 | .06 | .06 | .05 | .05 | .05 | .05 | .00 |
| 4 | .56 | .48 | .42 | .37 | .48 | .41 | .36 | .32 | .28 | .25 | .23 | .16 | .15 | .13 | .05 | .05 | .04 | .04 | .04 | .04 | .00 |
| 5 | .52 | .42 | .36 | .31 | .44 | .36 | .31 | .27 | .25 | .22 | .19 | .15 | .13 | .11 | .05 | .04 | .04 | .04 | .04 | .04 | .00 |
| 6 | .47 | .38 | .31 | .27 | .40 | .32 | .27 | .23 | .22 | .19 | .17 | .13 | .11 | .10 | .04 | .04 | .03 | .03 | .03 | .03 | .00 |
| 7 | .43 | .34 | .27 | .23 | .37 | .29 | .24 | .20 | .20 | .17 | .14 | .12 | .10 | .08 | .04 | .03 | .03 | .03 | .03 | .03 | .00 |
| 8 | .40 | .30 | .24 | .20 | .34 | .26 | .21 | .17 | .18 | .15 | .12 | .11 | .09 | .07 | .03 | .03 | .02 | .02 | .02 | .02 | .00 |
| 9 | .37 | .27 | .21 | .17 | .31 | .24 | .19 | .15 | .16 | .13 | .11 | .09 | .08 | .06 | .03 | .03 | .02 | .02 | .02 | .02 | .00 |
| 10 | .34 | .25 | .19 | .15 | .29 | .21 | .17 | .13 | .15 | .12 | .09 | .09 | .07 | .06 | .03 | .02 | .02 | .02 | .02 | .02 | .00 |

Floor Cavity Reflectance 20

ZONAL LUMEN SUMMARY

| ZONE | LUMENS | % LAMP | % LUMINAIRE |
|---------|--------|--------|-------------|
| 180-90° | 5002 | 86.26 | 100 |
| 90-0° | 0 | .00 | 0 |
| 180-0° | 5002 | 86.26 | 100 |



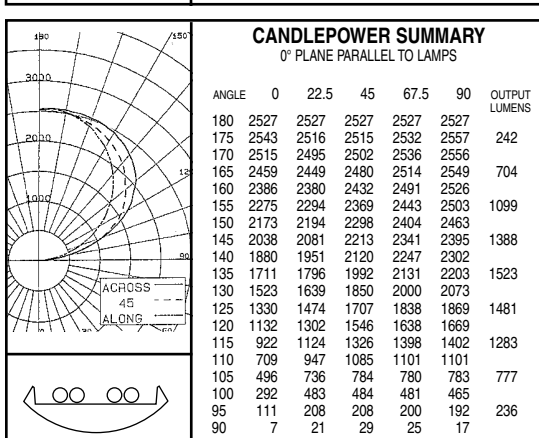
P-I-9834T8 84.5 % Efficiency
Litecontrol Certified Test Report # 25731001

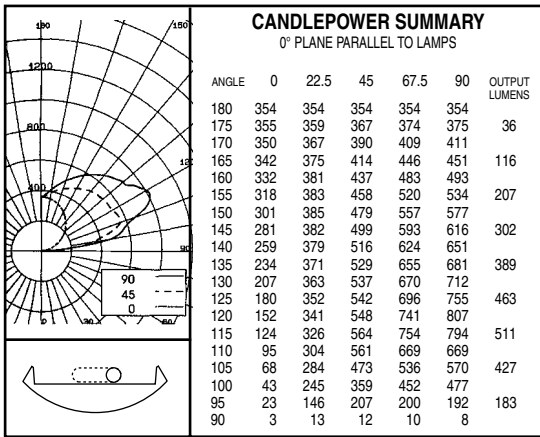
| RCC RW | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | | | | 0 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR 0 | .80 | .80 | .80 | .80 | .69 | .69 | .69 | .69 | .47 | .47 | .47 | .27 | .27 | .27 | .09 | .09 | .09 | .09 | .09 | .09 | .00 |
| 1 | .73 | .70 | .67 | .64 | .62 | .60 | .57 | .54 | .41 | .39 | .38 | .23 | .23 | .22 | .08 | .07 | .07 | .07 | .07 | .07 | .00 |
| 2 | .66 | .61 | .56 | .52 | .57 | .52 | .48 | .45 | .36 | .33 | .31 | .21 | .19 | .18 | .07 | .06 | .06 | .06 | .06 | .06 | .00 |
| 3 | .61 | .53 | .48 | .43 | .52 | .46 | .41 | .38 | .31 | .29 | .26 | .18 | .17 | .16 | .06 | .05 | .05 | .05 | .05 | .05 | .00 |
| 4 | .55 | .47 | .41 | .36 | .47 | .40 | .35 | .32 | .28 | .25 | .22 | .16 | .14 | .13 | .05 | .05 | .04 | .04 | .04 | .04 | .00 |
| 5 | .51 | .41 | .35 | .31 | .43 | .36 | .31 | .27 | .25 | .21 | .19 | .14 | .12 | .11 | .05 | .04 | .04 | .04 | .04 | .04 | .00 |
| 6 | .46 | .37 | .31 | .26 | .39 | .32 | .27 | .23 | .22 | .19 | .16 | .13 | .11 | .10 | .04 | .04 | .03 | .03 | .03 | .03 | .00 |
| 7 | .43 | .33 | .27 | .23 | .36 | .28 | .23 | .20 | .20 | .16 | .14 | .11 | .10 | .08 | .04 | .03 | .03 | .03 | .03 | .03 | .00 |
| 8 | .39 | .30 | .24 | .20 | .33 | .26 | .21 | .17 | .18 | .14 | .12 | .10 | .09 | .07 | .03 | .03 | .02 | .02 | .02 | .02 | .00 |
| 9 | .36 | .27 | .21 | .17 | .31 | .23 | .18 | .15 | .16 | .13 | .11 | .09 | .08 | .06 | .03 | .02 | .02 | .02 | .02 | .02 | .00 |
| 10 | .34 | .24 | .19 | .15 | .29 | .21 | .16 | .13 | .15 | .11 | .09 | .09 | .07 | .06 | .03 | .02 | .02 | .02 | .02 | .02 | .00 |

Floor Cavity Reflectance 20

ZONAL LUMEN SUMMARY

| ZONE | LUMENS | % LAMP | % LUMINAIRE |
|---------|--------|--------|-------------|
| 180-90° | 7347 | 84.45 | 100 |
| 90-0° | 0 | .00 | 0 |
| 180-0° | 7347 | 84.45 | 100 |





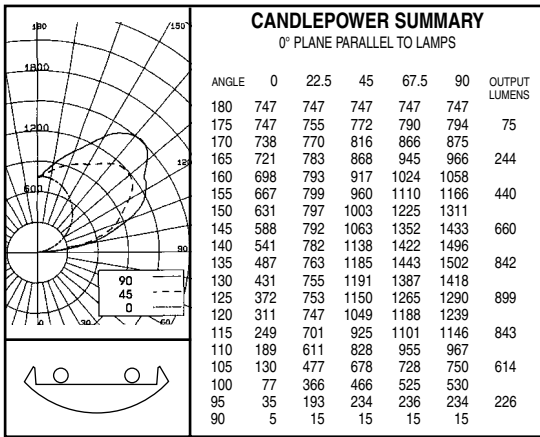
P-I-9814T8-HPR 90.7 % Efficiency
Litecontrol Certified Test Report # 25711000

| RCC | 80 | | | 70 | | | 50 | | | 30 | | | 10 | | | 0 | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | | |
| RW | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| RCR | 0 | .86 | .86 | .86 | .86 | .74 | .74 | .74 | .50 | .50 | .50 | .29 | .29 | .29 | .09 | .09 | .09 | .00 |
| 1 | .79 | .75 | .72 | .69 | .67 | .64 | .61 | .58 | .44 | .42 | .41 | .25 | .24 | .24 | .08 | .08 | .08 | .00 |
| 2 | .71 | .65 | .60 | .56 | .61 | .56 | .52 | .48 | .38 | .36 | .34 | .22 | .21 | .20 | .07 | .07 | .06 | .00 |
| 3 | .65 | .57 | .51 | .47 | .55 | .49 | .44 | .40 | .34 | .31 | .28 | .20 | .18 | .17 | .06 | .06 | .05 | .00 |
| 4 | .59 | .50 | .44 | .39 | .50 | .43 | .38 | .34 | .30 | .26 | .24 | .17 | .16 | .14 | .06 | .05 | .05 | .00 |
| 5 | .54 | .44 | .38 | .33 | .46 | .38 | .33 | .29 | .26 | .23 | .20 | .15 | .13 | .12 | .05 | .04 | .04 | .00 |
| 6 | .50 | .40 | .33 | .28 | .42 | .34 | .29 | .25 | .24 | .20 | .17 | .14 | .12 | .10 | .04 | .04 | .03 | .00 |
| 7 | .46 | .35 | .29 | .24 | .39 | .30 | .25 | .21 | .21 | .18 | .15 | .12 | .10 | .09 | .04 | .03 | .03 | .00 |
| 8 | .42 | .32 | .25 | .21 | .36 | .27 | .22 | .18 | .19 | .16 | .13 | .11 | .09 | .08 | .04 | .03 | .03 | .00 |
| 9 | .39 | .29 | .22 | .18 | .33 | .25 | .20 | .16 | .17 | .14 | .11 | .10 | .08 | .07 | .03 | .03 | .02 | .00 |
| 10 | .36 | .26 | .20 | .16 | .31 | .22 | .18 | .14 | .16 | .12 | .10 | .09 | .07 | .06 | .03 | .02 | .02 | .00 |

Floor Cavity Reflectance 20

ZONAL LUMEN SUMMARY

| ZONE | LUMENS | % LAMP | % LUMINAIRE |
|---------|--------|--------|-------------|
| 180-90° | 2630 | 90.70 | 100 |
| 90-0° | 0 | .00 | 0 |
| 180-0° | 2630 | 90.70 | 100 |



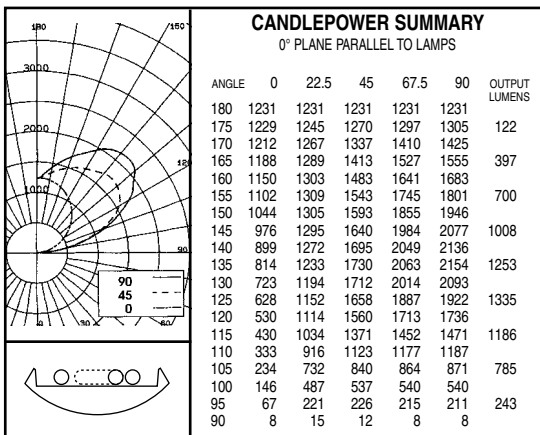
P-I-9824T8-HPR 83.4 % Efficiency
Litecontrol Certified Test Report # 25721000

| RCC | 80 | | | 70 | | | 50 | | | 30 | | | 10 | | | 0 | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | | |
| RW | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| RCR | 0 | .79 | .79 | .79 | .68 | .68 | .68 | .68 | .46 | .46 | .46 | .27 | .27 | .27 | .09 | .09 | .09 | .00 |
| 1 | .72 | .69 | .66 | .63 | .62 | .59 | .57 | .54 | .40 | .39 | .38 | .23 | .23 | .22 | .07 | .07 | .07 | .00 |
| 2 | .66 | .60 | .55 | .51 | .56 | .51 | .47 | .44 | .35 | .33 | .31 | .20 | .19 | .18 | .07 | .06 | .06 | .00 |
| 3 | .60 | .53 | .47 | .43 | .51 | .45 | .41 | .37 | .31 | .28 | .26 | .18 | .17 | .15 | .06 | .05 | .05 | .00 |
| 4 | .55 | .46 | .40 | .36 | .46 | .40 | .35 | .31 | .27 | .24 | .22 | .16 | .14 | .13 | .05 | .05 | .04 | .00 |
| 5 | .50 | .40 | .35 | .30 | .42 | .35 | .30 | .26 | .24 | .21 | .19 | .14 | .12 | .11 | .05 | .04 | .04 | .00 |
| 6 | .46 | .37 | .30 | .26 | .39 | .31 | .26 | .23 | .22 | .18 | .16 | .13 | .11 | .10 | .04 | .04 | .03 | .00 |
| 7 | .42 | .33 | .27 | .22 | .36 | .28 | .23 | .19 | .19 | .16 | .14 | .11 | .10 | .08 | .04 | .03 | .03 | .00 |
| 8 | .39 | .29 | .23 | .19 | .33 | .25 | .20 | .17 | .17 | .14 | .12 | .10 | .08 | .07 | .03 | .03 | .02 | .00 |
| 9 | .36 | .26 | .21 | .17 | .30 | .23 | .18 | .15 | .16 | .13 | .10 | .09 | .08 | .06 | .03 | .02 | .02 | .00 |
| 10 | .33 | .24 | .19 | .15 | .28 | .21 | .16 | .13 | .14 | .11 | .09 | .08 | .07 | .06 | .03 | .02 | .02 | .00 |

Floor Cavity Reflectance 20

ZONAL LUMEN SUMMARY

| ZONE | LUMENS | % LAMP | % LUMINAIRE |
|---------|--------|--------|-------------|
| 180-90° | 4837 | 83.40 | 100 |
| 90-0° | 0 | .00 | 0 |
| 180-0° | 4837 | 83.40 | 100 |



P-I-9834T8-HPR 80.7 % Efficiency
Litecontrol Certified Test Report # 25731000

| RCC | 80 | | | 70 | | | 50 | | | 30 | | | 10 | | | 0 | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | | |
| RW | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| RCR | 0 | .77 | .77 | .77 | .66 | .66 | .66 | .66 | .45 | .45 | .45 | .26 | .26 | .26 | .08 | .08 | .08 | .00 |
| 1 | .70 | .67 | .64 | .61 | .60 | .57 | .55 | .52 | .39 | .38 | .36 | .22 | .22 | .21 | .07 | .07 | .07 | .00 |
| 2 | .63 | .58 | .53 | .50 | .54 | .50 | .46 | .43 | .34 | .32 | .30 | .20 | .18 | .18 | .06 | .06 | .06 | .00 |
| 3 | .58 | .51 | .46 | .41 | .49 | .44 | .39 | .36 | .30 | .27 | .25 | .17 | .16 | .15 | .06 | .05 | .05 | .00 |
| 4 | .53 | .45 | .39 | .35 | .45 | .39 | .34 | .30 | .26 | .23 | .21 | .15 | .14 | .13 | .05 | .05 | .04 | .00 |
| 5 | .48 | .39 | .34 | .29 | .41 | .34 | .29 | .26 | .23 | .20 | .18 | .14 | .12 | .11 | .04 | .04 | .04 | .00 |
| 6 | .44 | .35 | .29 | .25 | .38 | .30 | .25 | .22 | .21 | .18 | .16 | .12 | .10 | .09 | .04 | .03 | .03 | .00 |
| 7 | .41 | .32 | .26 | .22 | .35 | .27 | .22 | .19 | .19 | .16 | .13 | .11 | .09 | .08 | .04 | .03 | .03 | .00 |
| 8 | .37 | .28 | .23 | .19 | .32 | .24 | .20 | .16 | .17 | .14 | .12 | .10 | .08 | .07 | .03 | .03 | .02 | .00 |
| 9 | .35 | .26 | .20 | .16 | .29 | .22 | .17 | .14 | .15 | .12 | .10 | .09 | .07 | .06 | .03 | .02 | .02 | .00 |
| 10 | .32 | .23 | .18 | .14 | .27 | .20 | .16 | .13 | .14 | .11 | .09 | .08 | .06 | .05 | .03 | .02 | .02 | .00 |

Floor Cavity Reflectance 20

ZONAL LUMEN SUMMARY

| ZONE | LUMENS | % LAMP | % LUMINAIRE |
|---------|--------|--------|-------------|
| 180-90° | 7024 | 80.74 | 100 |
| 90-0° | 0 | .00 | 0 |
| 180-0° | 7024 | 80.74 | 100 |