



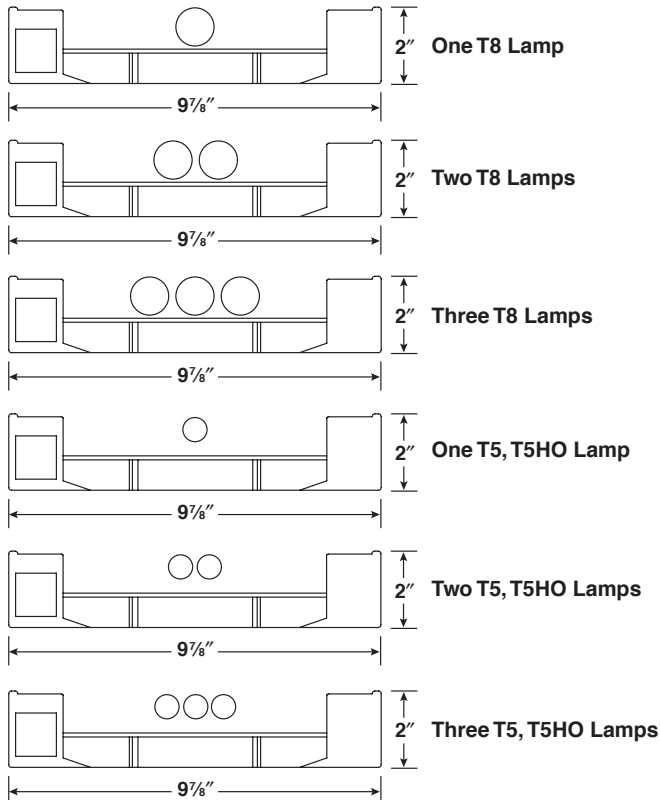
DIRECT/INDIRECT

[**PLANK**]

TYPE



CROSS SECTION



Project: _____

Location: _____

CONSTRUCTION

Plank is constructed of a heavy 20-gauge steel body with a 9 7/8" wide by 2" high profile in housing lengths of 4', 8', or 12' lengths. Fixtures are available with up to three T8, T5, or T5 HO lamps in cross section. An optional perforated pattern on either side of the shielding may be ordered (see ordering guide below). Modular mounting points maintain convenient, predictable locations. The exact shape of the housing is maintained by the use of a patented inner die cast plate at each fixture end (patent 6,796,676 B2) throughout the run to prevent snaking. The housing is designed to wrap around the plate and secures on top with concealed screws to ensure housing tolerances are consistent.

FINISH

Housing and all painted parts are treated with a multi-stage phosphate prior to finish. Parts are then finished with a white powder coat for maximum consistent coverage and longevity. Other colors may be specified; refer to page MTX-1 or contact your local Alera Lighting representative.

SHIELDING

Plank includes both direct and indirect lighting elements. Shielding for the direct element may be selected as a white cross baffle (WCB), regressed perforated panel (RPF), flat perforated panel (FPF), opal acrylic (OA), or acrylic pattern 12 (A12). For a dramatic touch, colored lensing material may be selected as an overlay; contact factory.

MOUNTING

Plank is designed for ceiling suspension with an aircraft cable mechanism. To maintain consistent, predictable mounting points, fixtures use an aircraft cable yoke mounting mechanism from two points at each hanging location. An adjustable aircraft cable of varying lengths is supplied (see ordering guide below). The end of the cable barrel screws into a standard 1/4 20 bolt brought down from the ceiling. Cover plates are provided to shield the ceiling cutout. A straight (standard) or optional coiled cord is available for feed locations as is a feed canopy. All fixtures are suspended in modular increments and must be supported at each fixture housing end. Refer to the Plank TID sheet for actual hanging points with specific row information.

LABELS AND ELECTRICAL

All fixtures bear appropriate UL or CUL labels. Fixtures are prewired with electronic T8, T5, or T5HO ballasts and are available in 120 or 277 volt. Some ballast options are available as dual-voltage 120/277 volt. All fixtures are wired for single circuit operation. Additional circuits can be supplied as an option on the two and three lamp configurations; see ordering guide below.

ORDERING INFORMATION

Model

PLK - Plank Rectangular Housing

Row Length

Specify entire row

Lamp Type & Profile

1T8 - One T8 Lamp
2T8 - Two T8 Lamps
3T8 - Three T8 Lamps
1T5 - One T8 Lamp
2T5 - Two T8 Lamps
3T5 - Three T8 Lamps
1T5HO - One T5HO Lamp
2T5HO - Two T5HO Lamps
3T5HO - Three T5HO Lamps

Housing Type

Blank - Solid (Std.)
PFST - Perforated Strip
HSLT - Horizontal Slot Strip
VSLT - Vertical Slot Strip
CLD - Custom Laser Cut Design Strip

Suspension Length

18 - 18" (Std.)
24 - 24"
36 - 36"
48 - 48"
Other lengths available on request.

Mounting Method

CM - Adjustable Aircraft Cable Mount
See HGR-1 for other hanging methods.

Shielding

WCB - White Cross Baffle
RPF - Regressed Perforated
FPF - Flat Perforated
OA - Opal Acrylic Lens
A12 - Pattern 12 Thick Acrylic Lens

Housing Finish

MW - Matte White (Std.)
See MTX-1 for other color selections.

Voltage

120 - 120V
277 - 277V
347 - 347V
U - 120V-277V

Ballast Type

E - Electronic, Instant Start (Standard for T8)
EP - Electronic, Programmed Start (Standard for T5 & T5HO, optional for T8)
Unless specified, Alera will use fewest ballasts possible.

End Caps (two per row)

Blank - Flat End Cap (Std.)

Fixture Length

Single or Row Individual Lengths. Note: Fixtures in rows are modular and will be identified as components within the row by their individual lengths. Lengths for this product are:
4 = 4' 8 = 8' 12 = 12'

Options

LR - Left/Right Switching (2-Lamp only)*
IBOB - Inboard/Outboard Switching* (3-Lamp only)
EL - Emergency Battery Pack (Small case only)
GLR - Fast Blow Fuse
GMF - Slow Blow Fuse
CSA - UL listed or CSA certified for Canada
DC - Dust Cover (T8 only)

*Switching configuration must be provided.



Hubbell Lighting, Inc.

Subject to change without notice.

701 Millennium Blvd
Greenville SC 29607 • (864) 678-1000
www.aleralighting.com
We are architectural fluorescent lighting



ALERA
LIGHTING

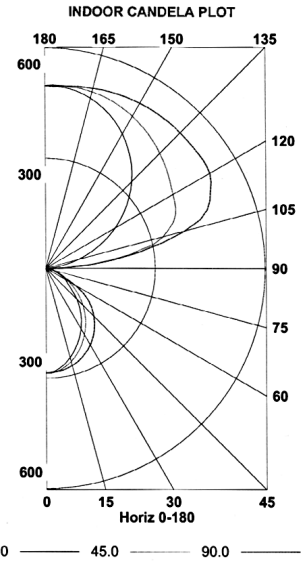
8-1
B

Photometric Report

LUMINAIRE: PLK-1T8-WCB-EB8
 Plank Architectural Beam
 9.75 X 48 1-LAMP WITH GLOSS WHITE CENTER LOUVER AND SIDE REFLECTORS.
BALLAST: REL-1P32-SC
BALLAST FACTOR: 0.92
LAMP: F32T8
LUMENS PER LAMP: 2900
WATTS: 34
MOUNTING: Pendant
SHIELDING ANGLE: 0° = 90 90° = 90
SPACING CRITERION: 0° = 1.03 90° = 1.25
LUMINOUS OPENING IN FEET
 LENGTH: 3.67
 WIDTH: 0.25
 HEIGHT: 0.00

TEST #14038
 DATE: 9/16/05
TOTAL LUMINAIRE EFFICIENCY = 96.5%
LUMINAIRE EFFICACY RATING (LER) = 76
ANSI/IESNA RP-1-2004 COMPLIANCE: YES-VDT INTENSIVE USE
COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$3.16
BASED ON 3000 HRS. AND \$.08 PER KWH

| | | | | AVERAGE LUMINANCE | | CANDELA/SQ M | | | | |
|--|--|--|--|-------------------|------|--------------|------|------|------|--|
| | | | | ANGLE | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 | |
| | | | | 0 | 3344 | 3344 | 3344 | 3344 | 3344 | |
| | | | | 30 | 2587 | 2642 | 2831 | 3089 | 3265 | |
| | | | | 40 | 2205 | 2282 | 2542 | 2894 | 3155 | |
| | | | | 45 | 1974 | 2074 | 2373 | 2771 | 3069 | |
| | | | | 50 | 1697 | 1843 | 2190 | 2628 | 2957 | |
| | | | | 55 | 1493 | 1554 | 1964 | 2434 | 2741 | |
| | | | | 60 | 1408 | 1455 | 1713 | 2135 | 2276 | |
| | | | | 65 | 1332 | 1360 | 1555 | 1638 | 1555 | |
| | | | | 70 | 1269 | 1269 | 1441 | 1338 | 1166 | |
| | | | | 75 | 1224 | 1269 | 1315 | 1179 | 1133 | |
| | | | | 80 | 1216 | 1216 | 1216 | 1013 | 946 | |
| | | | | 85 | 1212 | 1077 | 808 | 673 | 673 | |



COEFFICIENTS OF UTILIZATION (%)

| | | EFFECTIVE FLOOR CAVITY REFLECTANCE = 20% | | | | | | | | | | | | ZONAL CAVITY METHOD | | | | | |
|----|----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------------|-----|-----|-----|-----|----|
| | | 80% | | | | 70% | | | | 50% | | | | 30% | | | | 10% | |
| RC | RW | 70% | 50% | 30% | 10% | 70% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0% |
| 0 | 97 | 97 | 97 | 97 | 86 | 86 | 86 | 86 | 66 | 66 | 66 | 47 | 47 | 47 | 29 | 29 | 29 | 21 | 21 |
| 1 | 89 | 85 | 81 | 78 | 78 | 75 | 72 | 70 | 58 | 56 | 54 | 41 | 40 | 39 | 26 | 26 | 25 | 18 | 18 |
| 2 | 81 | 74 | 69 | 64 | 71 | 66 | 61 | 57 | 51 | 48 | 45 | 36 | 35 | 33 | 23 | 22 | 22 | 16 | 16 |
| 3 | 74 | 65 | 59 | 53 | 65 | 58 | 53 | 48 | 45 | 41 | 38 | 32 | 30 | 28 | 21 | 20 | 18 | 14 | 14 |
| 4 | 67 | 58 | 51 | 45 | 60 | 51 | 45 | 41 | 40 | 36 | 32 | 29 | 26 | 24 | 19 | 17 | 16 | 12 | 12 |
| 5 | 62 | 51 | 44 | 38 | 55 | 46 | 40 | 35 | 35 | 31 | 28 | 26 | 23 | 21 | 17 | 15 | 14 | 10 | 10 |
| 6 | 57 | 46 | 38 | 33 | 50 | 41 | 35 | 30 | 32 | 27 | 24 | 23 | 20 | 18 | 15 | 14 | 12 | 9 | 9 |
| 7 | 52 | 41 | 34 | 29 | 46 | 37 | 31 | 26 | 29 | 24 | 21 | 21 | 18 | 16 | 14 | 12 | 11 | 8 | 8 |
| 8 | 48 | 37 | 30 | 25 | 43 | 33 | 27 | 23 | 26 | 22 | 19 | 19 | 16 | 14 | 13 | 11 | 10 | 7 | 7 |
| 9 | 45 | 34 | 27 | 22 | 40 | 30 | 24 | 20 | 24 | 20 | 17 | 18 | 15 | 13 | 12 | 10 | 9 | 6 | 6 |
| 10 | 42 | 31 | 24 | 20 | 37 | 28 | 22 | 18 | 22 | 18 | 15 | 16 | 13 | 11 | 9 | 8 | 6 | 6 | 6 |

RCR = ROOM CAVITY RATIO RC = EFFECTIVE CEILING CAVITY REFLECTANCE RW = WALL REFLECTANCE

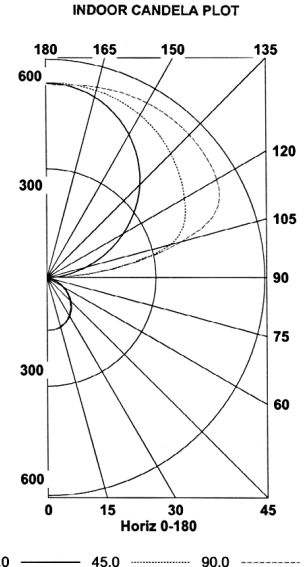
This photometric test was performed using a specific lamp/ballast combination. Extrapolation of these data for other lamp/ballast combinations may produce erroneous results. The ballast factor must be applied to the lumen output rating assigned to the lamp(s) or to the candela values shown. Luminaire efficacy rating (LER) per NEMA LE5-1993. This test is run in accordance with current I.E.S.N.A. published procedures.

Photometric Report

LUMINAIRE: PLK-1T8-RPF-EB8
 Plank Architectural Beam
 9.75 X 48 1-LAMP WITH GLOSS WHITE REGRESS BASKET
BALLAST: REL-1P32-SC
BALLAST FACTOR: 0.92
LAMP: F32T8
LUMENS PER LAMP: 2900
WATTS: 33
MOUNTING: Pendant
SHIELDING ANGLE: 0° = 90 90° = 90
SPACING CRITERION: 0° = 1.24 90° = 1.22
LUMINOUS OPENING IN FEET
 LENGTH: 3.67
 WIDTH: 0.25
 HEIGHT: 0.00

TEST #14034
 DATE: 9/9/05
TOTAL LUMINAIRE EFFICIENCY = 92.7%
LUMINAIRE EFFICACY RATING (LER) = 75
ANSI/IESNA RP-1-2004 COMPLIANCE: YES-VDT INTENSIVE USE
COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$3.20
BASED ON 3000 HRS. AND \$.08 PER KWH

| | | | | AVERAGE LUMINANCE | | CANDELA/SQ M | | | | |
|--|--|--|--|-------------------|------|--------------|------|------|------|--|
| | | | | ANGLE | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 | |
| | | | | 0 | 1713 | 1713 | 1713 | 1713 | 1713 | |
| | | | | 30 | 1666 | 1653 | 1653 | 1639 | 1626 | |
| | | | | 40 | 1593 | 1547 | 1547 | 1531 | 1516 | |
| | | | | 45 | 1526 | 1493 | 1477 | 1460 | 1443 | |
| | | | | 50 | 1460 | 1424 | 1405 | 1387 | 1351 | |
| | | | | 55 | 1350 | 1329 | 1309 | 1268 | 1248 | |
| | | | | 60 | 1220 | 1197 | 1197 | 1126 | 1079 | |
| | | | | 65 | 1083 | 1055 | 1055 | 916 | 833 | |
| | | | | 70 | 892 | 892 | 823 | 652 | 583 | |
| | | | | 75 | 680 | 725 | 589 | 499 | 499 | |
| | | | | 80 | 608 | 608 | 540 | 473 | 473 | |
| | | | | 85 | 538 | 538 | 538 | 538 | 538 | |



COEFFICIENTS OF UTILIZATION (%)

| | | EFFECTIVE FLOOR CAVITY REFLECTANCE = 20% | | | | | | | | | | | | ZONAL CAVITY METHOD | | | | | |
|----|----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------------|-----|-----|-----|-----|----|
| | | 80% | | | | 70% | | | | 50% | | | | 30% | | | | 10% | |
| RC | RW | 70% | 50% | 30% | 10% | 70% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0% |
| 0 | 91 | 91 | 91 | 91 | 80 | 80 | 80 | 80 | 58 | 58 | 58 | 39 | 39 | 39 | 21 | 21 | 21 | 13 | 13 |
| 1 | 83 | 79 | 76 | 73 | 73 | 70 | 67 | 64 | 51 | 49 | 48 | 34 | 33 | 32 | 19 | 18 | 18 | 11 | 11 |
| 2 | 76 | 69 | 64 | 60 | 66 | 61 | 57 | 53 | 45 | 42 | 40 | 30 | 29 | 27 | 16 | 16 | 15 | 9 | 9 |
| 3 | 69 | 61 | 55 | 50 | 60 | 54 | 48 | 44 | 40 | 36 | 33 | 27 | 25 | 23 | 15 | 14 | 13 | 8 | 8 |
| 4 | 63 | 54 | 47 | 42 | 55 | 47 | 42 | 37 | 35 | 31 | 28 | 24 | 21 | 20 | 13 | 12 | 11 | 7 | 7 |
| 5 | 58 | 48 | 41 | 36 | 50 | 42 | 36 | 32 | 31 | 27 | 24 | 21 | 19 | 17 | 12 | 11 | 10 | 6 | 6 |
| 6 | 53 | 43 | 36 | 31 | 46 | 37 | 32 | 27 | 28 | 24 | 21 | 19 | 17 | 15 | 11 | 9 | 8 | 5 | 5 |
| 7 | 49 | 38 | 31 | 26 | 43 | 34 | 28 | 24 | 25 | 21 | 18 | 17 | 15 | 13 | 10 | 8 | 7 | 5 | 5 |
| 8 | 45 | 34 | 28 | 23 | 39 | 30 | 25 | 21 | 23 | 19 | 16 | 16 | 13 | 11 | 9 | 8 | 7 | 4 | 4 |
| 9 | 42 | 31 | 25 | 20 | 36 | 28 | 22 | 18 | 21 | 17 | 14 | 14 | 12 | 10 | 8 | 7 | 6 | 4 | 4 |
| 10 | 39 | 28 | 22 | 18 | 34 | 25 | 20 | 16 | 19 | 15 | 12 | 13 | 11 | 9 | 7 | 6 | 5 | 3 | 3 |

RCR = ROOM CAVITY RATIO RC = EFFECTIVE CEILING CAVITY REFLECTANCE RW = WALL REFLECTANCE

This photometric test was performed using a specific lamp/ballast combination. Extrapolation of these data for other lamp/ballast combinations may produce erroneous results. The ballast factor must be applied to the lumen output rating assigned to the lamp(s) or to the candela values shown. Luminaire efficacy rating (LER) per NEMA LE5-1993. This test is run in accordance with current I.E.S.N.A. published procedures.