

Photometric Report

CATALOG NUMBER: CATALOG NO. : TAK6281/T8

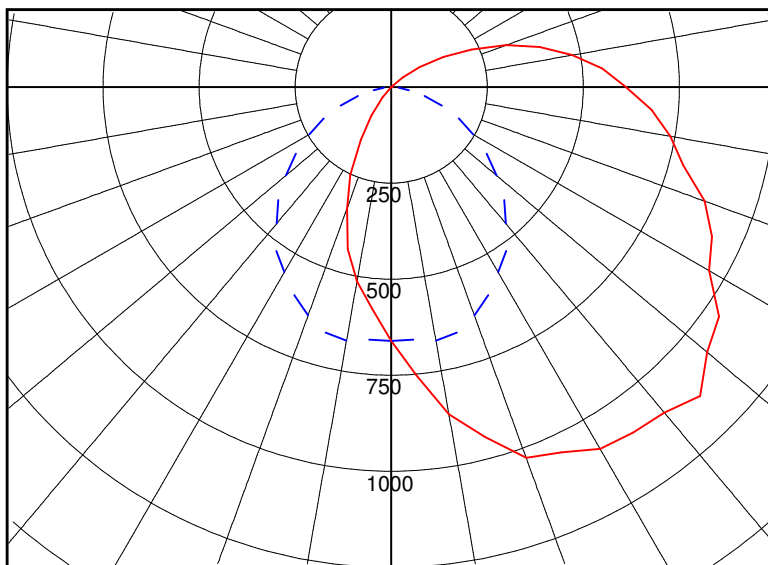
FILENAME: TAK6281%20T8_IES.HTM

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<!-- saved from url=(0055)http://www.guth.com/photometry/uploads/TAK6281%20T8.ies -->
<HTML><HEAD>
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<META content="MSHTML 6.00.2800.1586" name=GENERATOR></HEAD>
<BODY><PRE> IESNA:LM-63-1995
[TEST]REPORT NO P11483. (10612.0)
[MANUFAC] GUTH LIGHTING INC - ST.LOUIS, MISSOURI
[LUMINAIRE] 2/32W T8 4'SURFACE MNT ENCLOSED & GASKETED LUMINAIRE
[LUMINAIRE] CORNER MOUNT WHITE
[LUMINAIRE] ADVANCE BALLAST #REL-2P32-SC WATTS=54
[LUMCAT]CATALOG NO. : TAK6281/T8
[LAMP CAT]LAMP CODE : F32T8/835/RS
```

SUMMARY DATA

```
EFFICIENCY (Total):          46.0 %
EFFICIENCY (Downlight):     40.9 %
EFFICIENCY (Uplight):       5.2 %
CIE CLASSIFICATION:        SEMI-DIRECT
SPACING CRITERION (90-Deg.): 1.25
LUMENS/LAMP:                2950
NO. OF LAMPS:               2
LUMINOUS OPENING:          RECTANGULAR
    Width:                   0.49 (Feet)
    Length:                   4.13
    Height:                   0.17
INPUT WATTS:                 54
RP-1-93 VDT CONFORMANCE:   NON-CONFORMING
```

CANDELA PLOT



Bilaterally Symmetric
Solid: 180-0 Degrees Dashed: 90-270 Degrees

ZONAL LUMEN SUMMARY

| Zone | Lumens | % Lamp | % Luminaire |
|----------|--------|--------|-------------|
| 0 - 30 | 544.3 | 9.2 | 20.0 |
| 0 - 40 | 891.7 | 15.1 | 32.8 |
| 0 - 60 | 1611.9 | 27.3 | 59.4 |
| 60 - 90 | 798.7 | 13.5 | 29.4 |
| 0 - 90 | 2410.6 | 40.9 | 88.8 |
| 90 - 180 | 305.0 | 5.2 | 11.2 |
| 0 - 180 | 2715.5 | 46.0 | 100.0 |

AVERAGE LUMINANCE

(Candelas / Square Meter)

| Angle | 0 | 22.5 | 45 | 67.5 | 90 | 112.5 | 135 | 157.5 | 180 |
|-------|-------|------|------|------|------|-------|------|-------|------|
| 0 | 3520 | 3520 | 3520 | 3520 | 3520 | 3520 | 3520 | 3520 | 3520 |
| 45 | 8230 | 6707 | 5113 | 3617 | 2337 | 1211 | 427 | 84 | 0 |
| 55 | 9146 | 7137 | 5115 | 3381 | 1892 | 618 | 60 | 0 | 0 |
| 65 | 10678 | 7904 | 5230 | 3142 | 1412 | 155 | 0 | 0 | 0 |
| 75 | 14068 | 9185 | 5528 | 2921 | 815 | 0 | 0 | 0 | 0 |
| 85 | 28405 | 6679 | 6572 | 2699 | 237 | 0 | 0 | 0 | 0 |

COEFFICIENT OF UTILIZATION TABLE

Effective Floor cavity Reflectance = 20%

| Pcc ... | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | .54 | .54 | .54 | .54 | .52 | .52 | .52 | .52 | .48 | .48 | .48 | .45 | .45 | .45 | .42 | .42 | .42 | .41 |
| 1 | .48 | .45 | .42 | .40 | .46 | .43 | .41 | .39 | .40 | .38 | .37 | .37 | .36 | .35 | .35 | .34 | .33 | .31 |
| 2 | .43 | .38 | .35 | .32 | .41 | .37 | .34 | .31 | .34 | .32 | .29 | .32 | .30 | .28 | .30 | .28 | .26 | .25 |
| 3 | .39 | .33 | .29 | .26 | .37 | .32 | .28 | .25 | .30 | .27 | .24 | .28 | .25 | .23 | .26 | .24 | .22 | .21 |
| 4 | .35 | .29 | .25 | .22 | .34 | .28 | .24 | .21 | .26 | .23 | .20 | .25 | .22 | .19 | .23 | .21 | .19 | .17 |
| 5 | .32 | .26 | .22 | .18 | .31 | .25 | .21 | .18 | .24 | .20 | .17 | .22 | .19 | .17 | .21 | .18 | .16 | .15 |
| 6 | .30 | .23 | .19 | .16 | .29 | .23 | .19 | .16 | .21 | .18 | .15 | .20 | .17 | .15 | .19 | .16 | .14 | .13 |
| 7 | .28 | .21 | .17 | .14 | .26 | .21 | .17 | .14 | .19 | .16 | .13 | .18 | .15 | .13 | .17 | .14 | .12 | .11 |
| 8 | .26 | .19 | .15 | .12 | .25 | .19 | .15 | .12 | .18 | .14 | .12 | .17 | .14 | .11 | .16 | .13 | .11 | .10 |
| 9 | .24 | .18 | .14 | .11 | .23 | .17 | .13 | .11 | .16 | .13 | .11 | .15 | .12 | .10 | .15 | .12 | .10 | .09 |
| 10 | .22 | .16 | .13 | .10 | .22 | .16 | .12 | .10 | .15 | .12 | .10 | .14 | .11 | .09 | .13 | .11 | .09 | .08 |

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CANDELA TABLE

| Vertical Angle | Horizontal Angles | | | | | | | | |
|-------------------|-------------------|-------------|-----------|-------------|-----------|--------------|------------|--------------|------------|
| | <u>0</u> | <u>22.5</u> | <u>45</u> | <u>67.5</u> | <u>90</u> | <u>112.5</u> | <u>135</u> | <u>157.5</u> | <u>180</u> |
| 0 | 661 | 661 | 661 | 661 | 661 | 661 | 661 | 661 | 661 |
| 5 | 754 | 743 | 720 | 694 | 660 | 637 | 611 | 590 | 579 |
| 10 | 865 | 842 | 797 | 737 | 670 | 616 | 566 | 531 | 514 |
| 15 | 943 | 914 | 849 | 757 | 662 | 581 | 508 | 455 | 437 |
| 20 | 1027 | 990 | 898 | 767 | 632 | 520 | 425 | 360 | 336 |
| 25 | 1049 | 1012 | 911 | 756 | 598 | 485 | 351 | 281 | 252 |
| 30 | 1088 | 1039 | 916 | 738 | 556 | 401 | 272 | 191 | 159 |
| 35 | 1098 | 1039 | 904 | 718 | 521 | 355 | 214 | 124 | 91 |
| 40 | 1106 | 1026 | 873 | 674 | 464 | 283 | 134 | 55 | 35 |
| 45 | 1137 | 1040 | 862 | 639 | 416 | 214 | 72 | 13 | 0 |
| 50 | 1074 | 983 | 804 | 583 | 358 | 156 | 29 | 0 | 0 |
| 55 | 1042 | 953 | 763 | 536 | 303 | 98 | 9 | 0 | 0 |
| 60 | 956 | 885 | 697 | 476 | 246 | 52 | 0 | 0 | 0 |
| 65 | 921 | 853 | 655 | 426 | 194 | 21 | 0 | 0 | 0 |
| 70 | 868 | 806 | 603 | 375 | 140 | 0 | 0 | 0 | 0 |
| 75 | 787 | 726 | 539 | 317 | 90 | 0 | 0 | 0 | 0 |
| 80 | 738 | 677 | 490 | 262 | 47 | 0 | 0 | 0 | 0 |
| 85 | 680 | 319 | 439 | 211 | 19 | 0 | 0 | 0 | 0 |
| 90 | 611 | 554 | 380 | 156 | 0 | 0 | 0 | 0 | 0 |
| 95 | 551 | 482 | 311 | 88 | 0 | 0 | 0 | 0 | 0 |
| 100 | 478 | 413 | 249 | 47 | 0 | 0 | 0 | 0 | 0 |
| 105 | 400 | 341 | 125 | 0 | 0 | 0 | 0 | 0 | 0 |
| 110 | 318 | 262 | 64 | 0 | 0 | 0 | 0 | 0 | 0 |
| 115 | 231 | 177 | 29 | 0 | 0 | 0 | 0 | 0 | 0 |
| 120 | 157 | 111 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 125 | 90 | 58 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 130 | 39 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 135 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 140 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 145 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 155 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 160 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 165 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 170 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 175 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 180 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |