

# Photometric Report

CATALOG NUMBER: CATALOG NO. : CW4-4G2F60

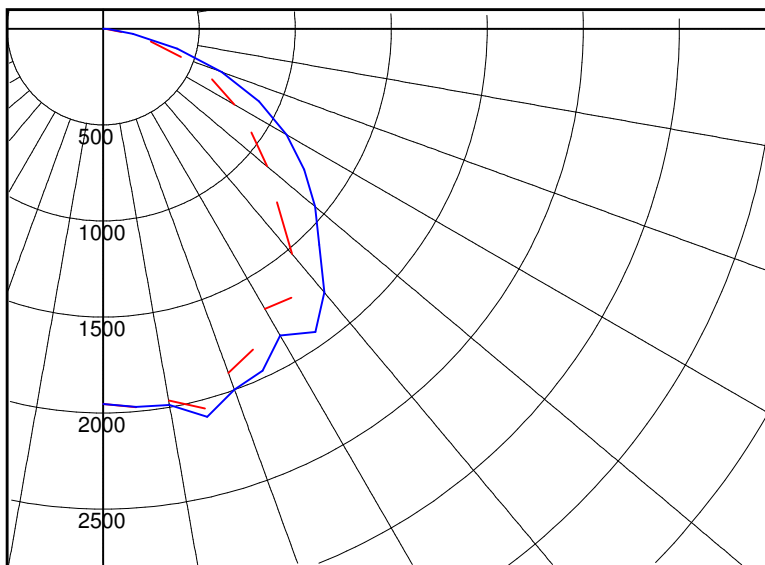
FILENAME: CW4-4G2F60\_IES.HTM

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<!-- saved from url=(0053)http://www.guth.com/photometry/uploads/CW4-4G2F60.ies -->
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<BODY><PRE>IESNA:LM-63-1995
[TEST]REPORT NO. P11428A 1.343
[MANUFAC] GUTH LIGHTING - ST. LOUIS, MO
[LUMINAIRE] 2/60W T12HO LAMP 1x4'SURFACE LUMINAIRE
[LUMINAIRE] 304 STAINLESS STEEL BODY w/CLEAR LENS
[LUMINAIRE] WATTS=150
[LUMCAT]CATALOG NO. : CW4-4G2F60
[LAMPCAT]LAMP CODE : F60W T12 WW
```

## SUMMARY DATA

EFFICIENCY (Total): 70.9 %  
 EFFICIENCY (Downlight): 70.9 %  
 EFFICIENCY (Uplight): 0.0 %  
 CIE CLASSIFICATION: DIRECT  
 SPACING CRITERION (0-Deg.): 1.34  
 SPACING CRITERION (90-Deg.): 1.49  
 LUMENS/LAMP: 4300  
 NO. OF LAMPS: 2  
 LUMINOUS OPENING: RECTANGULAR  
     Width: 1.13 (Feet)  
     Length: 4.21  
     Height: 0.43  
 INPUT WATTS: 150  
 RP-1-93 VDT CONFORMANCE: NON-CONFORMING

## CANDELA PLOT



Quadrilaterally Symmetric  
 Dashed: 0 Degrees Solid: 90 Degrees

## ZONAL LUMEN SUMMARY

| Zone     | Lumens | % Lamp | % Luminaire |
|----------|--------|--------|-------------|
| 0 - 30   | 1630.6 | 19.0   | 26.7        |
| 0 - 40   | 2742.9 | 31.9   | 45.0        |
| 0 - 60   | 4884.6 | 56.8   | 80.1        |
| 60 - 90  | 1214.1 | 14.1   | 19.9        |
| 0 - 90   | 6098.7 | 70.9   | 100.0       |
| 90 - 180 | 0.0    | 0.0    | 0.0         |
| 0 - 180  | 6098.7 | 70.9   | 100.0       |

## AVERAGE LUMINANCE

(Candelas / Square Meter)

| Angle | 0    | 22.5 | 45   | 67.5 | 90   |
|-------|------|------|------|------|------|
| 0     | 4421 | 4421 | 4421 | 4421 | 4421 |
| 45    | 3712 | 3476 | 3502 | 3566 | 3686 |
| 55    | 3241 | 2971 | 3045 | 3146 | 3264 |
| 65    | 2743 | 2530 | 2595 | 2578 | 2641 |
| 75    | 1623 | 1536 | 1477 | 1419 | 1441 |
| 85    | 225  | 205  | 156  | 128  | 131  |

## 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       | .84 | .84 | .84 | .84 | .82 | .82 | .82 | .82 | .79 | .79 | .79 | .75 | .75 | .75 | .72 | .72 | .72 | .71 |
| 1       | .77 | .74 | .71 | .69 | .75 | .73 | .70 | .67 | .69 | .67 | .65 | .67 | .65 | .63 | .64 | .63 | .61 | .60 |
| 2       | .70 | .65 | .60 | .56 | .69 | .63 | .59 | .55 | .61 | .57 | .54 | .58 | .55 | .53 | .56 | .54 | .51 | .50 |
| 3       | .64 | .57 | .51 | .46 | .62 | .56 | .50 | .46 | .53 | .49 | .45 | .51 | .48 | .44 | .50 | .46 | .44 | .42 |
| 4       | .59 | .50 | .44 | .39 | .57 | .49 | .43 | .39 | .47 | .42 | .38 | .46 | .41 | .38 | .44 | .40 | .37 | .36 |
| 5       | .54 | .45 | .38 | .34 | .52 | .44 | .38 | .33 | .42 | .37 | .33 | .41 | .36 | .33 | .40 | .36 | .32 | .31 |
| 6       | .50 | .40 | .34 | .29 | .48 | .40 | .33 | .29 | .38 | .33 | .29 | .37 | .32 | .29 | .36 | .32 | .28 | .27 |
| 7       | .46 | .36 | .30 | .26 | .45 | .36 | .30 | .26 | .35 | .29 | .25 | .34 | .29 | .25 | .33 | .28 | .25 | .24 |
| 8       | .43 | .33 | .27 | .23 | .42 | .33 | .27 | .23 | .32 | .26 | .23 | .31 | .26 | .23 | .30 | .26 | .22 | .21 |
| 9       | .40 | .30 | .25 | .21 | .39 | .30 | .24 | .20 | .29 | .24 | .20 | .28 | .24 | .20 | .28 | .23 | .20 | .19 |
| 10      | .37 | .28 | .22 | .19 | .36 | .28 | .22 | .19 | .27 | .22 | .18 | .26 | .22 | .18 | .26 | .21 | .18 | .17 |

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## CANDELA TABLE

| Vertical<br>Angle | Horizontal Angles |             |           |             |           |
|-------------------|-------------------|-------------|-----------|-------------|-----------|
|                   | <u>0</u>          | <u>22.5</u> | <u>45</u> | <u>67.5</u> | <u>90</u> |
| 0                 | 1954              | 1954        | 1954      | 1954        | 1954      |
| 5                 | 1977              | 1969        | 1965      | 1976        | 1976      |
| 10                | 1965              | 1953        | 1976      | 1973        | 1989      |
| 15                | 2047              | 2059        | 2080      | 2095        | 2092      |
| 20                | 1907              | 1933        | 1961      | 1988        | 1998      |
| 25                | 1844              | 1863        | 1919      | 1949        | 1965      |
| 30                | 1684              | 1715        | 1778      | 1824        | 1844      |
| 35                | 1710              | 1751        | 1836      | 1903        | 1927      |
| 40                | 1530              | 1574        | 1673      | 1762        | 1792      |
| 45                | 1279              | 1347        | 1468      | 1550        | 1590      |
| 50                | 1113              | 1179        | 1308      | 1405        | 1440      |
| 55                | 941               | 1011        | 1148      | 1242        | 1277      |
| 60                | 790               | 877         | 1009      | 1085        | 1103      |
| 65                | 625               | 716         | 839       | 885         | 896       |
| 70                | 430               | 518         | 602       | 643         | 655       |
| 75                | 257               | 333         | 384       | 399         | 399       |
| 80                | 97                | 140         | 157       | 157         | 157       |
| 85                | 19                | 30          | 30        | 27          | 27        |
| 90                | 0                 | 0           | 0         | 0           | 0         |