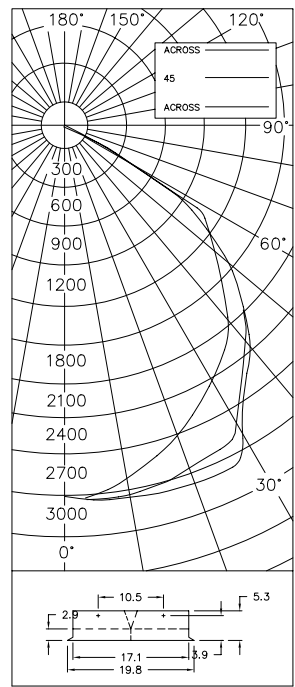


**LIGHTING SCIENCES INC.**  
7830 E. EVANS RD. SCOTTSDALE, AZ. 85260 602-991-9260

CERTIFIED TEST REPORT NO. 2796 COMPUTED BY LSI PROGRAM \*\*TEST-LITE\*\*  
GLOBE 20 IN. X 4 FT. RECESSED TROFFER, CAT NO. ALP9032-4R-05-12  
12 CELL SEMI-SPECULAR LOUVER, ADVANCE BALLAST #R-240-TP  
TWO F40LW/RS/WMI FLOURESCENT LAMPS. LUMEN RATING = 3050 LMS.



| ANGLE | ACROSS 67.5 | 45   | 22.5 | ALONG | OUTPUT LUMENS |
|-------|-------------|------|------|-------|---------------|
| 0     | 1616        | 1616 | 1616 | 1616  | 1616          |
| 5     | 1625        | 1622 | 1615 | 1613  | 1610          |
| 10    | 1644        | 1639 | 1612 | 1592  | 1584          |
| 15    | 1652        | 1639 | 1600 | 1559  | 1540          |
| 20    | 1654        | 1631 | 1572 | 1517  | 1488          |
| 25    | 1670        | 1626 | 1536 | 1468  | 1423          |
| 30    | 1665        | 1616 | 1502 | 1407  | 1348          |
| 35    | 1681        | 1584 | 1461 | 1335  | 1261          |
| 40    | 1753        | 1605 | 1400 | 1251  | 1159          |
| 45    | 1579        | 1543 | 1324 | 1153  | 1043          |
| 50    | 1187        | 1225 | 1220 | 1033  | 906           |
| 55    | 652         | 739  | 944  | 866   | 741           |
| 60    | 397         | 406  | 575  | 620   | 527           |
| 65    | 238         | 232  | 252  | 294   | 215           |
| 70    | 85          | 93   | 91   | 62    | 49            |
| 75    | 35          | 35   | 32   | 31    | 27            |
| 80    | 18          | 18   | 18   | 17    | 15            |
| 85    | 6           | 7    | 6    | 7     | 5             |
| 90    | 0           | 0    | 0    | 0     | 0             |

| ANGLE  | LUMENS | PERCENTAGE |
|--------|--------|------------|
| 0-30   | 1320   | 21.65      |
| 0-40   | 2240   | 36.74      |
| 0-60   | 3985   | 65.34      |
| 0-90   | 4308   | 70.63      |
| 40-90  | 2067   | 33.89      |
| 60-90  | 322    | 5.28       |
| 90-180 | 0      | 0.00       |
| 0-180  | 4308   | 70.63      |

\*\* EFFICIENCY = 70.63% \*\*  
PAINT REFLECTANCE = .88 2/MH = 1.6  
SC(ALONG) = 1.2, SC(ACROSS) = 1.6  
CERTIFIED BY:  
JON LEWIS DATE OCT 26, 1982  
PREPARED FOR: GLOBE ILLUMINATION GARDENA, CA.  
SHIELDING ANGLE: 35° C -23° L

| ANGLE | ACROSS | 45   | ALONG |
|-------|--------|------|-------|
| 45    | 2023   | 1982 | 1752  |
| 55    | 1434   | 1622 | 1558  |
| 65    | 561    | 675  | 643   |
| 75    | 144    | 138  | 117   |
| 85    | 85     | 75   | 65    |

TESTED IN ACCORDANCE WITH IES PROCEDURES. TEST DISTANCE = 8 METERS (26')

| ROOM CAVITY RATIO | 80   |     |     |     |     |     | 70   |     |     |     |     |     | 50   |     |     |     |     |     | 30   |    |    |    |    |   | 10   |    |    |    |    |   | 0    |    |    |    |    |   |
|-------------------|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|------|----|----|----|----|---|------|----|----|----|----|---|------|----|----|----|----|---|
|                   | WALL | 70  | 50  | 30  | 10  | 0   | WALL | 70  | 50  | 30  | 10  | 0   | WALL | 70  | 50  | 30  | 10  | 0   | WALL | 70 | 50 | 30 | 10 | 0 | WALL | 70 | 50 | 30 | 10 | 0 | WALL | 70 | 50 | 30 | 10 | 0 |
| 1                 | .75  | .73 | .71 | .69 | .74 | .72 | .70  | .68 | .69 | .67 | .66 | .66 | .65  | .64 | .64 | .63 | .62 | .60 |      |    |    |    |    |   |      |    |    |    |    |   |      |    |    |    |    |   |
| 2                 | .70  | .66 | .62 | .59 | .69 | .65 | .61  | .59 | .62 | .60 | .57 | .60 | .58  | .56 | .58 | .57 | .55 | .54 |      |    |    |    |    |   |      |    |    |    |    |   |      |    |    |    |    |   |
| 3                 | .65  | .59 | .55 | .51 | .64 | .58 | .54  | .51 | .57 | .53 | .50 | .55 | .52  | .49 | .53 | .51 | .48 | .47 |      |    |    |    |    |   |      |    |    |    |    |   |      |    |    |    |    |   |
| 4                 | .60  | .53 | .48 | .45 | .59 | .53 | .48  | .44 | .51 | .47 | .44 | .49 | .46  | .43 | .48 | .45 | .43 | .41 |      |    |    |    |    |   |      |    |    |    |    |   |      |    |    |    |    |   |
| 5                 | .55  | .48 | .42 | .38 | .54 | .47 | .42  | .38 | .46 | .41 | .38 | .44 | .41  | .38 | .43 | .40 | .37 | .36 |      |    |    |    |    |   |      |    |    |    |    |   |      |    |    |    |    |   |
| 6                 | .51  | .43 | .38 | .34 | .50 | .42 | .37  | .33 | .41 | .37 | .33 | .40 | .36  | .33 | .39 | .35 | .33 | .31 |      |    |    |    |    |   |      |    |    |    |    |   |      |    |    |    |    |   |
| 7                 | .47  | .39 | .33 | .30 | .46 | .38 | .33  | .29 | .37 | .32 | .29 | .36 | .32  | .29 | .35 | .32 | .29 | .27 |      |    |    |    |    |   |      |    |    |    |    |   |      |    |    |    |    |   |
| 8                 | .43  | .35 | .29 | .25 | .42 | .34 | .29  | .25 | .33 | .29 | .25 | .32 | .28  | .25 | .32 | .28 | .25 | .24 |      |    |    |    |    |   |      |    |    |    |    |   |      |    |    |    |    |   |
| 9                 | .40  | .31 | .26 | .22 | .39 | .31 | .26  | .22 | .30 | .25 | .22 | .29 | .25  | .22 | .28 | .24 | .21 | .20 |      |    |    |    |    |   |      |    |    |    |    |   |      |    |    |    |    |   |
| 10                | .37  | .28 | .23 | .19 | .36 | .28 | .23  | .19 | .27 | .22 | .19 | .26 | .22  | .19 | .26 | .22 | .19 | .18 |      |    |    |    |    |   |      |    |    |    |    |   |      |    |    |    |    |   |

4 TUBE PARABOLIC TYPE LUMINAIRE  
APPROVED FOR RECESSED MOUNTING

THE LUMINAIRE SHALL BE COMMERCIAL TYPE WITH CODE GAUGE STEEL, RIGIDIZED BY FULL LENGTH DIE EMBOSING.

LOUVER ASSEMBLY TO BE PROVIDED WITH SELF-ALIGNING SPRING LOADED TRIGGER LATCHES AND HEAVY GAUGE STEEL HINGES WHICH ALLOW HINGING FROM EITHER SIDE. PAINTED METAL PARTS ARE PRIMED WITH A COATING OF IRON PHOSPHATE. REGRESS AREA IS PAINTED MATTE BLACK ENAMEL, LOUVERS ARE TO BE PRE-ANODIZED SEMI-SPECULAR ALUMINUM.

THE COEFFICIENT OF UTILIZATION SHALL NOT BE LESS THAN .41 BASED ON A CEILING REFLECTANCE OF 50 PERCENT, WALL REFLECTANCE OF 30 PERCENT, FLOOR REFLECTANCE OF 20 PERCENT, AND A ROOM CAVITY RATIO OF 5.

BALLAST SHALL BE ENERGY SAVING, HPF, ETL, 430MA WITH U.L. AND C.B.M. LABELS. FIXTURE TO BE GLOBE CAT. NO ALP9034-4R-02-12 OR APPROVED EQUAL.

LAMPS  
BALLAST

4-4 FOOT-F-40 T12 CW  
RAPID START