



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING  
MEMBER

905 Harrison Street · Allentown, PA 18103 · (610) 770-1044 · Fax (610) 770-8912 · www.LuminaireTesting.com

LTL NUMBER: 05862

DATE: 06-18-2001

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 7HF226E-07614SCL

LUMINAIRE: FORMED STEEL HOUSING, SPUN SEMI-SPECULAR ALUMINUM REFLECTOR,  
CLEAR ACRYLIC PRISMATIC LENS ABOVE SPUN SPECULAR ALUMINUM  
LOWER REFLECTOR.

LAMPS: TWO PHILIPS PL-C 26W/35/4P RATED AT 1800 LUMENS EACH.

BALLAST: ONE ADVANCE ICF-2S26-H1-LD

MOUNTING: RECESSED

TOTAL INPUT WATTS = 50.0 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

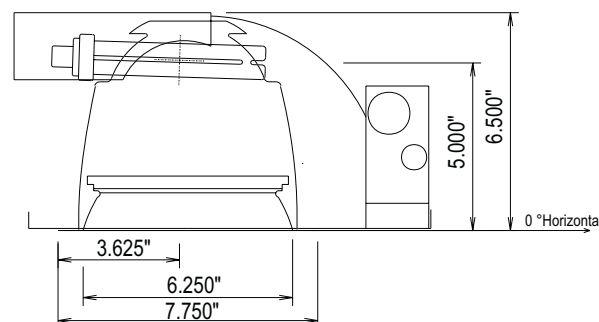
#05862

#### CANDELA DISTRIBUTION

|    | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 |
|----|-----|------|------|------|------|
| 0  | 890 | 890  | 890  | 890  | 890  |
| 5  | 873 | 878  | 887  | 892  | 893  |
| 15 | 817 | 823  | 842  | 858  | 861  |
| 25 | 670 | 684  | 710  | 724  | 725  |
| 35 | 420 | 426  | 444  | 454  | 453  |
| 45 | 210 | 211  | 217  | 231  | 240  |
| 55 | 99  | 101  | 109  | 112  | 113  |
| 65 | 49  | 55   | 62   | 60   | 57   |
| 75 | 21  | 22   | 23   | 24   | 23   |
| 85 | 0   | 0    | 0    | 0    | 0    |
| 90 | 0   | 0    | 0    | 0    | 0    |

#### FLUX

|     |
|-----|
| 84  |
| 236 |
| 321 |
| 276 |
| 173 |
| 97  |
| 57  |
| 24  |
| 0   |



#### ZONAL LUMEN SUMMARY

| ZONE   | LUMENS | %LAMP | %FIXT |
|--------|--------|-------|-------|
| 0- 30  | 641    | 17.8  | 50.6  |
| 0- 40  | 917    | 25.5  | 72.3  |
| 0- 60  | 1187   | 33.0  | 93.6  |
| 0- 90  | 1269   | 35.2  | 100.0 |
| 90-180 | 0      | 0.0   | 0.0   |
| 0-180  | 1269   | 35.2  | 100.0 |

TOTAL LUMINAIRE EFFICIENCY: 35.2%

CIE TYPE: DIRECT

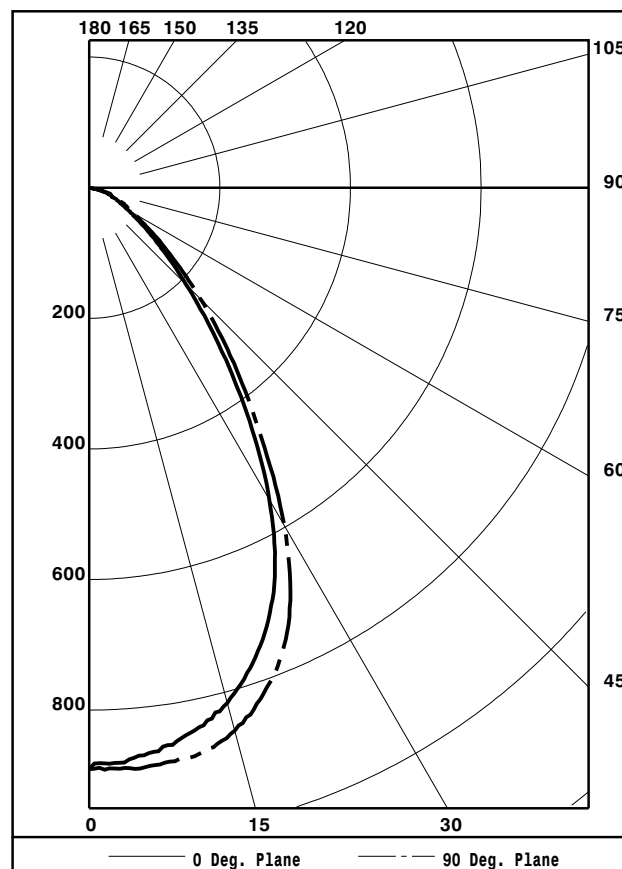
PLANE: 0-DEG 90-DEG

SPACING CRITERIA: 1.0 1.1

LUMINOUS DIAMETER: 6.250

#### LUMINANCE IN CANDELA PER SQUARE METER

| ANGLE<br>IN DEG | AVERAGE<br>0-DEG | AVERAGE<br>45-DEG | AVERAGE<br>90-DEG |
|-----------------|------------------|-------------------|-------------------|
| 0               | 44961.           | 44961.            | 44961.            |
| 45              | 15003.           | 15503.            | 17147.            |
| 55              | 8720.            | 9600.             | 9953.             |
| 65              | 5857.            | 7411.             | 6814.             |
| 75              | 4099.            | 4489.             | 4489.             |
| 85              | 0.               | 0.                | 0.                |



TESTED BY HERSCHEL SCHRECK  
CHECKED BY MIKE GRATHER

THIS REPORT BASED ON LM-41 AND OTHER PERTINENT IES PROCEDURES.



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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD  
EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

| RC | 80 |    |    |    | 70 |    |    |    | 50 |    |    |    | 30 |    |    |    | 10 |    |    |    | 0  |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0  |
| 0  | 42 | 42 | 42 | 42 | 41 | 41 | 41 | 41 | 39 | 39 | 39 | 37 | 37 | 37 | 36 | 36 | 36 | 35 | 35 | 35 | 35 |
| 1  | 40 | 38 | 37 | 37 | 39 | 38 | 37 | 36 | 36 | 36 | 35 | 35 | 34 | 34 | 34 | 33 | 33 | 32 | 32 | 32 | 32 |
| 2  | 37 | 35 | 34 | 32 | 36 | 35 | 33 | 32 | 33 | 32 | 31 | 32 | 31 | 30 | 31 | 31 | 30 | 29 | 29 | 29 | 29 |
| 3  | 35 | 32 | 30 | 29 | 34 | 32 | 30 | 28 | 31 | 29 | 28 | 30 | 29 | 27 | 29 | 28 | 27 | 26 | 26 | 26 | 26 |
| 4  | 33 | 30 | 27 | 26 | 32 | 29 | 27 | 25 | 28 | 27 | 25 | 28 | 26 | 25 | 27 | 26 | 24 | 24 | 24 | 24 | 24 |
| 5  | 31 | 27 | 25 | 23 | 30 | 27 | 24 | 23 | 26 | 24 | 23 | 25 | 24 | 22 | 25 | 23 | 22 | 22 | 22 | 22 | 22 |
| 6  | 29 | 25 | 23 | 21 | 28 | 25 | 22 | 21 | 24 | 22 | 21 | 24 | 22 | 20 | 23 | 22 | 20 | 20 | 20 | 20 | 20 |
| 7  | 27 | 23 | 21 | 19 | 26 | 23 | 20 | 19 | 22 | 20 | 19 | 22 | 20 | 19 | 21 | 20 | 18 | 18 | 18 | 18 | 18 |
| 8  | 25 | 21 | 19 | 17 | 25 | 21 | 19 | 17 | 21 | 18 | 17 | 20 | 18 | 17 | 20 | 18 | 17 | 16 | 16 | 16 | 16 |
| 9  | 23 | 19 | 17 | 15 | 23 | 19 | 17 | 15 | 19 | 17 | 15 | 18 | 17 | 15 | 18 | 16 | 15 | 15 | 15 | 15 | 15 |
| 10 | 22 | 18 | 15 | 14 | 22 | 18 | 15 | 14 | 17 | 15 | 14 | 17 | 15 | 14 | 17 | 15 | 14 | 13 | 13 | 13 | 13 |

CANDELA DISTRIBUTION

|    | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 |
|----|-----|------|------|------|------|
| 0  | 890 | 890  | 890  | 890  | 890  |
| 5  | 873 | 878  | 887  | 892  | 893  |
| 10 | 852 | 858  | 871  | 884  | 886  |
| 15 | 817 | 823  | 842  | 858  | 861  |
| 20 | 755 | 764  | 791  | 805  | 807  |
| 25 | 670 | 684  | 710  | 724  | 725  |
| 30 | 552 | 568  | 587  | 598  | 597  |
| 35 | 420 | 426  | 444  | 454  | 453  |
| 40 | 301 | 303  | 316  | 331  | 336  |
| 45 | 210 | 211  | 217  | 231  | 240  |
| 50 | 144 | 145  | 150  | 161  | 166  |
| 55 | 99  | 101  | 109  | 112  | 113  |
| 60 | 70  | 74   | 80   | 83   | 81   |
| 65 | 49  | 55   | 62   | 60   | 57   |
| 70 | 37  | 40   | 44   | 43   | 41   |
| 75 | 21  | 22   | 23   | 24   | 23   |
| 80 | 1   | 2    | 2    | 2    | 2    |
| 85 | 0   | 0    | 0    | 0    | 0    |
| 90 | 0   | 0    | 0    | 0    | 0    |

ZONAL LUMEN SUMMARY

|        | 0- 5 | 21. |
|--------|------|-----|
| 5- 10  | 63.  |     |
| 10- 15 | 102. |     |
| 15- 20 | 135. |     |
| 20- 25 | 157. |     |
| 25- 30 | 164. |     |
| 30- 35 | 150. |     |
| 35- 40 | 125. |     |
| 40- 45 | 98.  |     |
| 45- 50 | 75.  |     |
| 50- 55 | 56.  |     |
| 55- 60 | 42.  |     |
| 60- 65 | 32.  |     |
| 65- 70 | 25.  |     |
| 70- 75 | 17.  |     |
| 75- 80 | 7.   |     |
| 80- 85 | 0.   |     |
| 85- 90 | 0.   |     |

THIS TEST WAS CONDUCTED USING RELATIVE PHOTOMETRY TECHNIQUES ACCORDING TO STANDARD IESNA PROCEDURES. THE USER MUST THEREFORE USE CAUTION IN THE FOLLOWING SITUATIONS: 1) THIS TEST WAS PERFORMED USING A SPECIFIC BALLAST/LAMP COMBINATION. EXTRAPOLATION OF THESE DATA FOR OTHER BALLAST/LAMP COMBINATIONS MAY PRODUCE ERRONEOUS RESULTS. 2) ACCORDING TO IESNA PROCEDURES, THE BALLAST(S) AND LAMP(S) ARE PRESUMED TO PRODUCE 100% OF RATED OUTPUT. AN APPROPRIATE BALLAST FACTOR MUST BE APPLIED TO THE LUMEN OUTPUT RATINGS AND LUMINOUS INTENSITY VALUES GIVEN. 3) THIS TEST WAS CONDUCTED IN A CONTROLLED LABORATORY ENVIRONMENT WHERE THE AMBIENT TEMPERATURE WAS HELD AT 25°C ±1°C. FIELD PERFORMANCE MAY DIFFER PARTICULARLY IN REGARDS TO CHANGE IN LUMINOUS OUTPUT AS A RESULT OF DIFFERENCE IN AMBIENT TEMPERATURE AND METHOD OF MOUNTING THE LUMINAIRE.



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VISUAL COMFORT PROBABILITY TABLE

RATED LUMENS PER LAMP 1800.

100. FC. REFLECTANCES 80/50/20

ROOM LUMINAIRES 0 DEG PLANE

LUMINAIRES 90 DEG PLANE

| W   | L   | 8.5 | 10.0 | 13.0 | 16.0 | 8.5 | 10.0 | 13.0 | 16.0 |
|-----|-----|-----|------|------|------|-----|------|------|------|
| 20  | 20  | 40  | 41   | 48   | 50   | 37  | 39   | 45   | 47   |
| 20  | 30  | 41  | 37   | 39   | 42   | 38  | 34   | 36   | 39   |
| 20  | 40  | 41  | 39   | 36   | 37   | 43  | 36   | 33   | 34   |
| 20  | 60  | 41  | 39   | 39   | 36   | 43  | 36   | 35   | 32   |
| 30  | 20  | 41  | 42   | 47   | 50   | 40  | 40   | 44   | 47   |
| 30  | 30  | 43  | 37   | 38   | 41   | 41  | 35   | 35   | 38   |
| 30  | 40  | 43  | 40   | 35   | 35   | 45  | 38   | 32   | 33   |
| 30  | 60  | 43  | 40   | 37   | 34   | 45  | 38   | 35   | 31   |
| 30  | 80  | 43  | 40   | 37   | 38   | 45  | 38   | 35   | 35   |
| 40  | 20  | 45  | 44   | 48   | 50   | 44  | 43   | 46   | 48   |
| 40  | 30  | 47  | 40   | 38   | 41   | 46  | 38   | 36   | 39   |
| 40  | 40  | 47  | 43   | 36   | 35   | 48  | 41   | 34   | 33   |
| 40  | 60  | 47  | 43   | 38   | 33   | 48  | 41   | 36   | 31   |
| 40  | 80  | 47  | 43   | 38   | 37   | 48  | 41   | 36   | 35   |
| 40  | 100 | 47  | 43   | 38   | 37   | 48  | 41   | 36   | 35   |
| 60  | 30  | 50  | 44   | 40   | 42   | 48  | 42   | 38   | 40   |
| 60  | 40  | 50  | 46   | 37   | 36   | 50  | 45   | 35   | 34   |
| 60  | 60  | 50  | 46   | 39   | 34   | 50  | 45   | 37   | 32   |
| 60  | 80  | 50  | 46   | 39   | 37   | 51  | 45   | 37   | 35   |
| 60  | 100 | 50  | 46   | 39   | 37   | 51  | 45   | 38   | 36   |
| 100 | 40  | 50  | 46   | 42   | 40   | 50  | 45   | 41   | 38   |
| 100 | 60  | 50  | 46   | 44   | 38   | 51  | 45   | 43   | 36   |
| 100 | 80  | 50  | 46   | 44   | 41   | 51  | 45   | 43   | 40   |
| 100 | 100 | 50  | 46   | 44   | 41   | 51  | 45   | 43   | 40   |



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LTL TEST #05862

CIRCLE-OF-LIGHT

| Ft<br>below | FC<br>nadir | Dia<br>@ 50% |
|-------------|-------------|--------------|
| 6.0         | 24.7        | 6.3          |
| 8.0         | 13.9        | 8.4          |
| 10.0        | 8.9         | 10.5         |
| 12.0        | 6.2         | 12.6         |
| 14.0        | 4.5         | 14.7         |
| 16.0        | 3.5         | 16.8         |

NOTE: 'Dia' spans the edge-points that are half of nadir FC