



LUMINAIRE TESTING LABORATORY, INC.

IES SUSTAINING MEMBER

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

LTL NUMBER: 06652

DATE: 06-28-2002

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 5INC-05300SCL

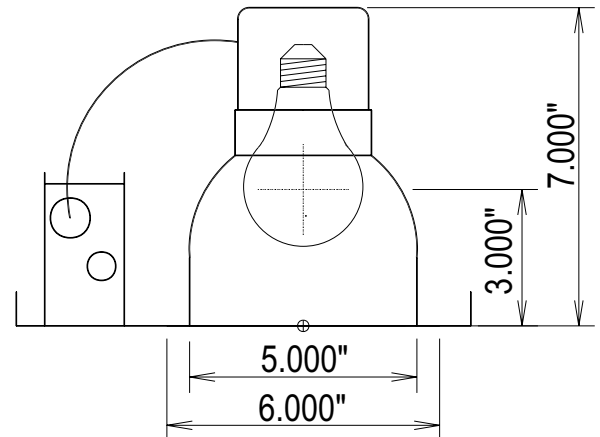
LUMINAIRE: FORMED STEEL HOUSING, SPUN SPECULAR ALUMINUM REFLECTOR,
NO ENCLOSURE.

LAMP: ONE GE 100A STANDARD 100 WATT A19 INCANDESCENT RATED AT 1710 LUMENS.

MOUNTING: RECESSED

#06652

| DEG | CANDELA | LUMENS |
|-----|---------|--------|
| 0 | 277 | |
| 5 | 280 | 27 |
| 15 | 294 | 86 |
| 25 | 422 | 194 |
| 35 | 428 | 265 |
| 45 | 320 | 247 |
| 55 | 192 | 171 |
| 65 | 65 | 67 |
| 75 | 4 | 7 |
| 85 | 0 | 0 |
| 90 | 0 | |



| ZONAL LUMEN SUMMARY | | | |
|---------------------|--------|-------|-------|
| ZONE | LUMENS | %LAMP | %FIXT |
| 0- 30 | 307 | 17.9 | 28.8 |
| 0- 40 | 572 | 33.5 | 53.7 |
| 0- 60 | 991 | 57.9 | 93.0 |
| 0- 90 | 1065 | 62.3 | 100.0 |
| 90-180 | 0 | 0.0 | 0.0 |
| 0-180 | 1065 | 62.3 | 100.0 |

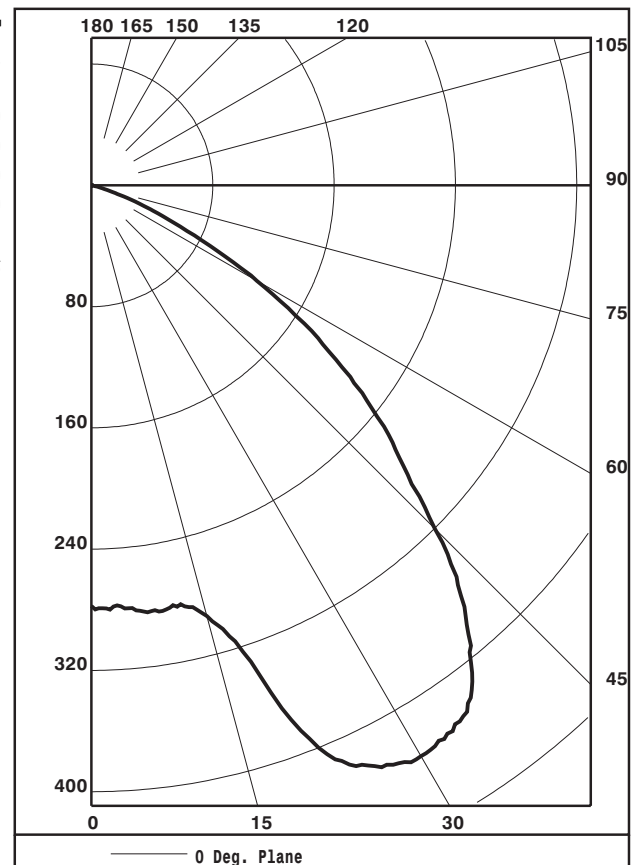
TOTAL LUMINAIRE EFFICIENCY: 62.3%
CIE TYPE: DIRECT
LUMINAIRE SPACING CRITERION = 1.7
LUMINOUS DIAMETER: 5.000

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE AVERAGE

IN DEG

| | |
|----|--------|
| 0 | 21865. |
| 45 | 35722. |
| 55 | 26423. |
| 65 | 12140. |
| 75 | 1220. |
| 85 | 0. |



TESTED BY HERSCHEL SCHRECK
CHECKED BY MIKE GRATHER

THIS REPORT BASED ON LM-46 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 | 0 |
| 0 | 74 | 74 | 74 | 74 | 72 | 72 | 72 | 72 | 69 | 69 | 69 | 66 | 66 | 66 | 63 | 63 | 63 | 62 |
| 1 | 69 | 67 | 65 | 63 | 68 | 66 | 64 | 62 | 63 | 62 | 60 | 61 | 60 | 59 | 59 | 58 | 57 | 56 |
| 2 | 65 | 61 | 58 | 55 | 63 | 60 | 57 | 54 | 58 | 55 | 53 | 56 | 54 | 52 | 54 | 52 | 51 | 50 |
| 3 | 60 | 55 | 51 | 47 | 59 | 54 | 50 | 47 | 52 | 49 | 46 | 50 | 48 | 45 | 49 | 47 | 45 | 44 |
| 4 | 56 | 49 | 45 | 41 | 54 | 49 | 44 | 41 | 47 | 43 | 41 | 46 | 43 | 40 | 45 | 42 | 40 | 38 |
| 5 | 51 | 44 | 40 | 36 | 50 | 44 | 39 | 36 | 42 | 38 | 35 | 41 | 38 | 35 | 40 | 37 | 35 | 34 |
| 6 | 47 | 40 | 35 | 31 | 46 | 39 | 34 | 31 | 38 | 34 | 31 | 37 | 33 | 31 | 36 | 33 | 30 | 29 |
| 7 | 43 | 35 | 30 | 27 | 42 | 35 | 30 | 27 | 34 | 30 | 26 | 33 | 29 | 26 | 32 | 29 | 26 | 25 |
| 8 | 40 | 32 | 27 | 23 | 39 | 31 | 26 | 23 | 30 | 26 | 23 | 30 | 26 | 23 | 29 | 25 | 23 | 22 |
| 9 | 36 | 28 | 23 | 20 | 36 | 28 | 23 | 20 | 27 | 23 | 20 | 27 | 23 | 20 | 26 | 22 | 20 | 19 |
| 10 | 34 | 25 | 21 | 17 | 33 | 25 | 20 | 17 | 25 | 20 | 17 | 24 | 20 | 17 | 23 | 20 | 17 | 16 |

CANDELA DISTRIBUTION

| | |
|----|-----|
| | 0.0 |
| 0 | 277 |
| 5 | 280 |
| 10 | 284 |
| 15 | 294 |
| 20 | 367 |
| 25 | 422 |
| 30 | 435 |
| 35 | 428 |
| 40 | 387 |
| 45 | 320 |
| 50 | 256 |
| 55 | 192 |
| 60 | 126 |
| 65 | 65 |
| 70 | 28 |
| 75 | 4 |
| 80 | 0 |
| 85 | 0 |
| 90 | 0 |

ZONAL LUMEN SUMMARY

| | |
|--------|------|
| 0- 5 | 7. |
| 5- 10 | 20. |
| 10- 15 | 34. |
| 15- 20 | 52. |
| 20- 25 | 85. |
| 25- 30 | 109. |
| 30- 35 | 128. |
| 35- 40 | 138. |
| 40- 45 | 133. |
| 45- 50 | 114. |
| 50- 55 | 98. |
| 55- 60 | 74. |
| 60- 65 | 45. |
| 65- 70 | 22. |
| 70- 75 | 7. |
| 75- 80 | 0. |
| 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) 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. 2) THIS TEST WAS CONDUCTED IN A CONTROLLED LABORATORY ENVIRONMENT, FIELD PERFORMANCE MAY DIFFER.



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VISUAL COMFORT PROBABILITY TABLE

RATED LUMENS PER LAMP 1710.

| 100. FC. ROOM | | REFLECTANCES 80/50/20 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 | 27 | 20 | 18 | 22 | 27 | 20 | 18 | 22 |
| 20 | 30 | 27 | 24 | 17 | 17 | 27 | 24 | 17 | 17 |
| 20 | 40 | 27 | 24 | 21 | 17 | 27 | 24 | 21 | 17 |
| 20 | 60 | 27 | 24 | 21 | 21 | 27 | 24 | 21 | 21 |
| | | | | | | | | | |
| 30 | 20 | 33 | 24 | 19 | 22 | 33 | 24 | 19 | 22 |
| 30 | 30 | 33 | 28 | 19 | 17 | 33 | 28 | 19 | 17 |
| 30 | 40 | 34 | 28 | 23 | 18 | 34 | 28 | 23 | 18 |
| 30 | 60 | 34 | 28 | 23 | 21 | 34 | 28 | 23 | 21 |
| 30 | 80 | 34 | 28 | 23 | 21 | 34 | 28 | 23 | 21 |
| | | | | | | | | | |
| 40 | 20 | 36 | 29 | 23 | 23 | 36 | 29 | 23 | 23 |
| 40 | 30 | 33 | 32 | 22 | 19 | 33 | 32 | 22 | 19 |
| 40 | 40 | 34 | 32 | 26 | 19 | 34 | 32 | 26 | 19 |
| 40 | 60 | 34 | 32 | 26 | 22 | 34 | 32 | 26 | 22 |
| 40 | 80 | 34 | 32 | 26 | 22 | 34 | 32 | 26 | 22 |
| 40 | 100 | 34 | 32 | 26 | 22 | 34 | 32 | 26 | 22 |
| | | | | | | | | | |
| 60 | 30 | 33 | 32 | 26 | 21 | 33 | 32 | 26 | 21 |
| 60 | 40 | 33 | 32 | 30 | 21 | 33 | 32 | 30 | 21 |
| 60 | 60 | 34 | 32 | 30 | 25 | 34 | 32 | 30 | 25 |
| 60 | 80 | 34 | 32 | 30 | 25 | 34 | 32 | 30 | 25 |
| 60 | 100 | 34 | 32 | 30 | 25 | 34 | 32 | 30 | 25 |
| | | | | | | | | | |
| 100 | 40 | 34 | 32 | 30 | 26 | 34 | 32 | 30 | 26 |
| 100 | 60 | 34 | 32 | 30 | 29 | 34 | 32 | 30 | 29 |
| 100 | 80 | 34 | 32 | 30 | 28 | 34 | 32 | 30 | 28 |
| 100 | 100 | 34 | 32 | 30 | 28 | 34 | 32 | 30 | 28 |

THIS TABLE WAS CALCULATED ACCORDING TO IESNA LM-42-72. THE VCP CALCULATION PROCEDURE IS MOST ACCURATE FOR LUMINAIRES THAT EXHIBIT THE FOLLOWING CHARACTERISTICS. 1). LUMINAIRE IS RELATIVELY CONSISTANT IN LUMINANCE 2). LUMINAIRE HAS WELL-DEFINED LUMINOUS EDGES AND 3). LUMINAIRE UTILIZES FLUORESCENT LAMPS. CAUTION SHOULD BE USED WHEN APPLYING VCP VALUES BASED ON LUMINAIRES THAT DO NOT CONFORM TO THE ABOVE CONDITIONS.



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LTL TEST #06652

CIRCLE-OF-LIGHT

| Ft below | FC nadir | Dia @ 50% |
|-------------|-------------|--------------|
| 6.0 | 7.7 | 11.2 |
| 8.0 | 4.3 | 14.9 |
| 10.0 | 2.8 | 18.6 |
| 12.0 | 1.9 | 22.3 |
| 14.0 | 1.4 | 26.0 |
| 16.0 | 1.1 | 29.7 |

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