



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 06132

DATE: 09-11-2001

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 7VF1X42E1-7000SCL

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

LAMP: ONE PHILIPS PL-T 42W/30/4P/ALTO RATED AT 3200 LUMENS.

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

MOUNTING: RECESSED

#06132

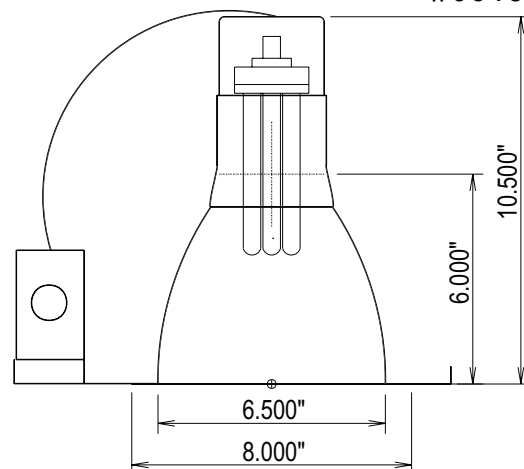
TOTAL INPUT WATTS = 36.2 AT 120.0 VOLTS

CANDELA DISTRIBUTION

| | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 |
|----|------|------|------|------|------|
| 0 | 1052 | 1052 | 1052 | 1052 | 1052 |
| 5 | 1207 | 1191 | 1149 | 1085 | 1072 |
| 15 | 1024 | 1042 | 970 | 997 | 1010 |
| 25 | 840 | 869 | 824 | 852 | 859 |
| 35 | 490 | 500 | 486 | 491 | 499 |
| 45 | 141 | 139 | 121 | 135 | 142 |
| 55 | 1 | 1 | 1 | 1 | 1 |
| 65 | 0 | 0 | 0 | 0 | 0 |
| 75 | 0 | 0 | 0 | 0 | 0 |
| 85 | 0 | 0 | 0 | 0 | 0 |
| 90 | 0 | 0 | 0 | 0 | 0 |

FLUX

| |
|-----|
| 109 |
| 284 |
| 390 |
| 300 |
| 107 |
| 5 |
| 0 |
| 0 |
| 0 |
| 0 |



ZONAL LUMEN SUMMARY

| ZONE | LUMENS | %LAMP | %FIXT |
|--------|--------|-------|-------|
| 0- 30 | 783 | 24.5 | 65.5 |
| 0- 40 | 1083 | 33.8 | 90.6 |
| 0- 60 | 1195 | 37.3 | 100.0 |
| 0- 90 | 1195 | 37.3 | 100.0 |
| 90-180 | 0 | 0.0 | 0.0 |
| 0-180 | 1195 | 37.3 | 100.0 |

TOTAL LUMINAIRE EFFICIENCY:

37.3%

CIE TYPE: DIRECT

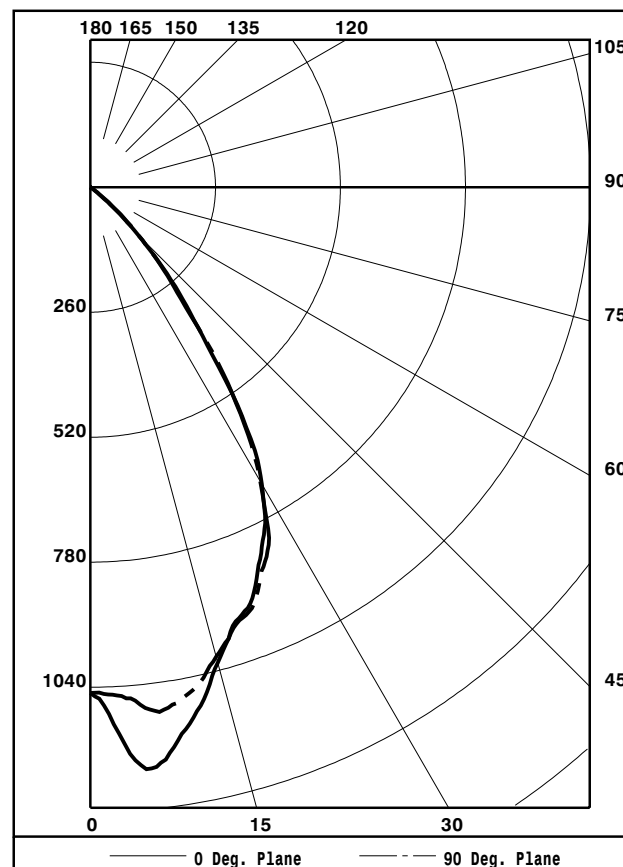
PLANE: 0-DEG 90-DEG

SPACING CRITERIA: 1.1 1.1

LUMINOUS DIAMETER: 6.500

LUMINANCE IN CANDELA PER SQUARE METER

| ANGLE IN DEG | AVERAGE 0-DEG | AVERAGE 45-DEG | AVERAGE 90-DEG |
|-----------------|------------------|-------------------|-------------------|
| 0 | 49136. | 49136. | 49136. |
| 45 | 9314. | 7993. | 9380. |
| 55 | 81. | 81. | 81. |
| 65 | 0. | 0. | 0. |
| 75 | 0. | 0. | 0. |
| 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 | 44 | 44 | 44 | 44 | 43 | 43 | 43 | 43 | 41 | 41 | 41 | 40 | 40 | 40 | 38 | 38 | 38 | 37 | 37 | 37 | 37 |
| 1 | 43 | 42 | 41 | 40 | 42 | 41 | 40 | 39 | 39 | 39 | 38 | 38 | 37 | 37 | 37 | 36 | 36 | 35 | 35 | 35 | 35 |
| 2 | 40 | 39 | 37 | 36 | 40 | 38 | 37 | 36 | 37 | 36 | 35 | 36 | 35 | 34 | 35 | 34 | 33 | 33 | 33 | 33 | 33 |
| 3 | 39 | 36 | 34 | 33 | 38 | 36 | 34 | 33 | 35 | 33 | 32 | 34 | 33 | 32 | 33 | 32 | 31 | 31 | 31 | 31 | 31 |
| 4 | 37 | 34 | 32 | 30 | 36 | 33 | 31 | 30 | 33 | 31 | 30 | 32 | 30 | 29 | 31 | 30 | 29 | 28 | 28 | 28 | 28 |
| 5 | 35 | 32 | 29 | 28 | 34 | 31 | 29 | 28 | 30 | 29 | 27 | 30 | 28 | 27 | 29 | 28 | 27 | 26 | 26 | 26 | 26 |
| 6 | 33 | 30 | 27 | 26 | 32 | 29 | 27 | 26 | 29 | 27 | 26 | 28 | 27 | 25 | 28 | 26 | 25 | 25 | 25 | 25 | 25 |
| 7 | 31 | 28 | 25 | 24 | 31 | 27 | 25 | 24 | 27 | 25 | 24 | 27 | 25 | 24 | 26 | 25 | 23 | 23 | 23 | 23 | 23 |
| 8 | 29 | 26 | 23 | 22 | 29 | 26 | 23 | 22 | 25 | 23 | 22 | 25 | 23 | 22 | 24 | 23 | 22 | 21 | 21 | 21 | 21 |
| 9 | 28 | 24 | 22 | 20 | 27 | 24 | 21 | 20 | 23 | 21 | 20 | 23 | 21 | 20 | 23 | 21 | 20 | 19 | 19 | 19 | 19 |
| 10 | 26 | 22 | 20 | 18 | 26 | 22 | 20 | 18 | 22 | 20 | 18 | 21 | 20 | 18 | 21 | 19 | 18 | 18 | 18 | 18 | 18 |

CANDELA DISTRIBUTION

| | | | | | |
|----|------|------|------|------|------|
| | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 |
| 0 | 1052 | 1052 | 1052 | 1052 | 1052 |
| 5 | 1207 | 1191 | 1149 | 1085 | 1072 |
| 10 | 1145 | 1169 | 1125 | 1069 | 1083 |
| 15 | 1024 | 1042 | 970 | 997 | 1010 |
| 20 | 938 | 961 | 885 | 929 | 947 |
| 25 | 840 | 869 | 824 | 852 | 859 |
| 30 | 712 | 729 | 702 | 701 | 706 |
| 35 | 490 | 500 | 486 | 491 | 499 |
| 40 | 287 | 286 | 261 | 262 | 271 |
| 45 | 141 | 139 | 121 | 135 | 142 |
| 50 | 37 | 36 | 34 | 45 | 51 |
| 55 | 1 | 1 | 1 | 1 | 1 |
| 60 | 0 | 0 | 0 | 0 | 0 |
| 65 | 0 | 0 | 0 | 0 | 0 |
| 70 | 0 | 0 | 0 | 0 | 0 |
| 75 | 0 | 0 | 0 | 0 | 0 |
| 80 | 0 | 0 | 0 | 0 | 0 |
| 85 | 0 | 0 | 0 | 0 | 0 |
| 90 | 0 | 0 | 0 | 0 | 0 |

ZONAL LUMEN SUMMARY

| | |
|--------|------|
| 0- 5 | 26. |
| 5- 10 | 83. |
| 10- 15 | 127. |
| 15- 20 | 158. |
| 20- 25 | 189. |
| 25- 30 | 201. |
| 30- 35 | 180. |
| 35- 40 | 120. |
| 40- 45 | 74. |
| 45- 50 | 33. |
| 50- 55 | 5. |
| 55- 60 | 0. |
| 60- 65 | 0. |
| 65- 70 | 0. |
| 70- 75 | 0. |
| 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) 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 3200.

| 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 | 99 | 84 | 91 | 76 | 98 | 86 | 91 | 75 |
| 20 | 30 | 99 | 85 | 91 | 76 | 98 | 86 | 91 | 76 |
| 20 | 40 | 99 | 85 | 92 | 76 | 98 | 86 | 91 | 76 |
| 20 | 60 | 99 | 85 | 92 | 76 | 98 | 86 | 91 | 76 |
| | | | | | | | | | |
| 30 | 20 | 99 | 85 | 91 | 79 | 98 | 86 | 91 | 76 |
| 30 | 30 | 99 | 85 | 92 | 79 | 98 | 86 | 91 | 76 |
| 30 | 40 | 99 | 85 | 92 | 79 | 98 | 86 | 91 | 76 |
| 30 | 60 | 99 | 85 | 92 | 80 | 98 | 86 | 92 | 76 |
| 30 | 80 | 99 | 85 | 92 | 80 | 98 | 86 | 92 | 77 |
| | | | | | | | | | |
| 40 | 20 | 99 | 85 | 92 | 79 | 98 | 86 | 91 | 76 |
| 40 | 30 | 99 | 85 | 92 | 79 | 98 | 86 | 91 | 76 |
| 40 | 40 | 99 | 85 | 92 | 80 | 98 | 86 | 92 | 76 |
| 40 | 60 | 99 | 85 | 92 | 80 | 98 | 86 | 92 | 77 |
| 40 | 80 | 99 | 86 | 92 | 80 | 98 | 87 | 92 | 77 |
| 40 | 100 | 99 | 86 | 92 | 80 | 98 | 87 | 92 | 77 |
| | | | | | | | | | |
| 60 | 30 | 99 | 85 | 92 | 80 | 98 | 86 | 92 | 76 |
| 60 | 40 | 99 | 85 | 92 | 80 | 98 | 87 | 92 | 77 |
| 60 | 60 | 99 | 86 | 92 | 80 | 98 | 87 | 92 | 77 |
| 60 | 80 | 99 | 86 | 92 | 80 | 98 | 87 | 92 | 77 |
| 60 | 100 | 99 | 86 | 92 | 80 | 98 | 87 | 92 | 77 |
| | | | | | | | | | |
| 100 | 40 | 99 | 86 | 92 | 80 | 98 | 87 | 92 | 77 |
| 100 | 60 | 99 | 86 | 92 | 80 | 98 | 87 | 92 | 77 |
| 100 | 80 | 99 | 86 | 92 | 80 | 98 | 87 | 92 | 77 |
| 100 | 100 | 99 | 86 | 92 | 80 | 98 | 87 | 92 | 77 |



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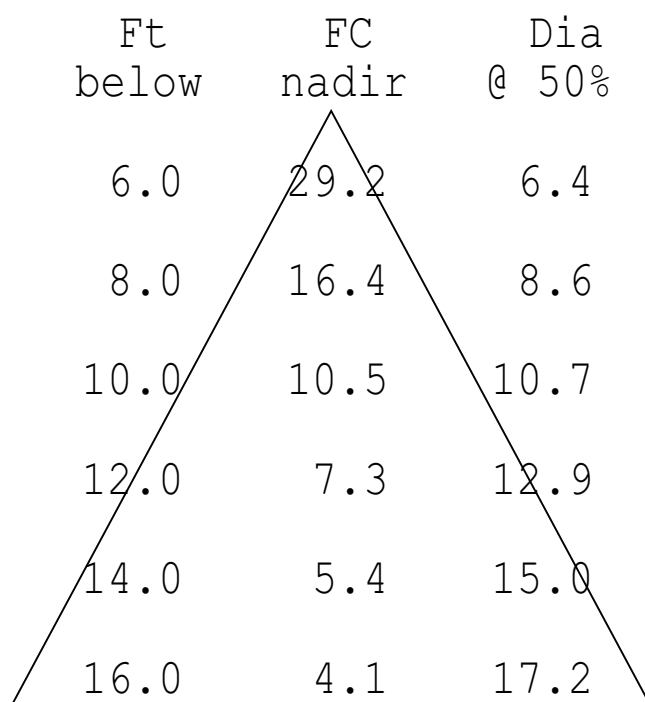


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CIRCLE-OF-LIGHT



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