



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

905 Harrison Street · Allentown, PA 18103 · (610) 770-1044 · Fax (610) 770-8912 · ltl1@thebridgeworks.com

LTL NUMBER: 05304

DATE: 08-04-2000

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: A7VF118E-07000SCL

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

LAMP: ONE SYLVANIA CF18DD/E/835 RATED AT 1250 LUMENS.

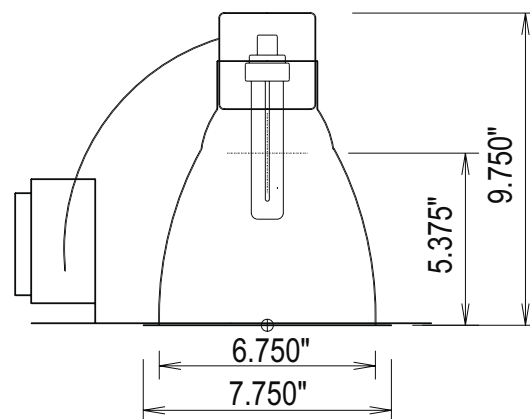
BALLAST: ONE ADVANCE ICF-2S18-H1-LD

MOUNTING: RECESSED

TOTAL INPUT WATTS = 19.5 AT 120.0 VOLTS

#05304

| DEG | CANDELA | LUMENS |
|-----|---------|--------|
| 0 | 592 | |
| 5 | 607 | 56 |
| 15 | 451 | 130 |
| 25 | 446 | 204 |
| 35 | 309 | 193 |
| 45 | 172 | 129 |
| 55 | 42 | 41 |
| 65 | 0 | 1 |
| 75 | 0 | 0 |
| 85 | 0 | 0 |
| 90 | 0 | |



ZONAL LUMEN SUMMARY

| ZONE | LUMENS | %LAMP | %FIXT |
|--------|--------|-------|-------|
| 0- 30 | 389 | 31.1 | 51.7 |
| 0- 40 | 582 | 46.5 | 77.2 |
| 0- 60 | 752 | 60.1 | 99.8 |
| 0- 90 | 753 | 60.2 | 100.0 |
| 90-180 | 0 | 0.0 | 0.0 |
| 0-180 | 753 | 60.2 | 100.0 |

TOTAL LUMINAIRE EFFICIENCY: 60.2%

CIE TYPE: DIRECT

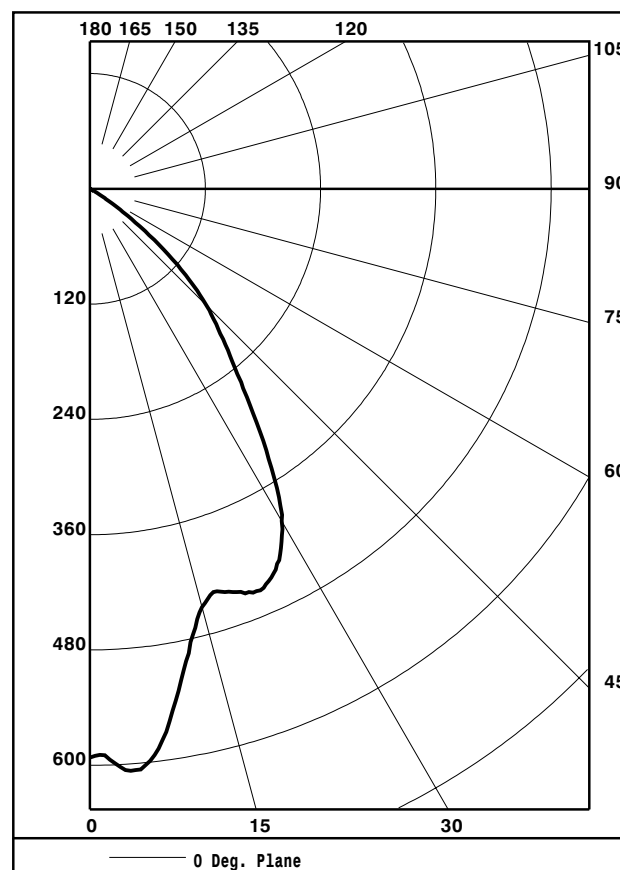
LUMINAIRE SPACING CRITERION = 1.0

LUMINOUS DIAMETER: 6.750

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE AVERAGE

| IN DEG | |
|--------|--------|
| 0 | 25640. |
| 45 | 10535. |
| 55 | 3171. |
| 65 | 0. |
| 75 | 0. |
| 85 | 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 | 0 |
| 0 | 72 | 72 | 72 | 72 | 70 | 70 | 70 | 70 | 67 | 67 | 67 | 64 | 64 | 64 | 62 | 62 | 62 | 60 |
| 1 | 68 | 66 | 65 | 63 | 67 | 65 | 64 | 62 | 63 | 62 | 61 | 60 | 60 | 59 | 58 | 58 | 57 | 56 |
| 2 | 65 | 61 | 59 | 57 | 63 | 60 | 58 | 56 | 58 | 57 | 55 | 57 | 55 | 54 | 55 | 54 | 53 | 52 |
| 3 | 61 | 57 | 54 | 51 | 60 | 56 | 53 | 51 | 54 | 52 | 50 | 53 | 51 | 49 | 51 | 50 | 48 | 47 |
| 4 | 57 | 52 | 49 | 46 | 56 | 52 | 48 | 46 | 50 | 47 | 45 | 49 | 47 | 45 | 48 | 46 | 44 | 43 |
| 5 | 54 | 48 | 44 | 42 | 53 | 48 | 44 | 41 | 47 | 43 | 41 | 46 | 43 | 41 | 45 | 42 | 40 | 39 |
| 6 | 51 | 45 | 41 | 38 | 50 | 44 | 40 | 38 | 43 | 40 | 37 | 42 | 39 | 37 | 42 | 39 | 37 | 36 |
| 7 | 47 | 41 | 37 | 34 | 47 | 41 | 37 | 34 | 40 | 36 | 34 | 39 | 36 | 34 | 38 | 36 | 34 | 33 |
| 8 | 44 | 38 | 34 | 31 | 43 | 37 | 33 | 31 | 37 | 33 | 31 | 36 | 33 | 30 | 35 | 32 | 30 | 29 |
| 9 | 41 | 34 | 30 | 28 | 40 | 34 | 30 | 27 | 33 | 30 | 27 | 33 | 30 | 27 | 32 | 29 | 27 | 26 |
| 10 | 38 | 32 | 28 | 25 | 38 | 31 | 27 | 25 | 31 | 27 | 25 | 30 | 27 | 25 | 30 | 27 | 25 | 24 |

CANDELA DISTRIBUTION

| | |
|----|-----|
| | 0.0 |
| 0 | 592 |
| 5 | 607 |
| 10 | 530 |
| 15 | 451 |
| 20 | 447 |
| 25 | 446 |
| 30 | 399 |
| 35 | 309 |
| 40 | 227 |
| 45 | 172 |
| 50 | 106 |
| 55 | 42 |
| 60 | 7 |
| 65 | 0 |
| 70 | 0 |
| 75 | 0 |
| 80 | 0 |
| 85 | 0 |
| 90 | 0 |

ZONAL LUMEN SUMMARY

| | |
|--------|------|
| 0- 5 | 14. |
| 5- 10 | 41. |
| 10- 15 | 57. |
| 15- 20 | 72. |
| 20- 25 | 95. |
| 25- 30 | 109. |
| 30- 35 | 105. |
| 35- 40 | 87. |
| 40- 45 | 73. |
| 45- 50 | 56. |
| 50- 55 | 31. |
| 55- 60 | 9. |
| 60- 65 | 1. |
| 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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LTL TEST #05304

CIRCLE-OF-LIGHT

| Ft below | FC nadir | Dia @ 50% |
|-------------|-------------|--------------|
| 6.0 | 16.4 | 6.3 |
| 8.0 | 9.3 | 8.4 |
| 10.0 | 5.9 | 10.5 |
| 12.0 | 4.1 | 12.6 |
| 14.0 | 3.0 | 14.7 |
| 16.0 | 2.3 | 16.8 |

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