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THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

INDEPENDENT TESTING LABORATORIES, INC.
3386 LONGHORN ROAD, BOULDER, CO 80302 USA

PHONE: (303)442-1255 • FAX: (303)449-5274 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

REPORT NUMBER: ITL61276

DATE: 11/10/08

PREPARED FOR: SCOTT ARCHITECTURAL LIGHTING

LUMINAIRE: FABRICATED WHITE PAINTED METAL BALLAST HOUSING, SIX FORMED WHITE PAINTED METAL SOCKET MOUNTING BRACKETS, TRANSLUCENT WHITE SEMI-HEMISPHERICAL FROSTED PLASTIC DIFFUSER, FABRICATED WHITE PAINTED METAL LENS MOUNTING ASSEMBLY, FABRICATED WHITE PAINTED METAL MOUNTING STEM, DIFFUSER FROSTED SIDE OUT, OPEN TOP.

LAMPS: SIX 42-WATT TRIPLE TWIN TUBE COMPACT FLUORESCENTS, SYLVANIA CF42DT/E/IN/827/ECO, HORIZONTAL POSITION.

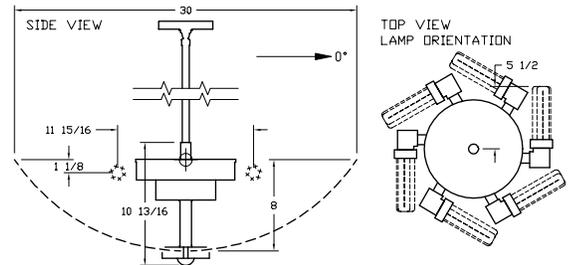
BALLASTS: THREE ADVANCE ICF-2S42-M2-LD

MOUNTING: PENDANT

TOTAL REFLECTANCE OF PAINT = 85.2 %

TOTAL INPUT WATTS = 315.4 AT 120.0 VOLTS
REPORT IS BASED ON 3200 LUMENS PER LAMP.

** (explanation follows) **



CANDELA DISTRIBUTION

| | | | | | |
|-----|------|------|------|------|------|
| | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 |
| 0 | 1016 | 1016 | 1016 | 1016 | 1016 |
| 5 | 1001 | 1009 | 1011 | 1011 | 1011 |
| 15 | 969 | 978 | 980 | 982 | 982 |
| 25 | 906 | 917 | 917 | 921 | 918 |
| 35 | 812 | 822 | 823 | 829 | 828 |
| 45 | 695 | 706 | 706 | 712 | 711 |
| 55 | 569 | 575 | 574 | 581 | 581 |
| 65 | 440 | 448 | 446 | 451 | 454 |
| 75 | 321 | 327 | 328 | 329 | 329 |
| 85 | 223 | 229 | 227 | 230 | 228 |
| 90 | 183 | 185 | 188 | 188 | 190 |
| 95 | 374 | 408 | 386 | 422 | 369 |
| 105 | 1299 | 1302 | 1325 | 1346 | 1316 |
| 115 | 1863 | 1889 | 1899 | 1921 | 1887 |
| 125 | 2436 | 2389 | 2414 | 2454 | 2398 |
| 135 | 2917 | 2849 | 2883 | 2943 | 2841 |
| 145 | 3331 | 3263 | 3300 | 3344 | 3271 |
| 155 | 3528 | 3478 | 3516 | 3558 | 3485 |
| 165 | 3659 | 3634 | 3658 | 3691 | 3650 |
| 175 | 3635 | 3643 | 3651 | 3667 | 3673 |
| 180 | 3657 | 3657 | 3657 | 3657 | 3657 |

FLUX

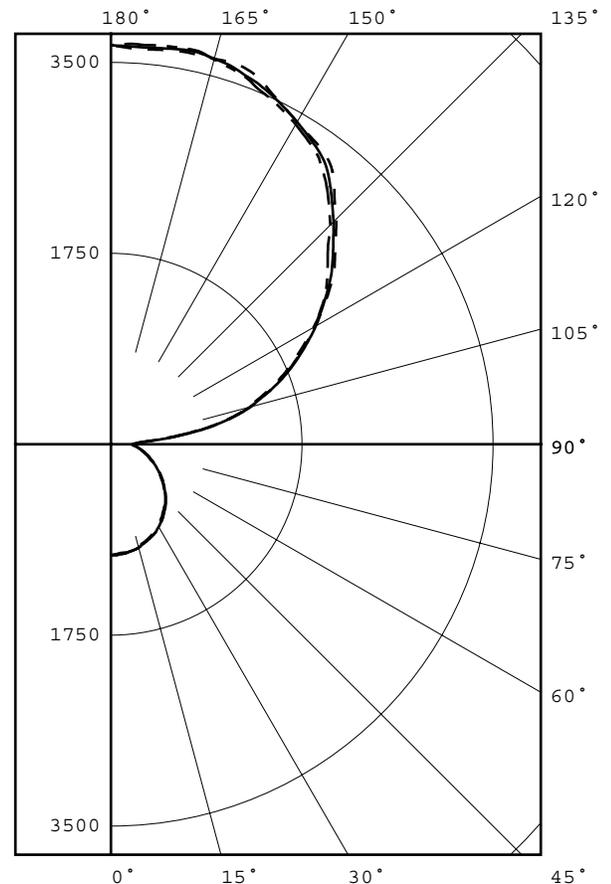
| |
|------|
| 96 |
| 276 |
| 423 |
| 516 |
| 546 |
| 518 |
| 441 |
| 349 |
| 248 |
| 491 |
| 1382 |
| 1878 |
| 2165 |
| 2230 |
| 2066 |
| 1624 |
| 1037 |
| 349 |

ZONAL LUMEN SUMMARY

| ZONE | LUMENS | %LAMP | %FIXT |
|--------|--------|-------|-------|
| 0- 30 | 795 | 4.1 | 4.8 |
| 0- 40 | 1311 | 6.8 | 7.9 |
| 0- 60 | 2375 | 12.4 | 14.3 |
| 0- 90 | 3413 | 17.8 | 20.5 |
| 90-120 | 3751 | 19.5 | 22.5 |
| 90-130 | 5915 | 30.8 | 35.6 |
| 90-150 | 10211 | 53.2 | 61.4 |
| 90-180 | 13221 | 68.9 | 79.5 |
| 0-180 | 16634 | 86.6 | 100.0 |

TOTAL LUMINAIRE EFFICIENCY = 86.6 %

CIE TYPE - SEMI-INDIRECT



LEGEND:

0-deg: - - - - -
45-deg: _____
90-deg: - . - . - .

Checked B. HYRE

Approved R. BEATTIE



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CANDELA DISTRIBUTION

| CANDELA DISTRIBUTION | | | | | | ZONAL LUMEN SUMMARY | |
|----------------------|------|------|------|------|------|---------------------|-------|
| | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 | | |
| 0.0 | 1016 | 1016 | 1016 | 1016 | 1016 | 0- 5 | 24. |
| 5.0 | 1001 | 1009 | 1011 | 1011 | 1011 | 5- 10 | 72. |
| 10.0 | 990 | 996 | 997 | 999 | 999 | 10- 15 | 118. |
| 15.0 | 969 | 978 | 980 | 982 | 982 | 15- 20 | 159. |
| 20.0 | 940 | 948 | 949 | 952 | 949 | 20- 25 | 195. |
| 25.0 | 906 | 917 | 917 | 921 | 918 | 25- 30 | 227. |
| 30.0 | 863 | 875 | 874 | 880 | 876 | 30- 35 | 250. |
| 35.0 | 812 | 822 | 823 | 829 | 828 | 35- 40 | 265. |
| 40.0 | 757 | 766 | 765 | 772 | 771 | 40- 45 | 273. |
| 45.0 | 695 | 706 | 706 | 712 | 711 | 45- 50 | 273. |
| 50.0 | 633 | 642 | 642 | 649 | 645 | 50- 55 | 267. |
| 55.0 | 569 | 575 | 574 | 581 | 581 | 55- 60 | 251. |
| 60.0 | 502 | 509 | 508 | 513 | 514 | 60- 65 | 231. |
| 65.0 | 440 | 448 | 446 | 451 | 454 | 65- 70 | 209. |
| 70.0 | 376 | 382 | 381 | 386 | 386 | 70- 75 | 187. |
| 75.0 | 321 | 327 | 328 | 329 | 329 | 75- 80 | 162. |
| 80.0 | 271 | 278 | 276 | 279 | 279 | 80- 85 | 137. |
| 85.0 | 223 | 229 | 227 | 230 | 228 | 85- 90 | 112. |
| 90.0 | 183 | 185 | 188 | 188 | 190 | 90- 95 | 126. |
| 95.0 | 374 | 408 | 386 | 422 | 369 | 95-100 | 364. |
| 100.0 | 932 | 928 | 929 | 968 | 914 | 100-105 | 616. |
| 105.0 | 1299 | 1302 | 1325 | 1346 | 1316 | 105-110 | 766. |
| 110.0 | 1590 | 1603 | 1622 | 1640 | 1622 | 110-115 | 890. |
| 115.0 | 1863 | 1889 | 1899 | 1921 | 1887 | 115-120 | 988. |
| 120.0 | 2141 | 2147 | 2168 | 2193 | 2158 | 120-125 | 1059. |
| 125.0 | 2436 | 2389 | 2414 | 2454 | 2398 | 125-130 | 1105. |
| 130.0 | 2679 | 2599 | 2652 | 2716 | 2591 | 130-135 | 1117. |
| 135.0 | 2917 | 2849 | 2883 | 2943 | 2841 | 135-140 | 1113. |
| 140.0 | 3176 | 3085 | 3121 | 3189 | 3076 | 140-145 | 1078. |
| 145.0 | 3331 | 3263 | 3300 | 3344 | 3271 | 145-150 | 988. |
| 150.0 | 3412 | 3372 | 3411 | 3450 | 3384 | 150-155 | 876. |
| 155.0 | 3528 | 3478 | 3516 | 3558 | 3485 | 155-160 | 748. |
| 160.0 | 3655 | 3570 | 3599 | 3654 | 3586 | 160-165 | 601. |
| 165.0 | 3659 | 3634 | 3658 | 3691 | 3650 | 165-170 | 436. |
| 170.0 | 3657 | 3663 | 3675 | 3690 | 3690 | 170-175 | 262. |
| 175.0 | 3635 | 3643 | 3651 | 3667 | 3673 | 175-180 | 87. |
| 180.0 | 3657 | 3657 | 3657 | 3657 | 3657 | | |



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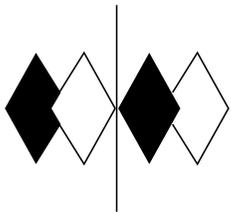
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | |
| 0 | 87 | 87 | 87 | 87 | 77 | 77 | 77 | 77 | 58 | 58 | 58 | 41 | 41 | 41 | 25 | 25 | 25 | 18 |
| 1 | 78 | 75 | 71 | 68 | 69 | 66 | 63 | 61 | 50 | 48 | 46 | 35 | 34 | 33 | 21 | 21 | 20 | 14 |
| 2 | 71 | 65 | 60 | 55 | 63 | 57 | 53 | 49 | 43 | 40 | 38 | 30 | 29 | 27 | 18 | 17 | 17 | 11 |
| 3 | 65 | 57 | 51 | 46 | 57 | 50 | 45 | 41 | 38 | 34 | 32 | 27 | 24 | 23 | 16 | 15 | 14 | 9 |
| 4 | 59 | 50 | 43 | 38 | 52 | 44 | 39 | 34 | 34 | 30 | 27 | 24 | 21 | 19 | 14 | 13 | 12 | 8 |
| 5 | 54 | 44 | 37 | 32 | 47 | 39 | 34 | 29 | 30 | 26 | 23 | 21 | 18 | 16 | 13 | 11 | 10 | 7 |
| 6 | 50 | 40 | 33 | 28 | 44 | 35 | 29 | 25 | 27 | 23 | 20 | 19 | 16 | 14 | 12 | 10 | 9 | 6 |
| 7 | 46 | 35 | 29 | 24 | 40 | 32 | 26 | 22 | 24 | 20 | 17 | 17 | 14 | 12 | 11 | 9 | 8 | 5 |
| 8 | 42 | 32 | 26 | 21 | 37 | 29 | 23 | 19 | 22 | 18 | 15 | 16 | 13 | 11 | 10 | 8 | 7 | 5 |
| 9 | 39 | 29 | 23 | 19 | 35 | 26 | 20 | 17 | 20 | 16 | 13 | 14 | 12 | 10 | 9 | 7 | 6 | 4 |
| 10 | 37 | 26 | 20 | 16 | 32 | 24 | 18 | 15 | 18 | 14 | 12 | 13 | 10 | 9 | 8 | 7 | 6 | 4 |

ALL CANDELA, LUMENS, LUMINANCE, COEFFICIENT OF UTILIZATION AND VCP VALUES IN THIS REPORT ARE BASED ON RELATIVE PHOTOMETRY WHICH ASSUMES A BALLAST FACTOR OF 1.000. ANY CALCULATIONS PREPARED FROM THESE DATA SHOULD INCLUDE AN APPROPRIATE BALLAST FACTOR.



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ADDENDUM

The compact fluorescent lamps of the type used in this report may require special attention in photometry and luminaire application. Specifically, the lamps may generate lower flux output when operated in the horizontal position than when operated in the vertical base-up position. Unfortunately, at the time of this report, only the vertical flux output (lumen) rating is available from the lamp manufacturer. It is critical to note that if the lamp produces less lumens when in a horizontal position than when it is in a vertical position, the horizontal lamp calibration will yield higher luminaire candela and efficiency than a vertical lamp calibration. When applying the vertical lamp lumen rating to a report for a luminaire with a horizontal lamp(s) and using a horizontal lamp calibration, the report will show higher candela values than what the luminaire actually produced (since a horizontal lamp produces lower flux). For a report which was generated using a horizontal lamp calibration, any application calculations should use the actual flux output (lumens) from a horizontal lamp -- at this time, no such published lumen figures are available. The published lamp lumen rating given on this report is for a vertical base-up lamp. The lamp calibration for this report was performed with the lamp(s) in the same orientation as when the lamp(s) is/are in the luminaire.

CFL.DIS