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THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

NVLAP
NVLAP LAB CODE: 200925-0

INDEPENDENT TESTING LABORATORIES, INC.
4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

PHONE: (303) 442-1255 • FAX: (970) 535-3114 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

REPORT NUMBER: ITL85172

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ISSUE DATE: 09/16/15

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: S11-LED-MP-4ft-V-8-35

LUMINAIRE: FABRICATED METAL HOUSING, FABRICATED WHITE PAINTED METAL

CIRCUIT BOARD/LENS MOUNTING ASSEMBLY, 1 WHITE CIRCUIT BOARD WITH 80
LEDS, FROSTED HOLOGRAPHIC FLAT PLASTIC LENS. LENS FROSTED SIDE OUT.

LAMPS: EIGHTY WHITE LIGHT EMITTING DIODES (LEDS), TILTED 30-DEGREES FROM
VERTICAL BASE-DOWN POSITION.

INPUT ELECTRICAL: 277.0 VOLTS, 21.2 WATTS, 0.0832 AMPS

MOUNTING: SURFACE

LED DRIVER: OSRAM OT30W/PRG1050C/UNV/DIM/L, DRIVER
HAS MULTIPLE LEADS, ONLY LINE INPUT AND LED
OUTPUT LEADS CONNECTED FOR THIS TEST. CLIENT
STATES DRIVER PROGRAMMED FOR 700mA OUTPUT.

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
AT RATED INPUT VOLTAGE (277VAC, 60Hz) TO
THE DRIVER.

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 35.0 FEET



| CANDELA DISTRIBUTION | | | | | | FLUX |
|----------------------|-----|------|------|-------|-------|------|
| | 0.0 | 45.0 | 90.0 | 135.0 | 180.0 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15 | 0 | 0 | 0 | 0 | 0 | 0 |
| 25 | 0 | 0 | 0 | 0 | 0 | 0 |
| 35 | 0 | 0 | 0 | 0 | 0 | 0 |
| 45 | 0 | 0 | 0 | 0 | 0 | 0 |
| 55 | 0 | 0 | 0 | 0 | 0 | 0 |
| 65 | 28 | 0 | 0 | 0 | 0 | 4 |
| 75 | 90 | 34 | 0 | 0 | 0 | 22 |
| 85 | 228 | 135 | 0 | 0 | 0 | 69 |
| 90 | 318 | 197 | 0 | 0 | 0 | |
| 95 | 407 | 266 | 24 | 0 | 0 | 136 |
| 105 | 592 | 417 | 99 | 0 | 0 | 213 |
| 115 | 740 | 567 | 203 | 4 | 0 | 283 |
| 125 | 839 | 692 | 327 | 48 | 13 | 335 |
| 135 | 898 | 781 | 459 | 154 | 58 | 361 |
| 145 | 925 | 835 | 580 | 292 | 181 | 353 |
| 155 | 923 | 860 | 677 | 451 | 356 | 302 |
| 165 | 889 | 852 | 739 | 604 | 543 | 205 |
| 175 | 823 | 809 | 769 | 727 | 710 | 73 |
| 180 | 773 | 773 | 773 | 773 | 773 | |

| ZONAL LUMEN SUMMARY | | |
|---------------------|--------|-------|
| ZONE | LUMENS | %FIXT |
| 0- 30 | 0 | 0.0 |
| 0- 40 | 0 | 0.0 |
| 0- 60 | 0 | 0.0 |
| 0- 90 | 96 | 4.1 |
| 90-120 | 632 | 26.8 |
| 90-130 | 967 | 41.1 |
| 90-150 | 1680 | 71.3 |
| 90-180 | 2260 | 95.9 |
| 0-180 | 2355 | 100.0 |

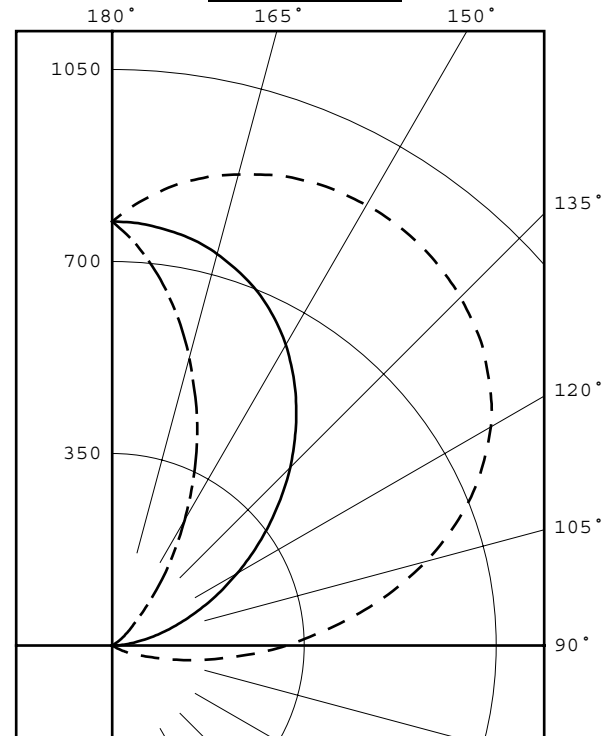
EFFICACY (277V) = 111.1 lm/W

EFFICACY (120V) = 120.2 lm/W **

** THE EFFICACY AT 120 VOLTS IS BASED ON THE
LUMENS FROM THIS REPORT AND THE WATTAGE
MEASURED AT 120 VOLTS FROM ITL REPORT
NUMBER ITL85172-THD.

CIE TYPE - INDIRECT

THIS REPORT IS BASED ON PUBLISHED INDUSTRY PROCEDURES. FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE.



LEGEND:
0-deg -----
90-deg =====
180-deg -----

Checked B. HYRE
Approved R. BEATTIE
Lighting Engineer



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CANDELA DISTRIBUTION

LATERAL ANGLE

| | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 | 112.5 | 135.0 | 157.5 | 180.0 |
|-------|-----|------|------|------|------|-------|-------|-------|-------|
| 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 25.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 30.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 35.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 40.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 45.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 50.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 55.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 60.0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 65.0 | 28 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 70.0 | 50 | 39 | 13 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75.0 | 90 | 75 | 34 | 0 | 0 | 0 | 0 | 0 | 0 |
| 80.0 | 153 | 135 | 79 | 11 | 0 | 0 | 0 | 0 | 0 |
| 85.0 | 228 | 205 | 135 | 44 | 0 | 0 | 0 | 0 | 0 |
| 90.0 | 318 | 286 | 197 | 85 | 0 | 0 | 0 | 0 | 0 |
| 95.0 | 407 | 370 | 266 | 133 | 24 | 0 | 0 | 0 | 0 |
| 100.0 | 503 | 458 | 340 | 187 | 56 | 0 | 0 | 0 | 0 |
| 105.0 | 592 | 545 | 417 | 247 | 99 | 6 | 0 | 0 | 0 |
| 110.0 | 672 | 625 | 494 | 313 | 147 | 28 | 0 | 0 | 0 |
| 115.0 | 740 | 695 | 567 | 378 | 203 | 67 | 4 | 0 | 0 |
| 120.0 | 797 | 754 | 633 | 447 | 263 | 113 | 24 | 0 | 0 |
| 125.0 | 839 | 802 | 692 | 513 | 327 | 164 | 48 | 21 | 13 |
| 130.0 | 874 | 840 | 741 | 575 | 393 | 222 | 96 | 41 | 33 |
| 135.0 | 898 | 869 | 781 | 632 | 459 | 283 | 154 | 77 | 58 |
| 140.0 | 915 | 888 | 812 | 678 | 521 | 350 | 220 | 135 | 110 |
| 145.0 | 925 | 901 | 835 | 719 | 580 | 419 | 292 | 207 | 181 |
| 150.0 | 927 | 907 | 851 | 752 | 633 | 488 | 370 | 289 | 264 |
| 155.0 | 923 | 905 | 860 | 776 | 677 | 554 | 451 | 378 | 356 |
| 160.0 | 911 | 896 | 860 | 791 | 712 | 613 | 531 | 471 | 451 |
| 165.0 | 889 | 880 | 852 | 799 | 739 | 667 | 604 | 560 | 543 |
| 170.0 | 862 | 855 | 834 | 798 | 758 | 712 | 671 | 643 | 632 |
| 175.0 | 823 | 819 | 809 | 790 | 769 | 748 | 727 | 714 | 710 |
| 180.0 | 773 | 773 | 773 | 773 | 773 | 773 | 773 | 773 | 773 |



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5-DEGREE
ZONAL LUMEN SUMMARY

| | |
|---------|-----|
| 0- 5 | 0 |
| 5- 10 | 0 |
| 10- 15 | 0 |
| 15- 20 | 0 |
| 20- 25 | 0 |
| 25- 30 | 0 |
| 30- 35 | 0 |
| 35- 40 | 0 |
| 40- 45 | 0 |
| 45- 50 | 0 |
| 50- 55 | 0 |
| 55- 60 | 0 |
| 60- 65 | 1 |
| 65- 70 | 3 |
| 70- 75 | 7 |
| 75- 80 | 15 |
| 80- 85 | 27 |
| 85- 90 | 42 |
| 90- 95 | 59 |
| 95-100 | 78 |
| 100-105 | 97 |
| 105-110 | 116 |
| 110-115 | 134 |
| 115-120 | 149 |
| 120-125 | 162 |
| 125-130 | 173 |
| 130-135 | 179 |
| 135-140 | 182 |
| 140-145 | 180 |
| 145-150 | 173 |
| 150-155 | 160 |
| 155-160 | 141 |
| 160-165 | 117 |
| 165-170 | 88 |
| 170-175 | 54 |
| 175-180 | 18 |

10-DEGREE
ZONAL LUMEN SUMMARY

| | |
|-------|------|
| 0- 10 | 0 |
| 0- 20 | 0 |
| 0- 30 | 0 |
| 0- 40 | 0 |
| 0- 50 | 0 |
| 0- 60 | 0 |
| 0- 70 | 4 |
| 0- 80 | 27 |
| 0- 90 | 96 |
| 0-100 | 232 |
| 0-110 | 445 |
| 0-120 | 728 |
| 0-130 | 1063 |
| 0-140 | 1424 |
| 0-150 | 1776 |
| 0-160 | 2078 |
| 0-170 | 2283 |
| 0-180 | 2355 |



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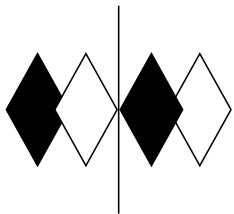
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 96 | 96 | 96 | 96 | 83 | 83 | 83 | 83 | 58 | 58 | 58 | 35 | 35 | 35 | 14 | 14 | 14 | 4 |
| 1 | 86 | 82 | 78 | 74 | 74 | 70 | 67 | 64 | 49 | 46 | 45 | 29 | 27 | 26 | 10 | 10 | 9 | 1 |
| 2 | 78 | 71 | 65 | 60 | 67 | 61 | 56 | 52 | 42 | 39 | 36 | 25 | 23 | 22 | 9 | 8 | 7 | 0 |
| 3 | 71 | 62 | 55 | 50 | 61 | 53 | 48 | 43 | 37 | 33 | 30 | 22 | 20 | 18 | 8 | 7 | 6 | 0 |
| 4 | 65 | 55 | 47 | 41 | 55 | 47 | 41 | 36 | 33 | 29 | 25 | 19 | 17 | 15 | 7 | 6 | 5 | 0 |
| 5 | 59 | 48 | 41 | 35 | 51 | 42 | 35 | 31 | 29 | 25 | 22 | 17 | 15 | 13 | 6 | 5 | 4 | 0 |
| 6 | 54 | 43 | 35 | 30 | 46 | 37 | 31 | 26 | 26 | 22 | 19 | 15 | 13 | 11 | 5 | 4 | 4 | 0 |
| 7 | 50 | 39 | 31 | 26 | 43 | 33 | 27 | 23 | 23 | 19 | 16 | 14 | 11 | 10 | 5 | 4 | 3 | 0 |
| 8 | 46 | 35 | 27 | 23 | 40 | 30 | 24 | 20 | 21 | 17 | 14 | 12 | 10 | 8 | 4 | 4 | 3 | 0 |
| 9 | 43 | 31 | 24 | 20 | 37 | 27 | 21 | 17 | 19 | 15 | 12 | 11 | 9 | 7 | 4 | 3 | 2 | 0 |
| 10 | 40 | 29 | 22 | 17 | 34 | 25 | 19 | 15 | 17 | 13 | 11 | 10 | 8 | 6 | 4 | 3 | 2 | 0 |

ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS TEST SAMPLE.

NOTE: THE ZONAL CAVITY CALCULATION TECHNIQUE IS ACCURATE WHEN LUMINAIRES WITH SYMMETRIC CANDELA DISTRIBUTIONS ARE EMPLOYED AND WHEN THE LUMINAIRES ARE LOCATED SYMMETRICALLY THROUGHOUT THE ROOM. THIS UNIT HAS SPECIAL CHARACTERISTICS AND THEREFORE THESE COEFFICIENTS SHOULD BE USED WITH CAUTION.



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