



IES INDOOR REPORT
PHOTOMETRIC FILENAME : ITL37106.IES

DESCRIPTION INFORMATION (From Photometric File)

REPORT NUMBER: ITL37106 DATE: 7-13-1990
 PREPARED FOR: LEXALITE INTERNATIONAL CORP.
 CATALOG NUMBER: 822 (LC=8.0)
 LUMINAIRE: FORMED ACRYLIC REFLECTOR/REFRACTOR WITH WHITE-PAINTED
 UPPER COLLAR, OPEN BOTTOM.
 LAMPS: PHOSPHOR-COATED 400-WATT METAL HALIDE, BASE UP, RATED 36000
 LUMENS.
 MOUNTING: PENDANT

CHARACTERISTICS

| | |
|---------------------------------|-------------|
| Total Rated Lamp Lumens | 36000 |
| Total Luminaire Efficiency | 95 % |
| Luminaire Efficacy Rating (LER) | 85 |
| Total Luminaire Watts | 400 |
| Ballast Factor | 1.00 |
| CIE Type | Semi-Direct |
| Spacing Criteria (0-180) | 2.18 |
| Spacing Criteria (90-270) | 2.18 |
| Spacing Criteria (Diagonal) | 1.80 |
| Basic Luminous Shape | Point |
| Luminous Length (0-180) | 0.00 ft |
| Luminous Width (90-270) | 0.00 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 0 | 0 | 0 |
| 55 | 0 | 0 | 0 |
| 65 | 0 | 0 | 0 |
| 75 | 0 | 0 | 0 |
| 85 | 0 | 0 | 0 |

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CANDELA TABULATION

| | <u>0</u> |
|-----|----------|
| 0 | 4747.0 |
| 5 | 4944.0 |
| 10 | 5277.0 |
| 15 | 5702.0 |
| 20 | 6502.0 |
| 25 | 7804.0 |
| 30 | 9289.0 |
| 35 | 11231.0 |
| 40 | 12095.0 |
| 45 | 9225.0 |
| 50 | 5657.0 |
| 55 | 3450.0 |
| 60 | 2152.0 |
| 65 | 1298.0 |
| 70 | 1147.0 |
| 75 | 1266.0 |
| 80 | 1407.0 |
| 85 | 1517.0 |
| 90 | 1558.0 |
| 95 | 1668.0 |
| 100 | 1681.0 |
| 105 | 1608.0 |
| 110 | 1512.0 |
| 115 | 1343.0 |
| 120 | 1138.0 |
| 125 | 904.7 |
| 130 | 699.1 |
| 135 | 557.4 |
| 140 | 498.0 |
| 145 | 488.9 |
| 150 | 479.8 |
| 155 | 479.8 |
| 160 | 498.0 |
| 165 | 525.5 |
| 170 | 520.9 |
| 175 | 415.8 |
| 180 | 383.8 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|--------|----------|-------|-------|
| 0-30 | 5802.11 | 16.1 | 17 |
| 0-40 | 12715.59 | 35.3 | 37.2 |
| 0-60 | 22945.34 | 63.7 | 67.1 |
| 0-90 | 27385.55 | 76.1 | 80.1 |
| 90-120 | 4814.91 | 13.4 | 14.1 |
| 90-130 | 5635.79 | 15.7 | 16.5 |
| 90-150 | 6392.41 | 17.8 | 18.7 |
| 90-180 | 6805.89 | 18.9 | 19.9 |
| 0-180 | 34191.44 | 95 | 100 |

Total Luminaire Efficiency = 95%

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 481.49 |
| 10-20 | 1657.05 |
| 20-30 | 3663.57 |
| 30-40 | 6913.48 |
| 40-50 | 6954.7 |
| 50-60 | 3275.05 |
| 60-70 | 1457.79 |
| 70-80 | 1345.94 |
| 80-90 | 1636.48 |
| 90-100 | 1793.31 |
| 100-110 | 1695.56 |
| 110-120 | 1326.04 |
| 120-130 | 820.88 |
| 130-140 | 449.31 |
| 140-150 | 307.3 |
| 150-160 | 223.99 |
| 160-170 | 146.42 |
| 170-180 | 43.07 |

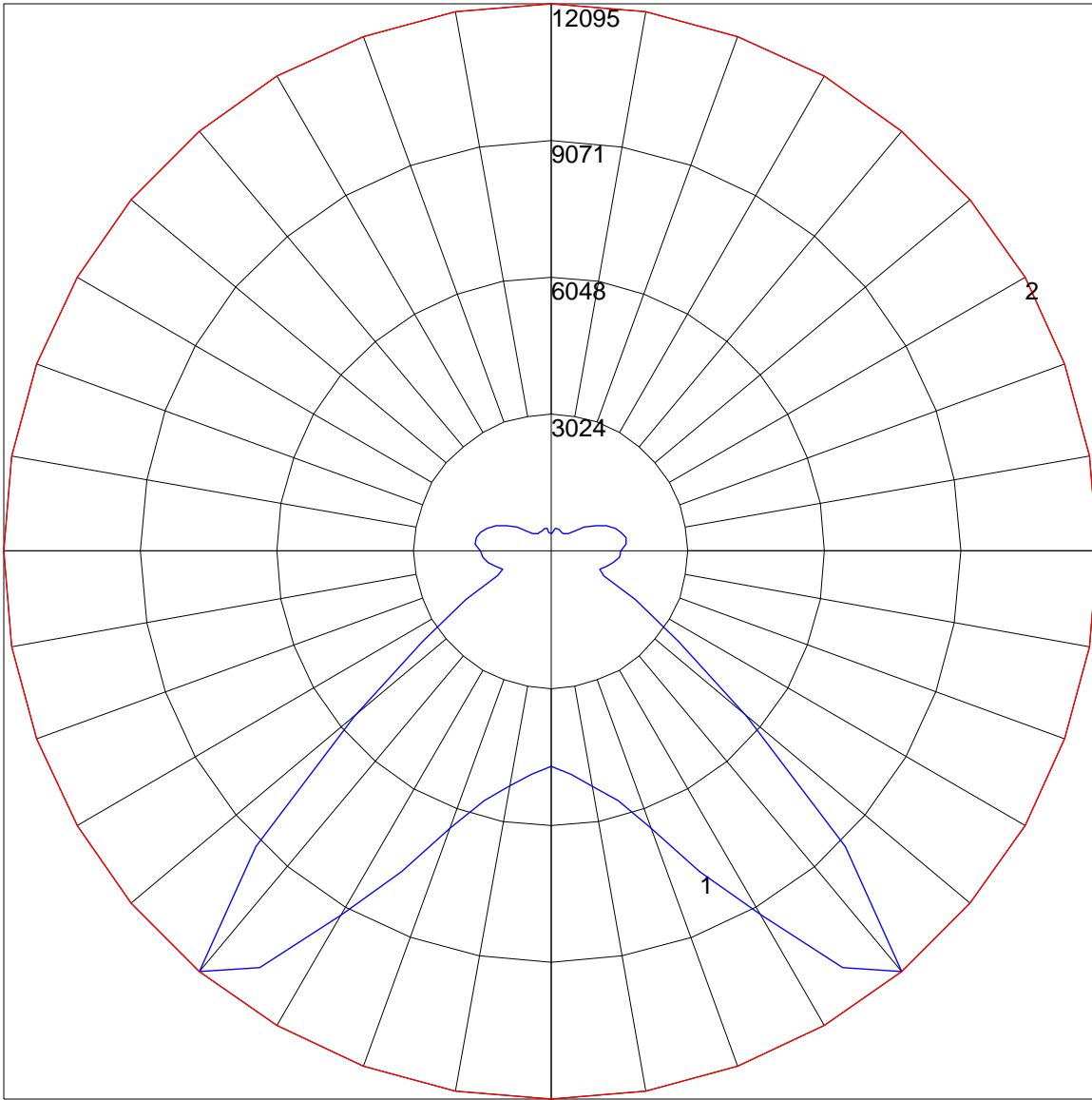
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 109 | 109 | 109 | 109 | 104 | 104 | 104 | 104 | 95 | 95 | 95 | 87 | 87 | 87 | 80 | 80 | 80 | 76 | 0 |
| 1 | 99 | 94 | 90 | 86 | 94 | 90 | 86 | 83 | 82 | 79 | 77 | 75 | 73 | 71 | 69 | 67 | 66 | 62 | 0 |
| 2 | 90 | 82 | 76 | 71 | 86 | 79 | 73 | 68 | 73 | 68 | 64 | 67 | 63 | 60 | 61 | 58 | 56 | 53 | 0 |
| 3 | 82 | 73 | 65 | 59 | 78 | 70 | 63 | 57 | 64 | 59 | 54 | 59 | 55 | 51 | 54 | 51 | 48 | 45 | 0 |
| 4 | 75 | 64 | 56 | 50 | 72 | 62 | 55 | 49 | 57 | 51 | 46 | 53 | 48 | 44 | 49 | 45 | 41 | 38 | 0 |
| 5 | 69 | 57 | 49 | 43 | 66 | 55 | 48 | 42 | 51 | 45 | 40 | 47 | 42 | 38 | 44 | 39 | 36 | 33 | 0 |
| 6 | 64 | 51 | 43 | 37 | 61 | 49 | 42 | 36 | 46 | 39 | 35 | 43 | 37 | 33 | 39 | 35 | 31 | 29 | 0 |
| 7 | 59 | 46 | 38 | 32 | 56 | 45 | 37 | 32 | 41 | 35 | 30 | 38 | 33 | 29 | 36 | 31 | 27 | 25 | 0 |
| 8 | 54 | 42 | 34 | 28 | 52 | 40 | 33 | 28 | 38 | 31 | 27 | 35 | 29 | 25 | 32 | 28 | 24 | 22 | 0 |
| 9 | 50 | 38 | 30 | 25 | 48 | 37 | 29 | 25 | 34 | 28 | 23 | 32 | 26 | 22 | 30 | 25 | 21 | 19 | 0 |
| 10 | 47 | 35 | 27 | 22 | 45 | 33 | 27 | 22 | 31 | 25 | 21 | 29 | 24 | 20 | 27 | 22 | 19 | 17 | 0 |

POLAR GRAPH



Maximum Candela = 12095 Located At Horizontal Angle = 0, Vertical Angle = 40
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (40) (Through Max. Cd.)