



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 380-T8HO-2L-4.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-1995

[TEST] LDPI LIGHTING PHOTOMETRIC REPORT

[LUMINAIRE] PROJECT: 380-T8HO-2L-4 CAST ALUMINUM BALLAST HOUSING AND HUB ASSEMBLIES.

[LUMINAIRE] WHITE POWDER COATED ALUMINUM REFLECTORS. CYLINDRICAL GLASS LAMP ENCLOSURES.

[LUMINAIRE] LAMP TUBES ORIENTED HORIZONTALLY.

[LAMP] F48T8/TL841/HO/ALTO 4000 LUMENS

[OTHER] OPTIONS:

[OTHER] Spawning 1 rays for each reaction.

[OTHER] Writing 250 rays to a DXF file.

[OTHER] Random number generator seed: 8.

[OTHER] Tracing 15 reflections.

[OTHER] Stop tracing ray at 1.0% of initial magnitude.

[OTHER] Tracing 499968 initial lamp rays.

[OTHER] Photometric test distance of 20.00 feet.

[OTHER]

[OTHER] LUMENS EXITING SYSTEM:

| Lumens(%) | Reflection |
|-----------|------------|
|-----------|------------|

| | |
|----------|---|
| 0(0.0%) | 0 |
|----------|---|

| | |
|--------------|---|
| 3104(39.8%) | 1 |
|--------------|---|

| | |
|--------------|---|
| 1091(14.0%) | 2 |
|--------------|---|

| | |
|------------|---|
| 461(5.9%) | 3 |
|------------|---|

| | |
|------------|---|
| 545(7.0%) | 4 |
|------------|---|

| | |
|------------|---|
| 308(4.0%) | 5 |
|------------|---|

| | |
|------------|---|
| 306(3.9%) | 6 |
|------------|---|

| | |
|------------|---|
| 168(2.2%) | 7 |
|------------|---|

| | |
|------------|---|
| 166(2.1%) | 8 |
|------------|---|

| | |
|------------|---|
| 111(1.4%) | 9 |
|------------|---|

| | |
|-----------|----|
| 98(1.3%) | 10 |
|-----------|----|

| | |
|-----------|----|
| 67(0.9%) | 11 |
|-----------|----|

| | |
|-----------|----|
| 57(0.7%) | 12 |
|-----------|----|

| | |
|-----------|----|
| 41(0.5%) | 13 |
|-----------|----|

| | |
|-----------|----|
| 34(0.4%) | 14 |
|-----------|----|

| | |
|-----------|----|
| 25(0.3%) | 15 |
|-----------|----|

| | |
|--------------|-------|
| 6590(84.5%) | Total |
|--------------|-------|

[OTHER]

[OTHER] LUMENS ABSORBED BY SYSTEM:

| Lumens(%) | Layer Name |
|-----------|------------|
|-----------|------------|

| | |
|------------|-----------|
| 239(3.1%) | REFL-ENDH |
|------------|-----------|

| | |
|----------|-----------|
| 7(0.1%) | REFL-ENDC |
|----------|-----------|

| | |
|------------|-----------|
| 470(6.0%) | REFL-REFL |
|------------|-----------|

| | |
|-----------|------------|
| 15(0.2%) | TRAN-GLOBE |
|-----------|------------|

| | |
|-----------|-----------|
| 13(0.2%) | REFL-HOLD |
|-----------|-----------|

| | |
|----------|------------|
| 7(0.1%) | REFL-BRACK |
|----------|------------|

| | |
|------------|--------------|
| 272(3.5%) | LAMP-FO32311 |
|------------|--------------|

| | |
|-----------|--------------|
| 13(0.2%) | LAMP-FO32312 |
|-----------|--------------|

| | |
|----------|--------------|
| 0(0.0%) | LAMP-FO3231A |
|----------|--------------|

| | |
|--------------|-------|
| 1040(13.3%) | Total |
|--------------|-------|

| Lumens(%) | Material |
|-----------|----------|
|-----------|----------|

| | |
|------------|----------|
| 285(3.7%) | PHOSGLAS |
|------------|----------|

| | |
|------------|--------|
| 247(3.2%) | SPEC20 |
|------------|--------|

| | |
|------------|----------|
| 470(6.0%) | PAINT009 |
|------------|----------|

| | |
|-----------|--------|
| 21(0.3%) | SPEC40 |
|-----------|--------|

[OTHER] 15(0.2%) GLASS001
 [OTHER] 1040(13.3%) Total
 [OTHER]
 [OTHER] UNACCOUNTED LUMENS:
 [OTHER] reached interreflection limit: 132.86 (1.7%)
 [OTHER] fell below continuation minimum: 0.59 (0.0%)
 [OTHER] could not find in/out refractor facet: 0.00 (0.0%)
 [OTHER] reached try limit for scatter bounce: 0.00 (0.0%)
 [OTHER] lost elsewhere(i.e. outside distrib): 35.92 (0.5%)

CHARACTERISTICS

| | |
|-----------------------------|---------------------|
| Total Rated Lamp Lumens | 7800 (2 lamps) |
| Total Luminaire Efficiency | 84.6 % |
| CIE Type | Direct |
| Spacing Criteria (0-180) | 1.26 |
| Spacing Criteria (90-270) | 1.32 |
| Spacing Criteria (Diagonal) | 1.44 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 4.34 ft |
| Luminous Width (90-270) | 0.74 ft |
| Luminous Height | 0.28 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 5985 | 5069 | 5065 |
| 55 | 5494 | 4783 | 5047 |
| 65 | 4835 | 4499 | 5002 |
| 75 | 4049 | 4227 | 4571 |
| 85 | 1559 | 2160 | 2328 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|--------|---------|-------|-------|
| 0-30 | 1536.88 | 19.7 | 23.3 |
| 0-40 | 2543.17 | 32.6 | 38.6 |
| 0-60 | 4697.12 | 60.2 | 71.2 |
| 0-90 | 6596.19 | 84.6 | 100 |
| 90-120 | 0 | 0 | 0 |
| 90-130 | 0 | 0 | 0 |
| 90-150 | 0 | 0 | 0 |
| 90-180 | 0 | 0 | 0 |
| 0-180 | 6596.19 | 84.6 | 100 |

Total Luminaire Efficiency = 84.6%

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 184.54 |
| 10-20 | 532.31 |
| 20-30 | 820.03 |
| 30-40 | 1006.29 |
| 40-50 | 1089.88 |
| 50-60 | 1064.07 |
| 60-70 | 933.72 |
| 70-80 | 684.7 |
| 80-90 | 280.65 |
| 90-100 | 0 |
| 100-110 | 0 |
| 110-120 | 0 |
| 120-130 | 0 |
| 130-140 | 0 |
| 140-150 | 0 |
| 150-160 | 0 |
| 160-170 | 0 |
| 170-180 | 0 |

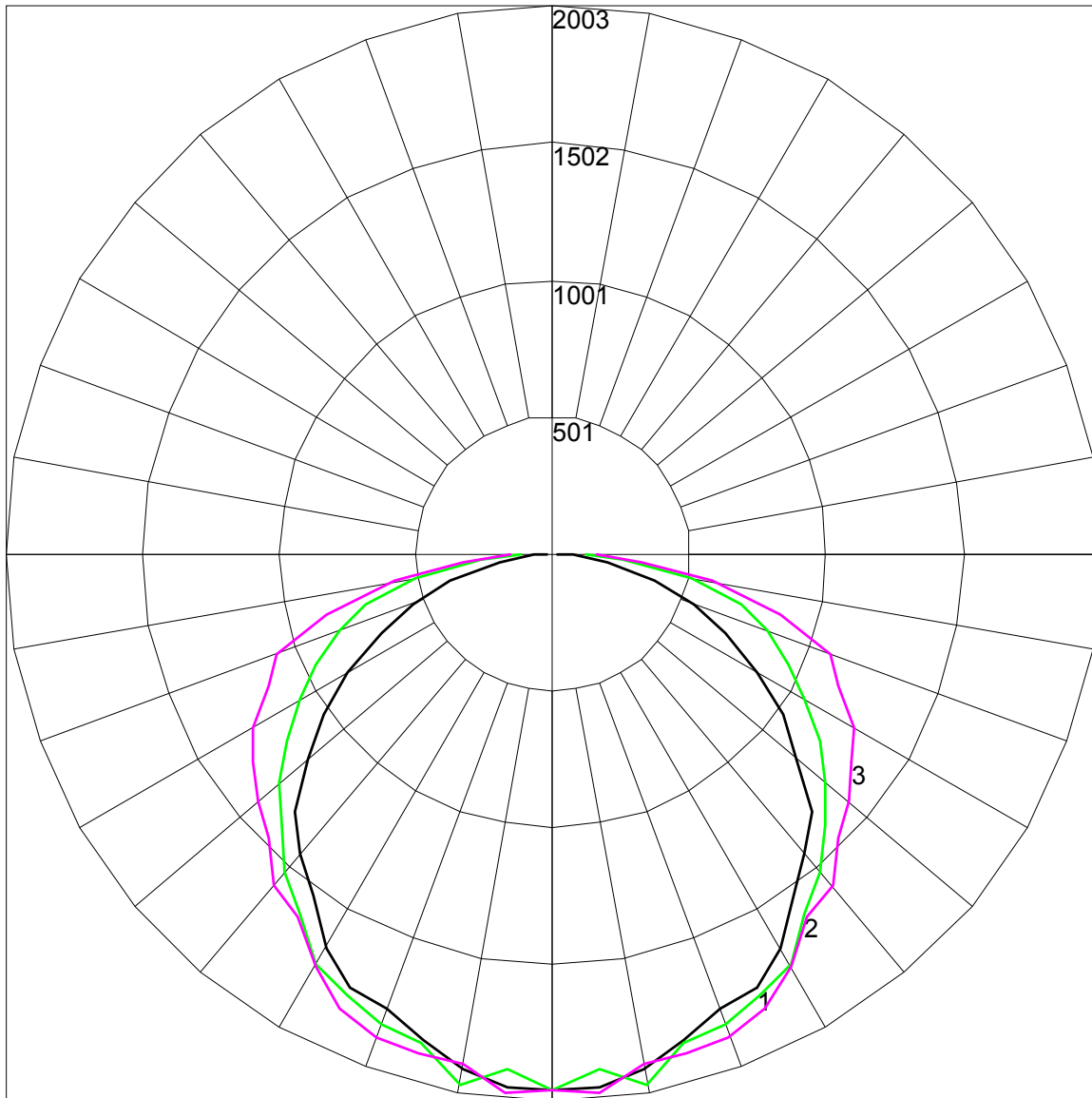
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

| RC RW | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 |
|----------|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| 0 | 101 | 101 | 101 | 101 | 98 | 98 | 98 | 98 | 94 | 94 | 94 | 90 | 90 | 90 | 86 | 86 | 86 | 85 |
| 1 | 90 | 86 | 82 | 78 | 88 | 84 | 80 | 76 | 80 | 77 | 74 | 77 | 74 | 72 | 74 | 72 | 70 | 68 |
| 2 | 81 | 74 | 67 | 62 | 79 | 72 | 66 | 61 | 69 | 64 | 59 | 66 | 62 | 58 | 63 | 60 | 57 | 55 |
| 3 | 74 | 64 | 56 | 50 | 72 | 63 | 56 | 50 | 60 | 54 | 49 | 58 | 52 | 48 | 55 | 51 | 47 | 45 |
| 4 | 67 | 56 | 48 | 42 | 65 | 55 | 48 | 42 | 53 | 46 | 41 | 51 | 45 | 41 | 49 | 44 | 40 | 38 |
| 5 | 62 | 50 | 42 | 36 | 60 | 49 | 41 | 36 | 47 | 40 | 35 | 45 | 39 | 35 | 44 | 39 | 34 | 32 |
| 6 | 57 | 45 | 37 | 31 | 55 | 44 | 36 | 31 | 42 | 36 | 31 | 41 | 35 | 30 | 40 | 34 | 30 | 28 |
| 7 | 53 | 41 | 33 | 27 | 51 | 40 | 32 | 27 | 38 | 32 | 27 | 37 | 31 | 27 | 36 | 31 | 26 | 25 |
| 8 | 49 | 37 | 29 | 24 | 47 | 36 | 29 | 24 | 35 | 29 | 24 | 34 | 28 | 24 | 33 | 28 | 24 | 22 |
| 9 | 46 | 34 | 27 | 22 | 44 | 33 | 26 | 22 | 32 | 26 | 21 | 31 | 26 | 21 | 30 | 25 | 21 | 20 |
| 10 | 43 | 31 | 24 | 20 | 42 | 31 | 24 | 20 | 30 | 24 | 19 | 29 | 23 | 19 | 28 | 23 | 19 | 18 |

POLAR GRAPH



Maximum Candela = 2002.92 Located At Horizontal Angle = 67.5, Vertical Angle = 5

- # 1 - Vertical Plane Through Horizontal Angles (0 - 180)
- # 2 - Vertical Plane Through Horizontal Angles (45 - 225)
- # 3 - Vertical Plane Through Horizontal Angles (90 - 270)