

Photometric Test Report

IES INDOOR REPORT

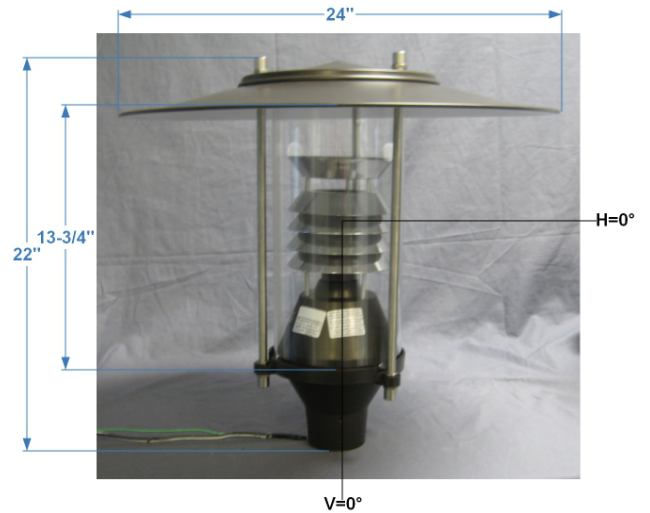
PHOTOMETRIC FILENAME : L02130802.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L02130802
[TESTLAB] LIGHT LABORATORY, INC.
[ISSUEDATE] 2/18/2013
[MANUFAC] HI-LITE MFG
[LUMCAT] H-92724
[LUMINAIRE] 24" DIA. X 22"H. POST TOP
[MORE] 150W METAL HALIDE, RIBBED GLASS
[BALLASTCAT] PHILIPS ADVANCE HX-HPP AUTOTRANSFORMER BALLAST 71A5492
[BALLAST] 150W M102/M142 METAL HALIDE, INPUT: 120-277VAC 60HZ
[LAMPPOSITION] 0,0
[LAMPCAT] PREMIER 2M150HC
[LAMPLUM] 13500
[INPUT] 120VAC, 184.81W

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | 13500 (1 lamp) |
| Total Lamp Lumens | 13500 |
| Luminaire Lumens | 5329 |
| Total Luminaire Efficiency | 39 % |
| Luminaire Efficacy Rating (LER) | 29 |
| Total Luminaire Watts | 184.81 |
| Ballast Factor | 1.00 |
| CIE Type | Semi-Direct |
| Spacing Criterion (0-180) | 2.58 |
| Spacing Criterion (90-270) | 2.58 |
| Spacing Criterion (Diagonal) | 2.48 |
| Basic Luminous Shape | Circular w/ Sides |
| Luminous Length (0-180) | 2.00 ft (Diameter) |
| Luminous Width (90-270) | 2.00 ft (Diameter) |
| Luminous Height | 1.55 ft |



LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|------------------|---------------|----------------|----------------|
| 45 | 2807 | 2807 | 2807 |
| 55 | 1816 | 1816 | 1816 |
| 65 | 2342 | 2342 | 2342 |
| 75 | 1771 | 1771 | 1771 |
| 85 | 1081 | 1081 | 1081 |

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CANDELA TABULATION

| | <u>0</u> |
|-------|----------|
| 0.0 | 395 |
| 5.0 | 385 |
| 15.0 | 720 |
| 25.0 | 899 |
| 35.0 | 849 |
| 45.0 | 1152 |
| 55.0 | 733 |
| 60.0 | 799 |
| 62.5 | 907 |
| 65.0 | 901 |
| 67.5 | 862 |
| 70.0 | 824 |
| 72.5 | 731 |
| 75.0 | 627 |
| 77.5 | 574 |
| 80.0 | 521 |
| 82.5 | 408 |
| 85.0 | 338 |
| 87.5 | 330 |
| 90.0 | 342 |
| 95.0 | 314 |
| 105.0 | 165 |
| 115.0 | 57 |
| 125.0 | 23 |
| 135.0 | 12 |
| 145.0 | 9 |
| 155.0 | 9 |
| 165.0 | 9 |
| 175.0 | 0 |
| 180.0 | 0 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 114.40 | 0.80 | 2.10 |
| 0-30 | 417.63 | 3.10 | 7.80 |
| 0-40 | 896.25 | 6.60 | 16.80 |
| 0-60 | 2745.47 | 20.30 | 51.50 |
| 0-80 | 4296.94 | 31.80 | 80.60 |
| 0-90 | 4707.89 | 34.90 | 88.30 |
| 10-90 | 4698.57 | 34.80 | 88.20 |
| 20-40 | 781.85 | 5.80 | 14.70 |
| 20-50 | 1486.2 | 11.00 | 27.90 |
| 40-70 | 2713.06 | 20.10 | 50.90 |
| 60-80 | 1551.47 | 11.50 | 29.10 |
| 70-80 | 687.63 | 5.10 | 12.90 |
| 80-90 | 410.95 | 3.00 | 7.70 |
| 90-110 | 437.94 | 3.20 | 8.20 |
| 90-120 | 552.18 | 4.10 | 10.40 |
| 90-130 | 590.12 | 4.40 | 11.10 |
| 90-150 | 612.19 | 4.50 | 11.50 |
| 90-180 | 621.35 | 4.60 | 11.70 |
| 110-180 | 183.41 | 1.40 | 3.40 |
| 0-180 | 5329.24 | 39.50 | 100.00 |

Total Luminaire Efficiency = 39.50%

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 9.32 |
| 10-20 | 105.08 |
| 20-30 | 303.23 |
| 30-40 | 478.62 |
| 40-50 | 704.35 |
| 50-60 | 1144.87 |
| 60-70 | 863.84 |
| 70-80 | 687.63 |
| 80-90 | 410.95 |
| 90-100 | 179.62 |
| 100-110 | 258.32 |
| 110-120 | 114.24 |
| 120-130 | 37.94 |
| 130-140 | 14.68 |
| 140-150 | 7.39 |
| 150-160 | 4.93 |
| 160-170 | 3.37 |
| 170-180 | 0.86 |

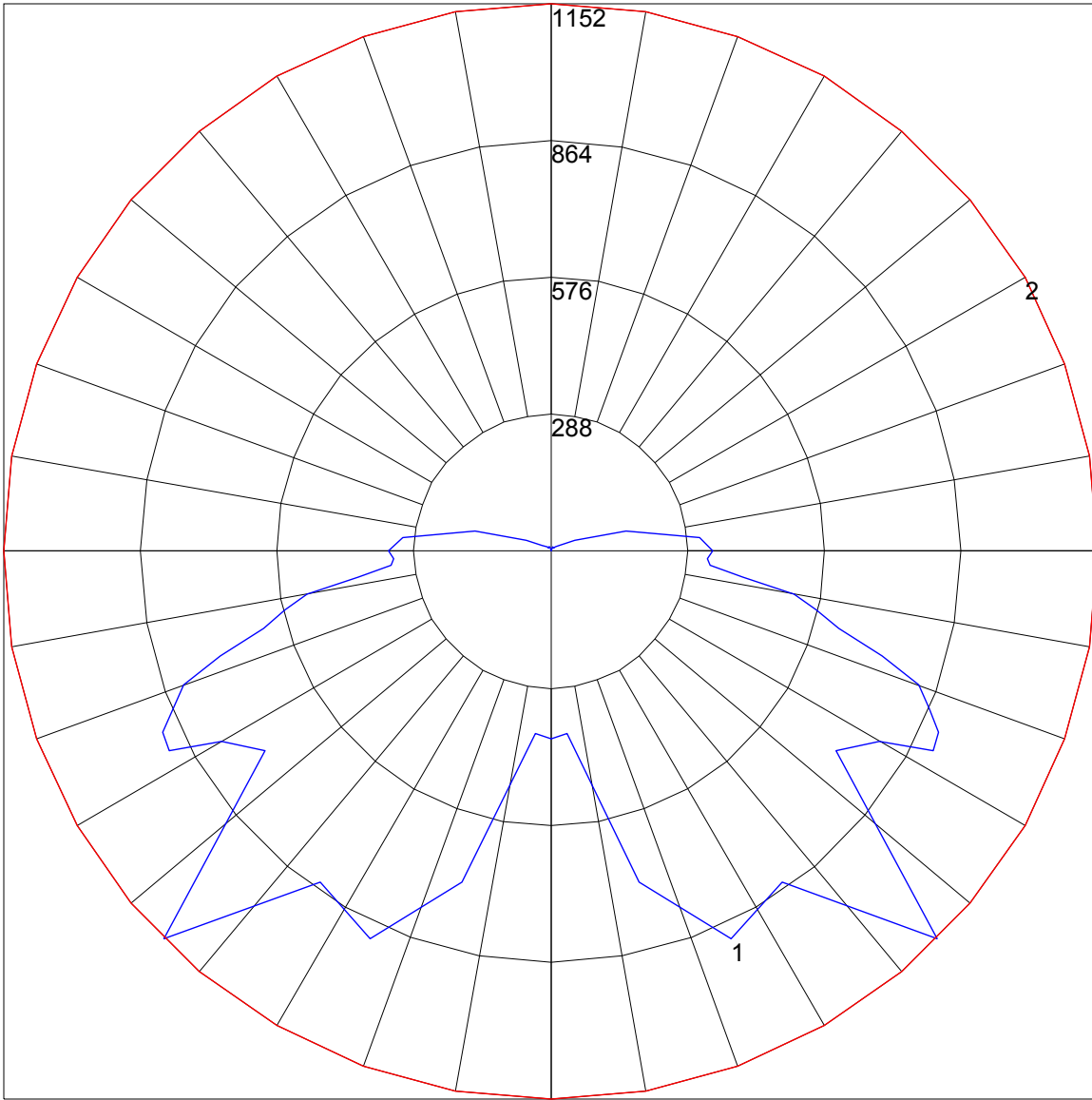
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 46 | 46 | 46 | 46 | 44 | 44 | 44 | 44 | 41 | 41 | 41 | 39 | 39 | 39 | 36 | 36 | 36 | 35 |
| 1 | 40 | 37 | 35 | 33 | 38 | 36 | 34 | 32 | 33 | 32 | 30 | 31 | 30 | 28 | 29 | 28 | 27 | 25 |
| 2 | 35 | 31 | 28 | 25 | 34 | 30 | 27 | 24 | 28 | 25 | 23 | 26 | 23 | 21 | 24 | 22 | 20 | 19 |
| 3 | 31 | 26 | 22 | 19 | 30 | 25 | 22 | 19 | 23 | 20 | 18 | 22 | 19 | 17 | 20 | 18 | 16 | 15 |
| 4 | 28 | 22 | 18 | 15 | 27 | 22 | 18 | 15 | 20 | 17 | 14 | 18 | 16 | 13 | 17 | 15 | 13 | 11 |
| 5 | 25 | 19 | 15 | 12 | 24 | 19 | 15 | 12 | 17 | 14 | 11 | 16 | 13 | 11 | 15 | 12 | 10 | 9 |
| 6 | 23 | 17 | 13 | 10 | 22 | 16 | 13 | 10 | 15 | 12 | 9 | 14 | 11 | 9 | 13 | 10 | 8 | 7 |
| 7 | 21 | 15 | 11 | 8 | 20 | 15 | 11 | 8 | 13 | 10 | 8 | 12 | 10 | 7 | 11 | 9 | 7 | 6 |
| 8 | 20 | 13 | 10 | 7 | 19 | 13 | 9 | 7 | 12 | 9 | 7 | 11 | 8 | 6 | 10 | 8 | 6 | 5 |
| 9 | 18 | 12 | 9 | 6 | 17 | 12 | 8 | 6 | 11 | 8 | 6 | 10 | 7 | 5 | 9 | 7 | 5 | 4 |
| 10 | 17 | 11 | 8 | 5 | 16 | 11 | 7 | 5 | 10 | 7 | 5 | 9 | 7 | 5 | 9 | 6 | 4 | 4 |

POLAR GRAPH



Maximum Candela = 1152 Located At Horizontal Angle = 0, Vertical Angle = 45
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (45) (Through Max. Cd.)