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**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : PARABEAM 400-410 45 DEGREE.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] LLI 0307-04K
[TESTLAB] LIGHT LABORATORY INC
[ISSUEDATE] 3/14/2007
[MANUFAC] KINO FLO, INC.
[LUMCAT] PARABEAM 400/410 45 DEGREE
[LUMINAIRE] 24-1/2"L. X 24"W. X 6"H. STUDIO FIXTURE
[MORE] SPECULAR REFLECTOR
[MORE] WITH 45 DEGREE SPOT HEXCEL LOUVERS
[BALLASTCAT] SYLVANIA QT2X54/120PHO-DIM
[BALLAST] 120V 60Hz ELECTRONIC
[LAMPPOSITION] 180,90
[LAMPCAT] KINO FLO TRUE MATCH 55C-K29
[_LAMPLUM] 2800
[_INPUT] 120VAC, 220.3W

**CHARACTERISTICS**

| | |
|---|---|
| Lumens Per Lamp | 2800 (4 lamps) |
| Total Lamp Lumens | 11200 |
| Luminaire Lumens | 1113 |
| Total Luminaire Efficiency | 10 % |
| Luminaire Efficacy Rating (LER) | 5 |
| Total Luminaire Watts | 220.3 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criteria (0-180) | 0.38 |
| Spacing Criteria (90-270) | 0.36 |
| Spacing Criteria (Diagonal) | 0.40 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 1.88 ft |
| Luminous Width (90-270) | 1.83 ft |
| Luminous Height | 0.00 ft |

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**LUMINANCE DATA (cd/sq.m)**

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---|---|---|---|
| 45 | 177 | 84 | 49 |
| 55 | 272 | 60 | 27 |
| 65 | 451 | 67 | 22 |
| 75 | 845 | 24 | 24 |
| 85 | 574 | 72 | 36 |

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## IES INDOOR REPORT
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## CANDELA TABULATION

| | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 |
|---|---|---|---|---|---|
| **0** | 5307 | 5307 | 5307 | 5307 | 5307 |
| **5** | 4220 | 4264 | 4331 | 4355 | 4360 |
| **15** | 1612 | 1581 | 1543 | 1420 | 1312 |
| **25** | 138 | 145 | 129 | 120 | 161 |
| **35** | 59 | 53 | 51 | 45 | 32 |
| **45** | 40 | 28 | 19 | 17 | 11 |
| **55** | 50 | 25 | 11 | 7 | 5 |
| **65** | 61 | 27 | 9 | 3 | 3 |
| **75** | 70 | 26 | 2 | 2 | 2 |
| **85** | 16 | 3 | 2 | 2 | 1 |
| **90** | 2 | 2 | 2 | 1 | 1 |

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**ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---|---|---|---|
| 0-30 | 974.27 | 8.70 | 87.50 |
| 0-40 | 1024.79 | 9.10 | 92.00 |
| 0-60 | 1066.56 | 9.50 | 95.80 |
| 0-90 | 1113.46 | 9.90 | 100.00 |
| 90-120 | 0.00 | 0.00 | 0.00 |
| 90-130 | 0.00 | 0.00 | 0.00 |
| 90-150 | 0.00 | 0.00 | 0.00 |
| 90-180 | 0.00 | 0.00 | 0.00 |
| 0-180 | 1113.46 | 9.90 | 100.00 |

Total Luminaire Efficiency = 9.90%

**ZONAL LUMEN SUMMARY**

| Zone | Lumens |
|---|---|
| 0-10 | 114.97 |
| 10-20 | 552.63 |
| 20-30 | 306.67 |
| 30-40 | 50.52 |
| 40-50 | 24.99 |
| 50-60 | 16.78 |
| 60-70 | 16.78 |
| 70-80 | 17.62 |
| 80-90 | 12.49 |
| 90-100 | 0.00 |
| 100-110 | 0.00 |
| 110-120 | 0.00 |
| 120-130 | 0.00 |
| 130-140 | 0.00 |
| 140-150 | 0.00 |
| 150-160 | 0.00 |
| 160-170 | 0.00 |
| 170-180 | 0.00 |

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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 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 11 | 11 | 11 | 11 | 11 | 11 | 10 | 10 | 10 | 10 |
| 1 | 11 | 11 | 11 | 10 | 11 | 11 | 11 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 9 | 9 |
| 2 | 11 | 10 | 10 | 10 | 11 | 10 | 10 | 9 | 10 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 3 | 10 | 10 | 9 | 9 | 10 | 10 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 8 | 9 | 9 | 8 | 8 |
| 4 | 10 | 9 | 9 | 8 | 10 | 9 | 9 | 8 | 9 | 8 | 8 | 9 | 8 | 8 | 8 | 8 | 8 | 8 |
| 5 | 9 | 9 | 8 | 8 | 9 | 9 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 7 | 7 |
| 6 | 9 | 8 | 8 | 7 | 9 | 8 | 8 | 7 | 8 | 8 | 7 | 8 | 7 | 7 | 8 | 7 | 7 | 7 |
| 7 | 9 | 8 | 7 | 7 | 9 | 8 | 7 | 7 | 8 | 7 | 7 | 8 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 7 | 7 | 7 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 6 |
| 9 | 8 | 7 | 7 | 6 | 8 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 6 | 6 | 7 | 6 | 6 | 6 |
| 10 | 8 | 7 | 6 | 6 | 8 | 7 | 6 | 6 | 7 | 6 | 6 | 7 | 6 | 6 | 7 | 6 | 6 | 6 |

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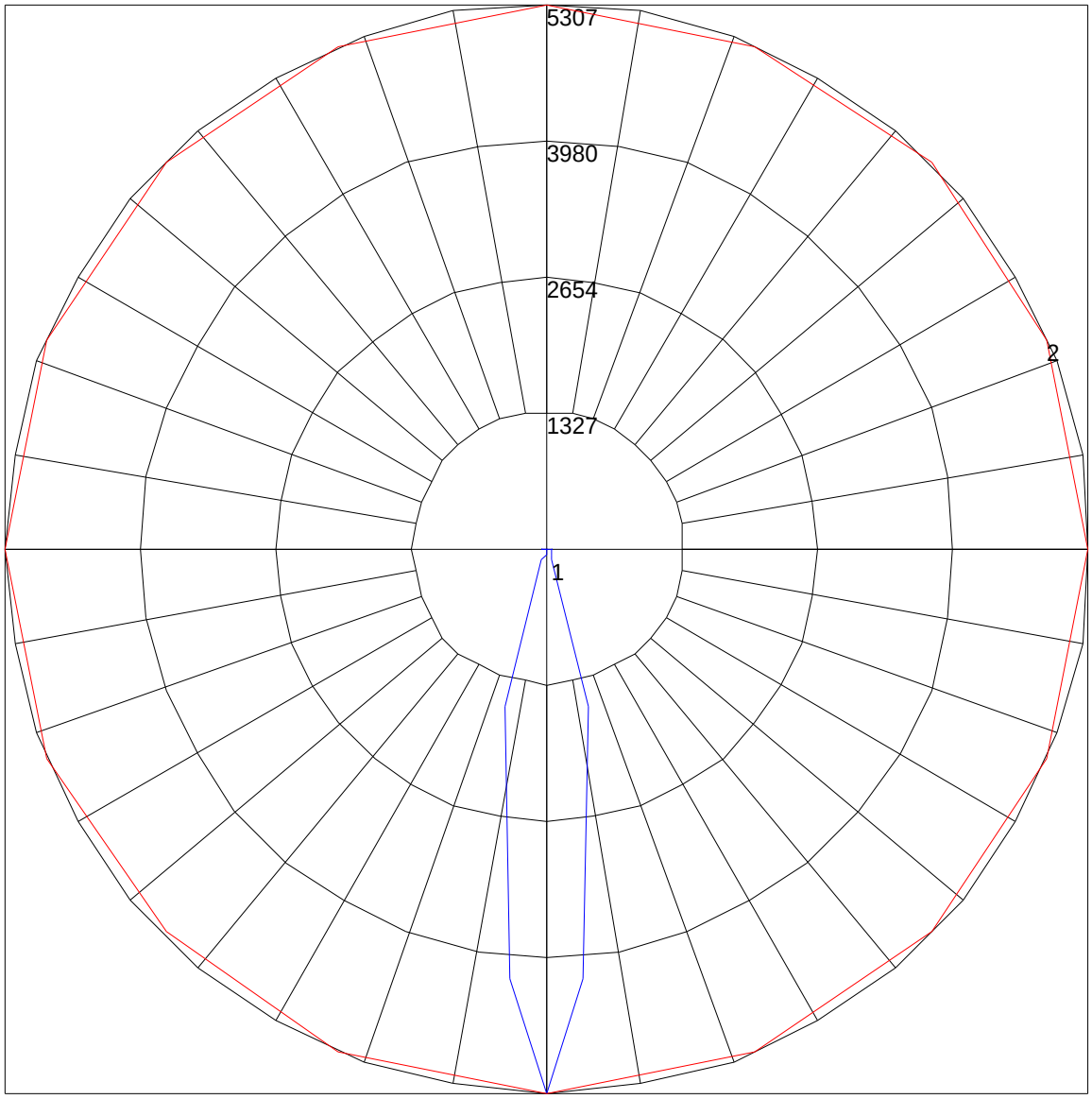
**POLAR GRAPH**




Maximum Candela = 5307 Located At Horizontal Angle = 0, Vertical Angle = 0
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

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