



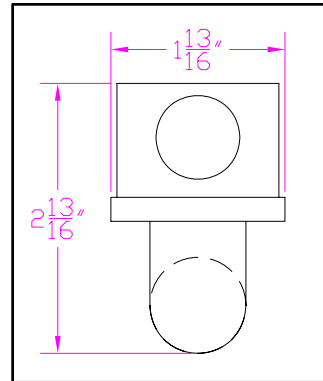
**IES INDOOR REPORT  
PHOTOMETRIC FILENAME : LLI090714A.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LLI 0907-14A  
[TESTLAB] LIGHT LABORATORY INC  
[ISSUEDATE] 9/19/2007  
[MANUFAC] BARTCO LIGHTING, INC.  
[LUMCAT] MIT8-1T/32/UNV-STANDARD ALONE FIXTURE  
[LUMINAIRE] 48"L. X 1-13/16"W. X 2-13/16"H. SURFACE MOUNTED FIXTURE  
[MORE] STANDARD ALONE FIXTURE  
[BALLASTCAT] UNIVERSAL TRIAD B232IUNV-C  
[BALLAST] 120 TO 277V 50/60Hz ELECTRONIC  
[LAMPPOSITION] 0,90  
[LAMPCAT] PHILIPS F32T8/TL835/ALTO  
[LAMPLUM] 2950  
[INPUT] 120VAC, 33.51W

**CHARACTERISTICS**

|                             |                     |
|-----------------------------|---------------------|
| Total Rated Lamp Lumens     | 2950                |
| Total Luminaire Efficiency  | 96.6 %              |
| CIE Type                    | Semi-Direct         |
| Spacing Criteria (0-180)    | 1.38                |
| Spacing Criteria (90-270)   | 1.64                |
| Spacing Criteria (Diagonal) | 1.70                |
| Basic Luminous Shape        | Rectangular w/Sides |
| Luminous Length (0-180)     | 4.00 ft             |
| Luminous Width (90-270)     | 0.15 ft             |
| Luminous Height             | 0.12 ft             |



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

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 7284             | 6181              | 5971              |
| 55                  | 6952             | 6239              | 6140              |
| 65                  | 6375             | 6365              | 6340              |
| 75                  | 4920             | 6512              | 6620              |
| 85                  | 26645            | 6403              | 7014              |

NOTE: ALL TESTS ASSUME BALLAST FACTOR (BF) = 1.0 UNLESS STATED.  
IF TEST OR OTHER BALLAST USED HAS A BF OTHER THAN 1.0, ALL  
LUMEN, CANDELA, AND LUMINANCE VALUES SHOULD BE MULTIPLIED BY  
THE BF, CU, EFFICIENCY AND % FLUX VALUES REMAIN AS LISTED.  
TOTAL WATTS VALUE APPLIES ONLY TO TESTED BALLAST.

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**CANDELA TABULATION**

|            | <u>0</u> | <u>22.5</u> | <u>45</u> | <u>67.5</u> | <u>90</u> |
|------------|----------|-------------|-----------|-------------|-----------|
| <b>0</b>   | 395      | 395         | 395       | 395         | 395       |
| <b>5</b>   | 436      | 431         | 404       | 383         | 377       |
| <b>15</b>  | 429      | 428         | 408       | 393         | 388       |
| <b>25</b>  | 397      | 405         | 404       | 409         | 411       |
| <b>35</b>  | 352      | 371         | 399       | 419         | 426       |
| <b>45</b>  | 296      | 332         | 387       | 415         | 424       |
| <b>55</b>  | 232      | 293         | 367       | 407         | 421       |
| <b>65</b>  | 160      | 242         | 339       | 390         | 406       |
| <b>75</b>  | 79       | 179         | 300       | 361         | 381       |
| <b>85</b>  | 174      | 131         | 240       | 323         | 346       |
| <b>90</b>  | 66       | 121         | 228       | 310         | 333       |
| <b>95</b>  | 66       | 133         | 229       | 308         | 330       |
| <b>105</b> | 5        | 128         | 234       | 301         | 320       |
| <b>115</b> | 0        | 81          | 186       | 271         | 296       |
| <b>125</b> | 0        | 27          | 137       | 200         | 225       |
| <b>135</b> | 0        | 5           | 83        | 130         | 148       |
| <b>145</b> | 0        | 0           | 27        | 67          | 81        |
| <b>155</b> | 0        | 0           | 0         | 12          | 20        |
| <b>165</b> | 0        | 0           | 0         | 0           | 0         |
| <b>175</b> | 0        | 0           | 0         | 0           | 0         |
| <b>180</b> | 0        | 0           | 0         | 0           | 0         |

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**ZONAL LUMEN SUMMARY**

| Zone   | Lumens  | %Lamp | %Fixt |
|--------|---------|-------|-------|
| 0-30   | 239.75  | 8.1   | 8.4   |
| 0-40   | 458.79  | 15.6  | 16.1  |
| 0-60   | 1031.96 | 35    | 36.2  |
| 0-90   | 2041.78 | 69.2  | 71.6  |
| 90-120 | 540.96  | 18.3  | 19    |
| 90-130 | 678.79  | 23    | 23.8  |
| 90-150 | 796.91  | 27    | 23.8  |
| 90-180 | 808.66  | 27.4  | 28.4  |
| 0-180  | 2850.44 | 96.6  | 100   |

Total Luminaire Efficiency = 96.6%

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 9.58   |
| 10-20   | 77.55  |
| 20-30   | 152.62 |
| 30-40   | 219.05 |
| 40-50   | 270.34 |
| 50-60   | 302.83 |
| 60-70   | 313.89 |
| 70-80   | 298.98 |
| 80-90   | 396.95 |
| 90-100  | 118.18 |
| 100-110 | 228.32 |
| 110-120 | 194.45 |
| 120-130 | 137.83 |
| 130-140 | 80.6   |
| 140-150 | 37.53  |
| 150-160 | 10.71  |
| 160-170 | 1.03   |
| 170-180 | 0      |

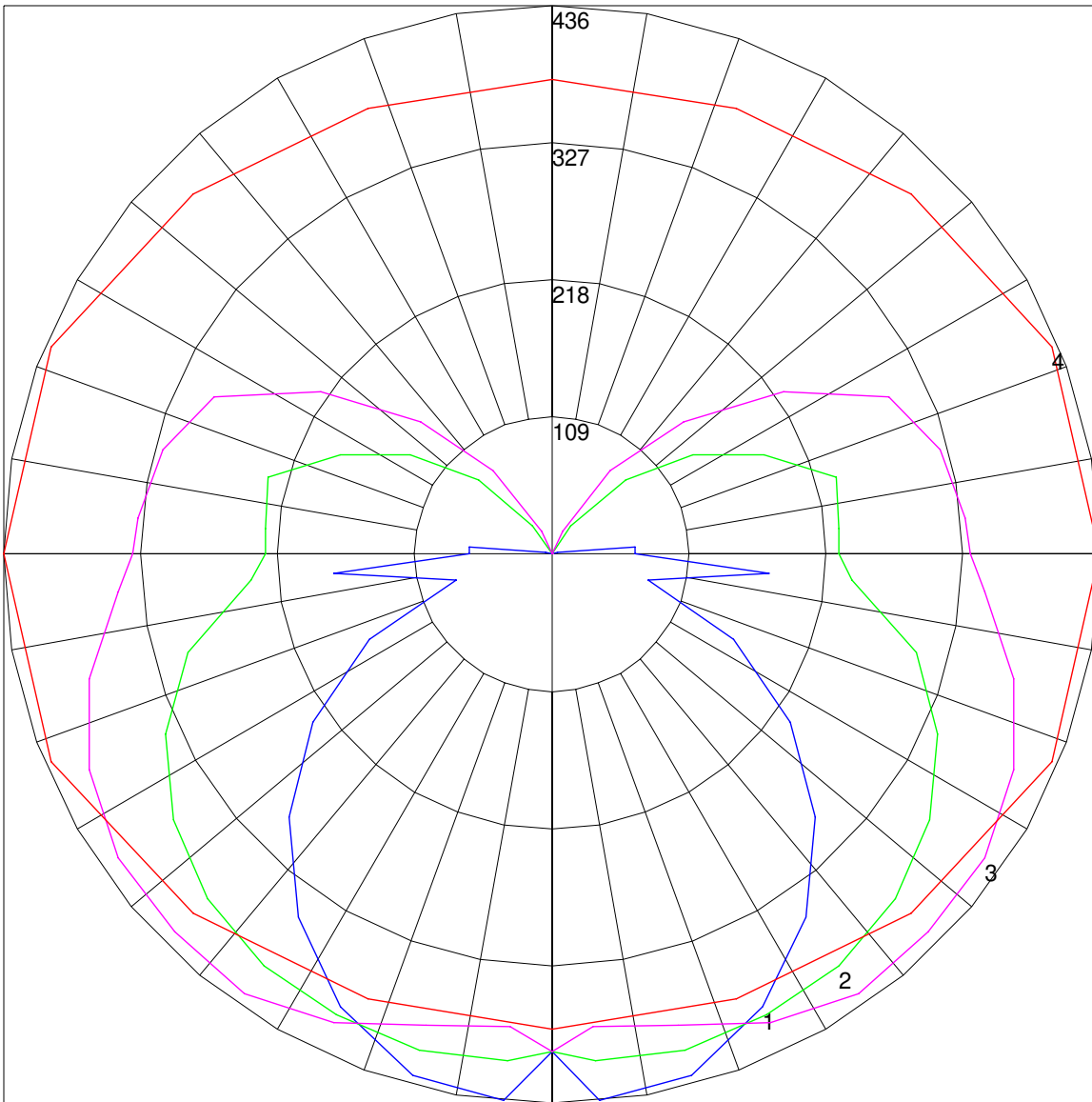
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 | 103 | 103 | 103 | 103 | 92 | 92 | 92 | 82 | 82 | 82 | 73 | 73 | 73 | 69 |
| 1  | 93  | 86  | 80  | 74  | 87  | 81  | 75  | 70  | 72 | 67 | 63 | 63 | 60 | 56 | 55 | 52 | 50 | 46 |
| 2  | 83  | 72  | 64  | 56  | 77  | 68  | 60  | 54  | 60 | 54 | 48 | 52 | 47 | 43 | 46 | 42 | 38 | 34 |
| 3  | 74  | 62  | 52  | 45  | 69  | 58  | 49  | 42  | 51 | 44 | 38 | 45 | 39 | 34 | 39 | 34 | 30 | 27 |
| 4  | 67  | 54  | 44  | 36  | 63  | 51  | 42  | 35  | 45 | 37 | 31 | 39 | 33 | 28 | 34 | 29 | 25 | 21 |
| 5  | 61  | 47  | 37  | 30  | 57  | 44  | 35  | 29  | 39 | 32 | 26 | 34 | 28 | 23 | 30 | 25 | 20 | 17 |
| 6  | 56  | 42  | 32  | 26  | 52  | 39  | 31  | 24  | 35 | 27 | 22 | 31 | 24 | 20 | 27 | 21 | 17 | 15 |
| 7  | 52  | 37  | 28  | 22  | 48  | 35  | 27  | 21  | 31 | 24 | 19 | 28 | 21 | 17 | 24 | 19 | 15 | 12 |
| 8  | 48  | 34  | 25  | 19  | 45  | 32  | 24  | 18  | 28 | 21 | 16 | 25 | 19 | 15 | 22 | 17 | 13 | 11 |
| 9  | 44  | 31  | 22  | 17  | 42  | 29  | 21  | 16  | 26 | 19 | 14 | 23 | 17 | 13 | 20 | 15 | 11 | 9  |
| 10 | 41  | 28  | 20  | 15  | 39  | 27  | 19  | 14  | 24 | 17 | 13 | 21 | 15 | 11 | 18 | 14 | 10 | 8  |

POLAR GRAPH



Maximum Candela = 436 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.) : BLUE  
# 2 - Vertical Plane Through Horizontal Angles (45 - 225) : GREEN  
# 3 - Vertical Plane Through Horizontal Angles (90 - 270) : MAGENTA  
# 4 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.) : RED