

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : TRI-I-12-70MH-F05.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] Photopia 2015.0.1  
[TESTLAB] TMS LIGHTING INC.  
[ISSUE DATE] Jan. 18, 2017  
[TEST DATE] Jan. 18, 2017  
[MANUFAC] TMS LIGHTING INC.  
[LUMCAT] TRISHA PENDANT  
[MORE] 12" DIA. RLM REFLECTOR  
[MORE] WHITE POLYESTER POWDER COAT  
[LUMINAIRE] TRI-I-12-70MH-F05  
[LAMP] 70W METAL HALIDE  
[LAMP CAT] E-17 LAMP, E-26 BASE

**CHARACTERISTICS**

|                                 |                     |
|---------------------------------|---------------------|
| Lumens Per Lamp                 | 5500 (1 lamp)       |
| Total Lamp Lumens               | 5500                |
| Luminaire Lumens                | 3937                |
| Total Luminaire Efficiency      | 72 %                |
| Luminaire Efficacy Rating (LER) | 50                  |
| Total Luminaire Watts           | 79                  |
| Ballast Factor                  | 1.00                |
| CIE Type                        | Direct              |
| Spacing Criteria (0-180)        | 1.34                |
| Spacing Criteria (90-270)       | 1.40                |
| Spacing Criteria (Diagonal)     | 1.48                |
| Basic Luminous Shape            | Rectangular w/Sides |
| Luminous Length (0-180)         | 0.99 ft             |
| Luminous Width (90-270)         | 0.99 ft             |
| Luminous Height                 | 0.81 ft             |

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

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 9014             | 7659              | 8969              |
| 55                  | 6381             | 5154              | 6436              |
| 65                  | 3906             | 3161              | 3989              |
| 75                  | 1925             | 1395              | 1910              |
| 85                  | 460              | 284               | 380               |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : TRI-I-12-70MH-F05.IES**

**ZONAL LUMEN SUMMARY**

| Zone   | Lumens  | %Lamp | %Fixt  |
|--------|---------|-------|--------|
| 0-30   | 1089.92 | 19.80 | 27.70  |
| 0-40   | 1832.23 | 33.30 | 46.50  |
| 0-60   | 3282.87 | 59.70 | 83.40  |
| 0-90   | 3936.35 | 71.60 | 100.00 |
| 90-120 | 0.94    | 0.00  | 0.00   |
| 90-130 | 0.94    | 0.00  | 0.00   |
| 90-150 | 0.94    | 0.00  | 0.00   |
| 90-180 | 0.94    | 0.00  | 0.00   |
| 0-180  | 3937.28 | 71.60 | 100.00 |

Total Luminaire Efficiency = 71.60%

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 127.48 |
| 10-20   | 373.95 |
| 20-30   | 588.49 |
| 30-40   | 742.31 |
| 40-50   | 796.30 |
| 50-60   | 654.33 |
| 60-70   | 415.23 |
| 70-80   | 193.85 |
| 80-90   | 44.39  |
| 90-100  | 0.94   |
| 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   |

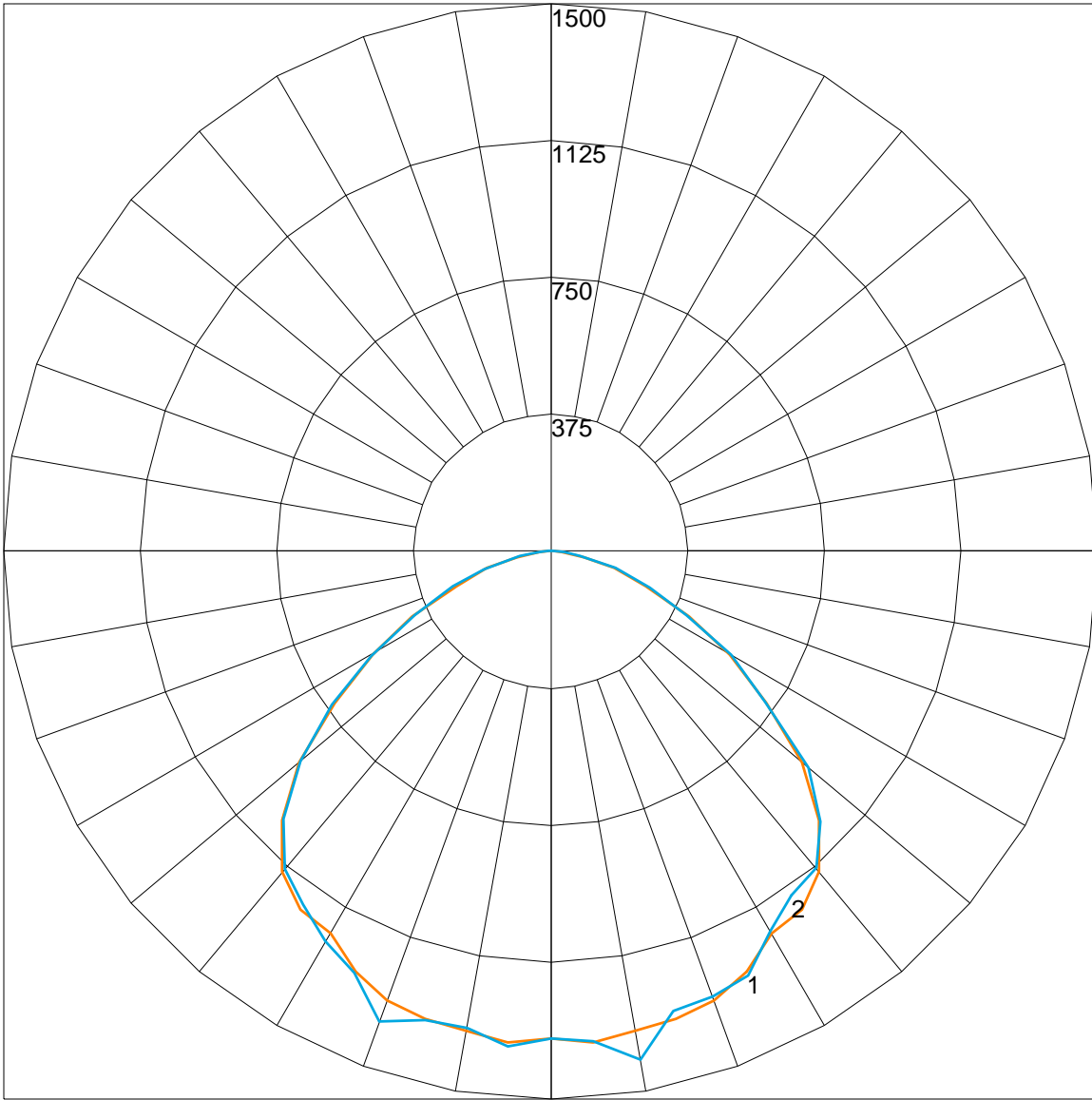
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : TRI-I-12-70MH-F05.IES**

**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 |    |
| 0  | 85 | 85 | 85 | 85 | 83 | 83 | 83 | 83 | 80 | 80 | 80 | 76 | 76 | 76 | 73 | 73 | 73 | 72 |
| 1  | 78 | 75 | 72 | 70 | 76 | 74 | 71 | 69 | 70 | 68 | 66 | 68 | 66 | 64 | 65 | 64 | 62 | 61 |
| 2  | 72 | 66 | 61 | 57 | 70 | 65 | 60 | 57 | 62 | 58 | 55 | 60 | 57 | 54 | 58 | 55 | 53 | 51 |
| 3  | 65 | 58 | 52 | 48 | 64 | 57 | 52 | 47 | 55 | 50 | 47 | 53 | 49 | 46 | 51 | 48 | 45 | 43 |
| 4  | 60 | 51 | 45 | 41 | 58 | 51 | 45 | 40 | 49 | 44 | 40 | 47 | 43 | 39 | 46 | 42 | 39 | 37 |
| 5  | 55 | 46 | 40 | 35 | 54 | 45 | 39 | 35 | 44 | 38 | 34 | 42 | 38 | 34 | 41 | 37 | 34 | 32 |
| 6  | 51 | 41 | 35 | 31 | 49 | 41 | 35 | 30 | 39 | 34 | 30 | 38 | 33 | 30 | 37 | 33 | 30 | 28 |
| 7  | 47 | 37 | 31 | 27 | 46 | 37 | 31 | 27 | 36 | 30 | 27 | 35 | 30 | 26 | 34 | 29 | 26 | 25 |
| 8  | 44 | 34 | 28 | 24 | 43 | 34 | 28 | 24 | 33 | 27 | 24 | 32 | 27 | 24 | 31 | 27 | 23 | 22 |
| 9  | 41 | 31 | 25 | 21 | 40 | 31 | 25 | 21 | 30 | 25 | 21 | 29 | 25 | 21 | 29 | 24 | 21 | 20 |
| 10 | 38 | 29 | 23 | 19 | 37 | 28 | 23 | 19 | 28 | 23 | 19 | 27 | 22 | 19 | 26 | 22 | 19 | 18 |

POLAR GRAPH



Maximum Candela = 1412.46 Located At Horizontal Angle = 0, Vertical Angle = 10  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Vertical Plane Through Horizontal Angles (0 - 180)