

# Photometric Test Report

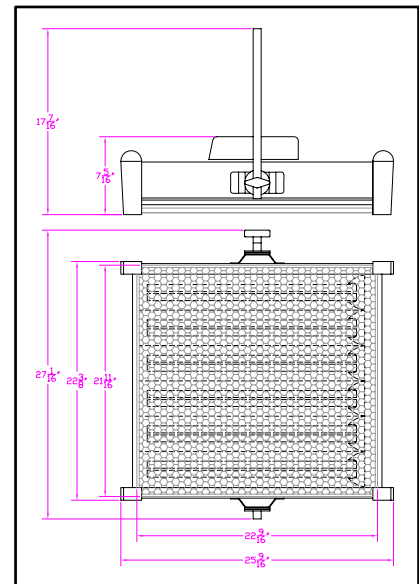
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L01120106.IES**

## DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] L01120106  
[TESTLAB] LIGHT LABORATORY, INC.  
[ISSUEDATE] 1/12/2011  
[MANUFAC] KINOFLO  
[LUMCAT] **IMARA S6 90 DEGREE**  
[LUMINAIRE] 25-9/16"L. X 22-9/16"W. X 7-5/16"H. IMARA S6 FIXTURE  
[MORE] SIX 55W COMPACT FLUORESCENT LAMPS, SPECULAR REFLECTOR  
[MORE] WITH 90 DEGREE LOUVER  
[BALLASTCAT] N.A  
[BALLAST] 120V 60Hz ELECTRONIC  
[LAMPPOSITION] 90,180  
[LAMPCAT] **KINOFLO TRUE MATCH 55C-K55**  
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
[\_INPUT] 120VAC, 309.50W

## CHARACTERISTICS

|                                 |                 |
|---------------------------------|-----------------|
| Lumens Per Lamp                 | N.A. (absolute) |
| Total Lamp Lumens               | N.A. (absolute) |
| Luminaire Lumens                | 2543            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 8               |
| Total Luminaire Watts           | 309.5           |
| Ballast Factor                  | 1.00            |
| CIE Type                        | Direct          |
| Spacing Criterion (0-180)       | 0.66            |
| Spacing Criterion (90-270)      | 0.68            |
| Spacing Criterion (Diagonal)    | 0.76            |
| Basic Luminous Shape            | Rectangular     |
| Luminous Length (0-180)         | 1.88 ft         |
| Luminous Width (90-270)         | 1.81 ft         |
| Luminous Height                 | 0.00 ft         |



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

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 541              | 456               | 697               |
| 55                  | 347              | 281               | 193               |
| 65                  | 456              | 217               | 172               |
| 75                  | 672              | 256               | 232               |
| 85                  | 725              | 653               | 653               |

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CANDELA TABULATION

|           | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|-----------|------------|-------------|-------------|-------------|-------------|
| <b>0</b>  | 3920       | 3920        | 3920        | 3920        | 3920        |
| <b>5</b>  | 3542       | 3568        | 3598        | 3585        | 3580        |
| <b>10</b> | 3073       | 3103        | 3158        | 3151        | 3160        |
| <b>15</b> | 2570       | 2593        | 2707        | 2670        | 2670        |
| <b>20</b> | 2054       | 2076        | 2194        | 2170        | 2165        |
| <b>25</b> | 1567       | 1585        | 1692        | 1671        | 1636        |
| <b>30</b> | 1118       | 1116        | 1196        | 1215        | 1169        |
| <b>35</b> | 714        | 682         | 731         | 774         | 753         |
| <b>40</b> | 372        | 327         | 337         | 413         | 412         |
| <b>45</b> | 121        | 122         | 102         | 129         | 156         |
| <b>50</b> | 79         | 77          | 70          | 58          | 61          |
| <b>55</b> | 63         | 60          | 51          | 43          | 35          |
| <b>60</b> | 62         | 51          | 39          | 33          | 27          |
| <b>65</b> | 61         | 45          | 29          | 26          | 23          |
| <b>70</b> | 66         | 43          | 24          | 22          | 21          |
| <b>75</b> | 55         | 22          | 21          | 20          | 19          |
| <b>80</b> | 45         | 20          | 19          | 19          | 18          |
| <b>85</b> | 20         | 19          | 18          | 18          | 18          |
| <b>90</b> | 24         | 21          | 19          | 19          | 20          |

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**ZONAL LUMEN SUMMARY**

| Zone   | Lumens  | %Lamp | %Fixt  |
|--------|---------|-------|--------|
| 0-30   | 1817.74 | N.A.  | 71.50  |
| 0-40   | 2280.29 | N.A.  | 89.70  |
| 0-60   | 2457.15 | N.A.  | 96.60  |
| 0-90   | 2542.92 | N.A.  | 100.00 |
| 90-120 | 0.00    | N.A.  | 0.00   |
| 90-130 | 0.00    | N.A.  | 0.00   |
| 90-150 | 0.00    | N.A.  | 0.00   |
| 90-180 | 0.00    | N.A.  | 0.00   |
| 0-180  | 2542.92 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 329.68 |
| 10-20   | 737.18 |
| 20-30   | 750.88 |
| 30-40   | 462.55 |
| 40-50   | 129.47 |
| 50-60   | 47.39  |
| 60-70   | 36.19  |
| 70-80   | 27.87  |
| 80-90   | 21.72  |
| 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   |

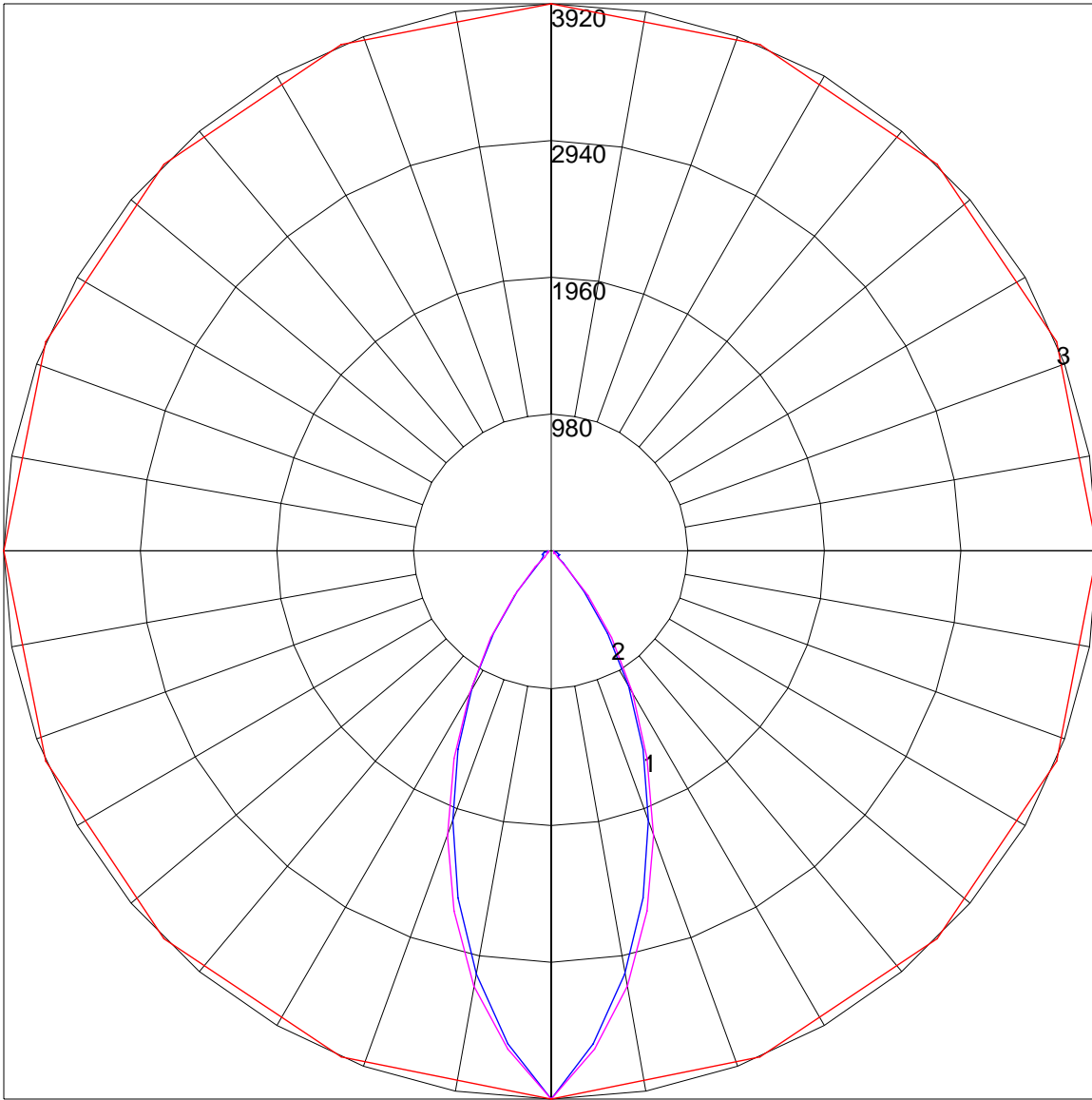
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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  | 119 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1  | 113 | 110 | 107 | 105 | 111 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 99  | 97  | 97  | 95  | 94  | 92  | 92  |
| 2  | 107 | 102 | 98  | 94  | 105 | 100 | 97  | 93  | 97  | 94  | 91  | 94  | 92  | 89  | 91  | 89  | 87  | 86  | 86  |
| 3  | 102 | 95  | 90  | 86  | 100 | 94  | 89  | 85  | 91  | 87  | 84  | 89  | 85  | 83  | 86  | 84  | 81  | 80  | 80  |
| 4  | 97  | 89  | 83  | 79  | 95  | 88  | 83  | 79  | 86  | 81  | 78  | 84  | 80  | 77  | 82  | 79  | 76  | 74  | 74  |
| 5  | 92  | 84  | 78  | 73  | 90  | 83  | 77  | 73  | 81  | 76  | 72  | 79  | 75  | 72  | 78  | 74  | 71  | 70  | 70  |
| 6  | 88  | 79  | 73  | 68  | 86  | 78  | 72  | 68  | 76  | 71  | 68  | 75  | 70  | 67  | 74  | 70  | 67  | 65  | 65  |
| 7  | 83  | 74  | 68  | 64  | 82  | 73  | 68  | 64  | 72  | 67  | 63  | 71  | 66  | 63  | 70  | 66  | 63  | 61  | 61  |
| 8  | 80  | 70  | 64  | 60  | 78  | 69  | 64  | 60  | 68  | 63  | 60  | 67  | 63  | 59  | 66  | 62  | 59  | 58  | 58  |
| 9  | 76  | 66  | 61  | 57  | 75  | 66  | 60  | 56  | 65  | 60  | 56  | 64  | 59  | 56  | 63  | 59  | 56  | 55  | 55  |
| 10 | 73  | 63  | 57  | 53  | 72  | 63  | 57  | 53  | 62  | 57  | 53  | 61  | 56  | 53  | 60  | 56  | 53  | 52  | 52  |

POLAR GRAPH



Maximum Candela = 3920 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.) : BLUE  
# 2 - Vertical Plane Through Horizontal Angles (90 - 270) : MAGENTA  
# 3 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.) : RED