



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 2FT DOUBLE BLACK LOUVER.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LLI 0108-06E  
[TESTLAB] LIGHT LABORATORY INC  
[ISSUE DATE] 2/26/2008  
[MANUFAC] KINO FLO, INC.  
[LUMCAT] 2FT DOUBLE/BLACK SQUARE LOUVERS  
[LUMINAIRE] 27-3/4"L. X 7-1/2"W. X 3-9/16"H. STUDIO FIXTURE  
[MORE] SPECULAR REFLECTOR  
[MORE] BLACK SQUARE LOUVERS  
[BALLASTCAT] KINOFLO BAL-200-S120, BAL-210-S120, BAL-215-120, BAL-227-120U  
[BALLAST] 110/120V 50/60Hz ELECTRONIC  
[LAMPPOSITION] 0,90  
[LAMPCAT] KINO FLO K29 F40/T12/HO/800  
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
[\_LAMPLUM] 1625  
[\_INPUT] 120VAC, 63.29W

**CHARACTERISTICS**

|                                 |                 |
|---------------------------------|-----------------|
| Lumens Per Lamp                 | N.A. (absolute) |
| Total Lamp Lumens               | N.A. (absolute) |
| Luminaire Lumens                | 571             |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 9               |
| Total Luminaire Watts           | 63.29           |
| Ballast Factor                  | 1.00            |
| CIE Type                        | Direct          |
| Spacing Criteria (0-180)        | 0.92            |
| Spacing Criteria (90-270)       | 0.92            |
| Spacing Criteria (Diagonal)     | 0.96            |
| Basic Luminous Shape            | Rectangular     |
| Luminous Length (0-180)         | 1.94 ft         |
| Luminous Width (90-270)         | 0.55 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                  | 1710             | 1582              | 1810              |
| 55                  | 668              | 756               | 597               |
| 65                  | 334              | 191               | 262               |
| 75                  | 428              | 312               | 389               |
| 85                  | 809              | 925               | 1156              |



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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>  | 458        | 458         | 458         | 458         | 458         |
| <b>5</b>  | 446        | 444         | 442         | 441         | 441         |
| <b>15</b> | 380        | 371         | 372         | 377         | 384         |
| <b>25</b> | 296        | 285         | 280         | 289         | 302         |
| <b>35</b> | 210        | 198         | 194         | 204         | 219         |
| <b>45</b> | 120        | 112         | 111         | 117         | 127         |
| <b>55</b> | 38         | 39          | 43          | 39          | 34          |
| <b>65</b> | 14         | 11          | 8           | 10          | 11          |
| <b>75</b> | 11         | 9           | 8           | 10          | 10          |
| <b>85</b> | 7          | 9           | 8           | 10          | 10          |
| <b>90</b> | 3          | 6           | 3           | 1           | 1           |

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**ZONAL LUMEN SUMMARY**

| Zone   | Lumens | %Lamp | %Fixt  |
|--------|--------|-------|--------|
| 0-30   | 212.88 | N.A.  | 37.30  |
| 0-40   | 347.29 | N.A.  | 60.80  |
| 0-60   | 524.47 | N.A.  | 91.80  |
| 0-90   | 571.27 | 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  | 571.27 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 10.77  |
| 10-20   | 77.80  |
| 20-30   | 124.32 |
| 30-40   | 134.41 |
| 40-50   | 112.11 |
| 50-60   | 65.07  |
| 60-70   | 23.53  |
| 70-80   | 10.16  |
| 80-90   | 13.09  |
| 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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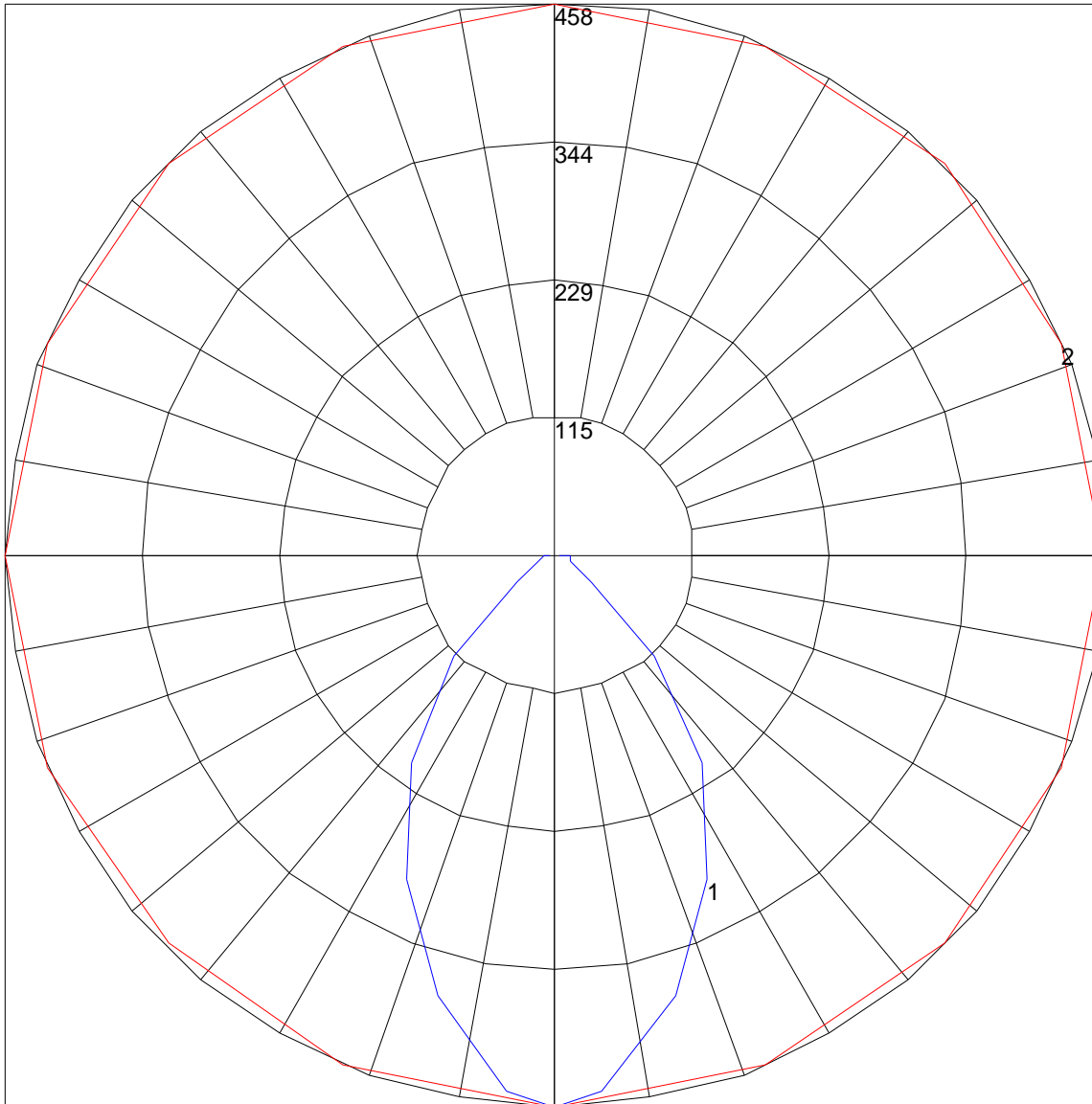
**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1  | 111 | 106 | 103 | 100 | 108 | 104 | 101 | 98  | 100 | 97  | 95  | 96  | 94  | 92  | 93  | 91  | 89  | 87  |
| 2  | 102 | 95  | 90  | 85  | 100 | 94  | 88  | 84  | 90  | 86  | 82  | 87  | 83  | 80  | 84  | 81  | 78  | 76  |
| 3  | 95  | 86  | 79  | 73  | 92  | 84  | 78  | 72  | 81  | 76  | 71  | 79  | 74  | 70  | 76  | 72  | 69  | 67  |
| 4  | 88  | 77  | 70  | 64  | 86  | 76  | 69  | 63  | 74  | 67  | 62  | 71  | 66  | 62  | 69  | 65  | 61  | 59  |
| 5  | 81  | 70  | 62  | 56  | 79  | 69  | 61  | 56  | 67  | 60  | 55  | 65  | 59  | 55  | 63  | 58  | 54  | 52  |
| 6  | 75  | 63  | 55  | 50  | 74  | 63  | 55  | 49  | 61  | 54  | 49  | 59  | 53  | 49  | 58  | 52  | 48  | 46  |
| 7  | 70  | 58  | 50  | 44  | 69  | 57  | 50  | 44  | 56  | 49  | 44  | 54  | 48  | 44  | 53  | 47  | 43  | 41  |
| 8  | 65  | 53  | 45  | 40  | 64  | 52  | 45  | 40  | 51  | 44  | 39  | 50  | 44  | 39  | 49  | 43  | 39  | 37  |
| 9  | 61  | 49  | 41  | 36  | 60  | 48  | 41  | 36  | 47  | 40  | 36  | 46  | 40  | 35  | 45  | 39  | 35  | 34  |
| 10 | 57  | 45  | 38  | 33  | 56  | 44  | 37  | 33  | 44  | 37  | 32  | 43  | 37  | 32  | 42  | 36  | 32  | 30  |

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**POLAR GRAPH**



Maximum Candela = 458 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.)