

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : CELEB 400, 400Q 90 DEGREE LOUVER L09137105.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L09137104  
[TESTLAB] LIGHT LABORATORY, INC.  
[ISSUE DATE] 10/4/2013  
[MANUFAC] KINO FLO LIGHTING SYSTEMS  
[LUMCAT] CEL-400C-120U, CEL-400Q-120U  
[LUMINAIRE] 24"L. X 49-3/4"W. X 12-1/2"H. LED LUMINAIRE  
[MORE] DIFFUSED LENS  
[MORE] 90° LOUVER  
[BALLASTCAT] CUSTOM DRIVER  
[BALLAST] INPUT: 100-240VAC, 50/60Hz., 200W  
[LAMPPOSITION] 0,0  
[LAMPCAT] N/A  
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
[\_INPUT] 120VAC, 218.24W  
[\_TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

|                                 |                 |
|---------------------------------|-----------------|
| Lumens Per Lamp                 | N.A. (absolute) |
| Total Lamp Lumens               | N.A. (absolute) |
| Luminaire Lumens                | 2618            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 12              |
| Total Luminaire Watts           | 218.24          |
| Ballast Factor                  | 1.00            |
| CIE Type                        | Direct          |
| Spacing Criteria (0-180)        | 0.64            |
| Spacing Criteria (90-270)       | 0.72            |
| Spacing Criteria (Diagonal)     | 0.74            |
| Basic Luminous Shape            | Rectangular     |
| Luminous Length (0-180)         | 0.92 ft         |
| Luminous Width (90-270)         | 3.67 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                  | 270              | 315               | 775               |
| 55                  | 344              | 228               | 194               |
| 65                  | 746              | 354               | 203               |
| 75                  | 1723             | 1021              | 357               |
| 85                  | 3508             | 2704              | 1279              |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : CELEB 400, 400Q 90 DEGREE LOUVER L09137105.IES****CANDELA TABULATION**

|           | <b>0</b> | <b>5</b> | <b>15</b> | <b>25</b> | <b>35</b> | <b>45</b> | <b>55</b> | <b>65</b> | <b>75</b> | <b>85</b> |
|-----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>0</b>  | 3987     | 3987     | 3987      | 3987      | 3987      | 3987      | 3987      | 3987      | 3987      | 3987      |
| <b>5</b>  | 3655     | 3658     | 3664      | 3674      | 3691      | 3709      | 3730      | 3747      | 3760      | 3763      |
| <b>10</b> | 3122     | 3125     | 3147      | 3180      | 3212      | 3245      | 3272      | 3289      | 3304      | 3317      |
| <b>15</b> | 2557     | 2561     | 2590      | 2641      | 2696      | 2742      | 2769      | 2780      | 2801      | 2821      |
| <b>20</b> | 2006     | 2010     | 2037      | 2092      | 2161      | 2217      | 2248      | 2266      | 2285      | 2305      |
| <b>25</b> | 1474     | 1477     | 1497      | 1541      | 1610      | 1680      | 1726      | 1754      | 1768      | 1775      |
| <b>30</b> | 982      | 983      | 989       | 1011      | 1063      | 1145      | 1220      | 1261      | 1270      | 1263      |
| <b>35</b> | 544      | 543      | 537       | 543       | 574       | 640       | 738       | 798       | 806       | 801       |
| <b>40</b> | 189      | 192      | 198       | 212       | 227       | 252       | 304       | 375       | 407       | 425       |
| <b>45</b> | 60       | 60       | 62        | 68        | 71        | 70        | 74        | 96        | 130       | 165       |
| <b>50</b> | 58       | 58       | 56        | 53        | 49        | 46        | 45        | 44        | 44        | 52        |
| <b>55</b> | 62       | 62       | 59        | 54        | 48        | 41        | 37        | 36        | 35        | 35        |
| <b>60</b> | 74       | 74       | 69        | 61        | 51        | 42        | 34        | 31        | 30        | 29        |
| <b>65</b> | 99       | 98       | 92        | 80        | 63        | 47        | 36        | 28        | 27        | 27        |
| <b>70</b> | 123      | 122      | 115       | 103       | 85        | 64        | 43        | 31        | 27        | 27        |
| <b>75</b> | 140      | 139      | 133       | 120       | 103       | 83        | 61        | 40        | 30        | 29        |
| <b>80</b> | 145      | 144      | 138       | 127       | 113       | 96        | 76        | 55        | 36        | 31        |
| <b>85</b> | 96       | 96       | 94        | 89        | 81        | 74        | 70        | 59        | 46        | 35        |
| <b>90</b> | 0        | 0        | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         |

**Vert. Horizontal Angles**

|           | <b>90</b> |
|-----------|-----------|
| <b>0</b>  | 3987      |
| <b>5</b>  | 3764      |
| <b>10</b> | 3318      |
| <b>15</b> | 2826      |
| <b>20</b> | 2309      |
| <b>25</b> | 1776      |
| <b>30</b> | 1261      |
| <b>35</b> | 800       |
| <b>40</b> | 428       |
| <b>45</b> | 172       |
| <b>50</b> | 56        |
| <b>55</b> | 35        |
| <b>60</b> | 29        |
| <b>65</b> | 27        |
| <b>70</b> | 27        |
| <b>75</b> | 29        |
| <b>80</b> | 31        |
| <b>85</b> | 35        |
| <b>90</b> | 0         |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : CELEB 400, 400Q 90 DEGREE LOUVER L09137105.IES****ZONAL LUMEN SUMMARY**

| Zone   | Lumens  | %Lamp | %Fixt  |
|--------|---------|-------|--------|
| 0-30   | 1849.5  | N.A.  | 70.60  |
| 0-40   | 2273.21 | N.A.  | 86.80  |
| 0-60   | 2412.84 | N.A.  | 92.20  |
| 0-90   | 2618.31 | 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  | 2618.31 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 340.39 |
| 10-20   | 755.68 |
| 20-30   | 753.42 |
| 30-40   | 423.71 |
| 40-50   | 97.71  |
| 50-60   | 41.92  |
| 60-70   | 56.21  |
| 70-80   | 85.58  |
| 80-90   | 63.68  |
| 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   |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : CELEB 400, 400Q 90 DEGREE LOUVER L09137105.IES****COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

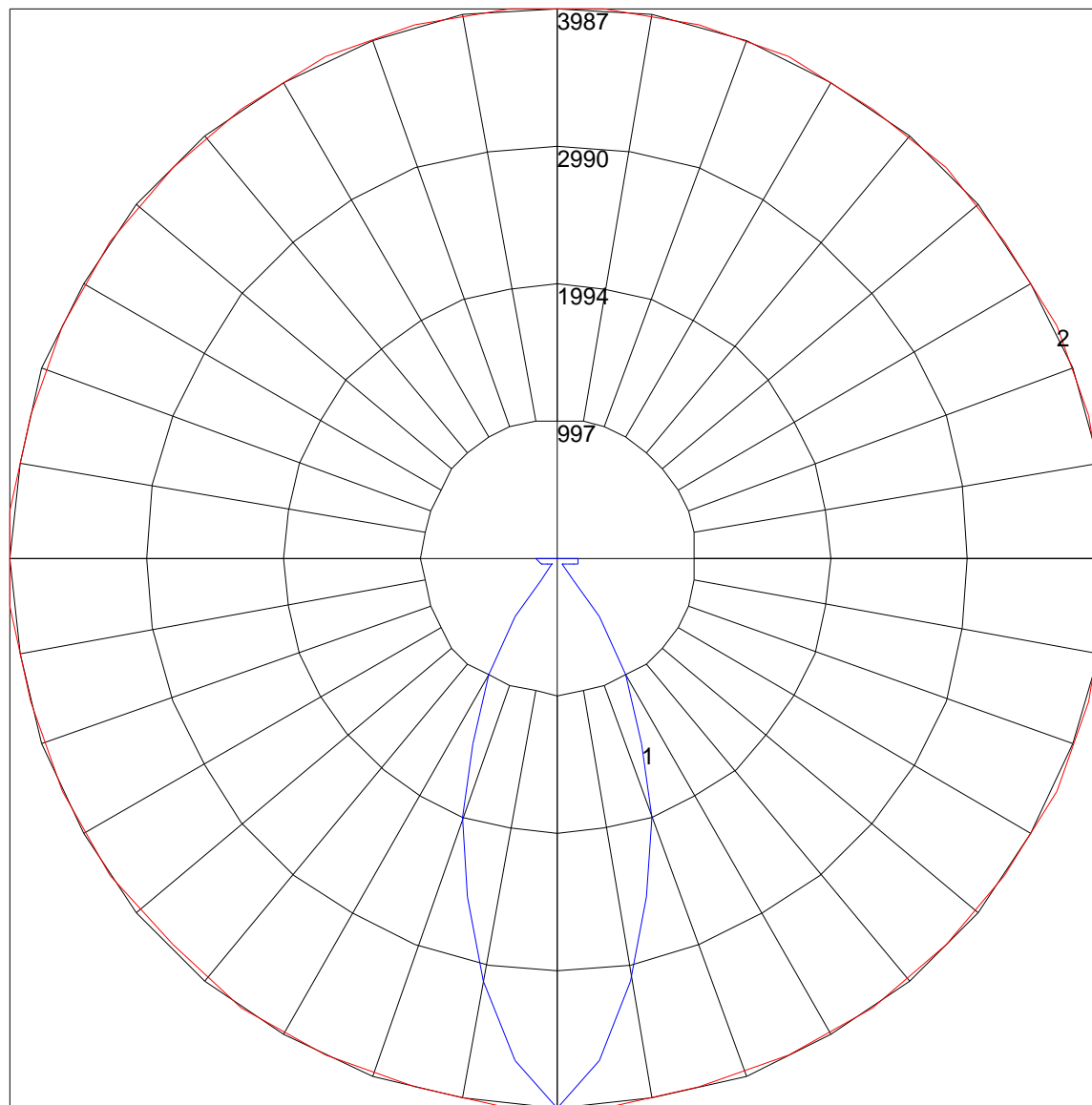
| RC | 80  |     |     |     | 70  |     |     |     | 50  |     |     | 30  |     |     | 10  |     |     | 0   |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RW | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 0   |
| 0  | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1  | 112 | 109 | 106 | 103 | 109 | 106 | 104 | 101 | 102 | 100 | 98  | 98  | 97  | 95  | 95  | 94  | 92  | 90  |
| 2  | 106 | 100 | 96  | 92  | 104 | 98  | 94  | 91  | 95  | 92  | 89  | 92  | 89  | 87  | 89  | 87  | 85  | 83  |
| 3  | 100 | 93  | 88  | 83  | 98  | 92  | 87  | 83  | 89  | 85  | 81  | 87  | 83  | 80  | 84  | 81  | 79  | 77  |
| 4  | 95  | 87  | 81  | 77  | 93  | 86  | 80  | 76  | 84  | 79  | 75  | 82  | 78  | 74  | 80  | 76  | 74  | 72  |
| 5  | 91  | 82  | 76  | 71  | 89  | 81  | 75  | 71  | 79  | 74  | 70  | 77  | 73  | 70  | 76  | 72  | 69  | 67  |
| 6  | 86  | 77  | 71  | 66  | 85  | 76  | 70  | 66  | 75  | 70  | 66  | 73  | 69  | 65  | 72  | 68  | 65  | 63  |
| 7  | 82  | 73  | 67  | 62  | 81  | 72  | 66  | 62  | 71  | 66  | 62  | 70  | 65  | 61  | 68  | 64  | 61  | 60  |
| 8  | 79  | 69  | 63  | 59  | 77  | 68  | 62  | 58  | 67  | 62  | 58  | 66  | 61  | 58  | 65  | 61  | 58  | 56  |
| 9  | 75  | 65  | 59  | 55  | 74  | 65  | 59  | 55  | 64  | 59  | 55  | 63  | 58  | 55  | 62  | 58  | 55  | 53  |
| 10 | 72  | 62  | 56  | 52  | 71  | 62  | 56  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 59  | 55  | 52  | 51  |



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### POLAR GRAPH



Maximum Candela = 3987 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.)