



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CELEB 400, 400Q OPEN FACE L09137104.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  
 [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, 219.74W  
 [\_TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

|                                 |                 |
|---------------------------------|-----------------|
| Lumens Per Lamp                 | N.A. (absolute) |
| Total Lamp Lumens               | N.A. (absolute) |
| Luminaire Lumens                | 12399           |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 56              |
| Total Luminaire Watts           | 219.74          |
| Ballast Factor                  | 1.00            |
| CIE Type                        | Direct          |
| Spacing Criteria (0-180)        | 1.22            |
| Spacing Criteria (90-270)       | 1.24            |
| Spacing Criteria (Diagonal)     | 1.36            |
| Basic Luminous Shape            | Rectangular     |
| Luminous Length (0-180)         | 0.83 ft         |
| Luminous Width (90-270)         | 3.58 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                  | 14572            | 14935             | 15262             |
| 55                  | 13478            | 13970             | 14475             |
| 65                  | 12246            | 12717             | 13548             |
| 75                  | 9648             | 9984              | 11215             |
| 85                  | 5730             | 5606              | 7433              |

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**CANDELA TABULATION**

|           | <u>0</u> | <u>5</u> | <u>15</u> | <u>25</u> | <u>35</u> | <u>45</u> | <u>55</u> | <u>65</u> | <u>75</u> | <u>85</u> |
|-----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>0</b>  | 4585     | 4585     | 4585      | 4585      | 4585      | 4585      | 4585      | 4585      | 4585      | 4585      |
| <b>5</b>  | 4551     | 4552     | 4554      | 4558      | 4561      | 4562      | 4562      | 4560      | 4554      | 4552      |
| <b>10</b> | 4473     | 4474     | 4479      | 4481      | 4486      | 4488      | 4490      | 4489      | 4485      | 4484      |
| <b>15</b> | 4351     | 4353     | 4354      | 4360      | 4367      | 4369      | 4376      | 4375      | 4372      | 4373      |
| <b>20</b> | 4186     | 4187     | 4189      | 4197      | 4203      | 4212      | 4219      | 4221      | 4224      | 4222      |
| <b>25</b> | 3979     | 3979     | 3988      | 3994      | 4005      | 4015      | 4024      | 4030      | 4035      | 4037      |
| <b>30</b> | 3742     | 3743     | 3751      | 3758      | 3772      | 3786      | 3800      | 3810      | 3816      | 3819      |
| <b>35</b> | 3471     | 3474     | 3481      | 3493      | 3508      | 3525      | 3541      | 3554      | 3561      | 3568      |
| <b>40</b> | 3174     | 3176     | 3184      | 3197      | 3214      | 3236      | 3257      | 3272      | 3282      | 3291      |
| <b>45</b> | 2847     | 2850     | 2858      | 2873      | 2893      | 2918      | 2941      | 2960      | 2973      | 2982      |
| <b>50</b> | 2497     | 2500     | 2508      | 2524      | 2549      | 2577      | 2602      | 2620      | 2636      | 2647      |
| <b>55</b> | 2136     | 2138     | 2147      | 2163      | 2187      | 2214      | 2241      | 2265      | 2283      | 2293      |
| <b>60</b> | 1809     | 1810     | 1817      | 1832      | 1856      | 1881      | 1911      | 1938      | 1957      | 1968      |
| <b>65</b> | 1430     | 1431     | 1436      | 1447      | 1462      | 1485      | 1514      | 1545      | 1568      | 1580      |
| <b>70</b> | 1052     | 1053     | 1056      | 1062      | 1073      | 1089      | 1112      | 1143      | 1171      | 1185      |
| <b>75</b> | 690      | 691      | 692       | 694       | 702       | 714       | 730       | 753       | 782       | 800       |
| <b>80</b> | 371      | 372      | 370       | 370       | 375       | 382       | 393       | 409       | 430       | 452       |
| <b>85</b> | 138      | 137      | 135       | 132       | 131       | 135       | 139       | 145       | 157       | 174       |
| <b>90</b> | 0        | 0        | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         |

**Vert. Horizontal Angles**  
**Angles**

|           | <u>90</u> |
|-----------|-----------|
| <b>0</b>  | 4585      |
| <b>5</b>  | 4552      |
| <b>10</b> | 4484      |
| <b>15</b> | 4374      |
| <b>20</b> | 4223      |
| <b>25</b> | 4035      |
| <b>30</b> | 3817      |
| <b>35</b> | 3571      |
| <b>40</b> | 3291      |
| <b>45</b> | 2982      |
| <b>50</b> | 2648      |
| <b>55</b> | 2294      |
| <b>60</b> | 1970      |
| <b>65</b> | 1582      |
| <b>70</b> | 1187      |
| <b>75</b> | 802       |
| <b>80</b> | 454       |
| <b>85</b> | 179       |
| <b>90</b> | 0         |



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**ZONAL LUMEN SUMMARY**

| Zone   | Lumens   | %Lamp | %Fixt  |
|--------|----------|-------|--------|
| 0-30   | 3513.09  | N.A.  | 28.30  |
| 0-40   | 5716.39  | N.A.  | 46.10  |
| 0-60   | 9953.39  | N.A.  | 80.30  |
| 0-90   | 12399.42 | 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  | 12399.42 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 432.72  |
| 10-20   | 1231.69 |
| 20-30   | 1848.68 |
| 30-40   | 2203.31 |
| 40-50   | 2248.17 |
| 50-60   | 1988.83 |
| 60-70   | 1480.87 |
| 70-80   | 779.89  |
| 80-90   | 185.26  |
| 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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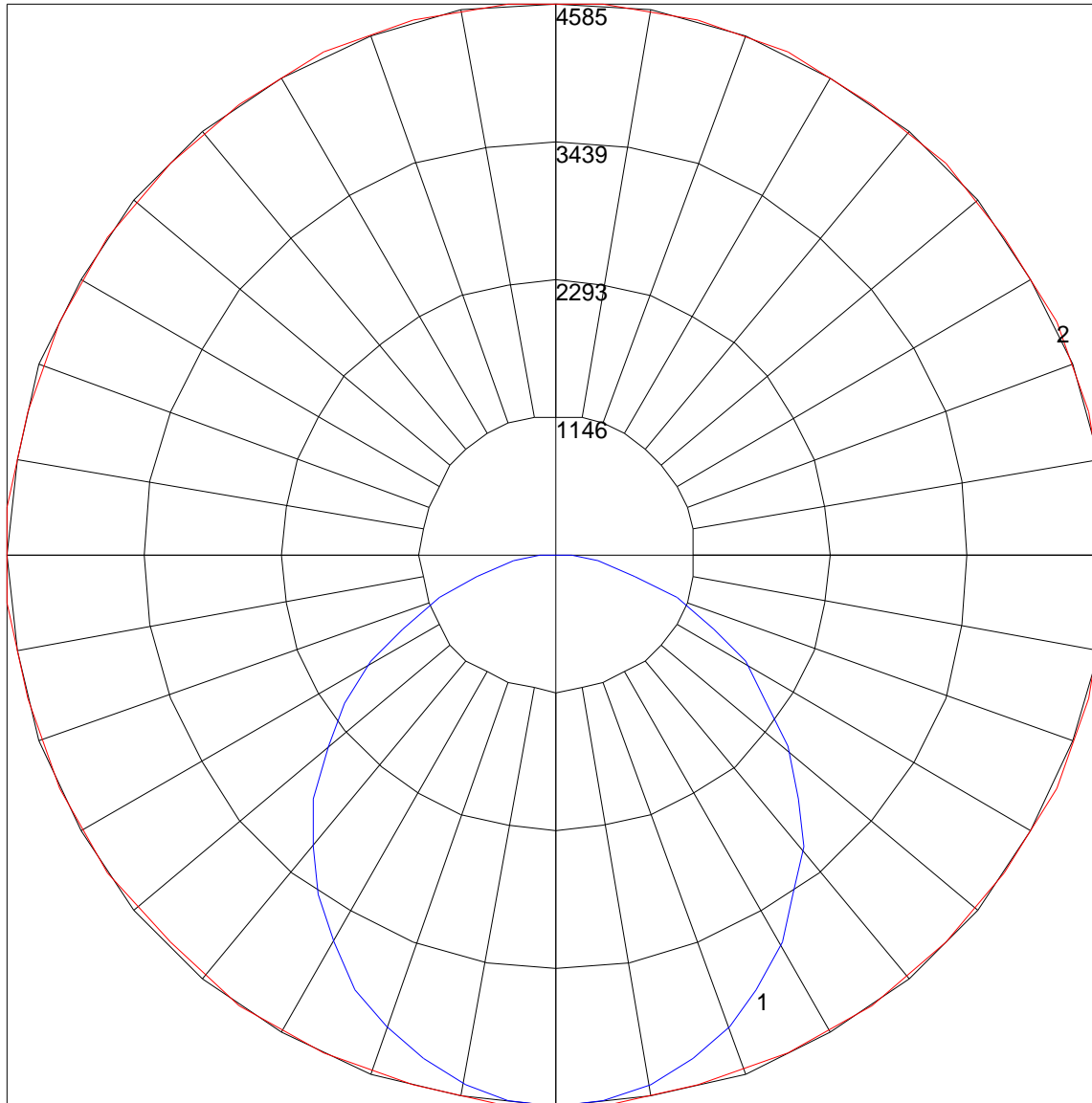
**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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  | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 95  | 98  | 95  | 92  | 94  | 91  | 89  | 90  | 88  | 86  | 84  |
| 2  | 99  | 91  | 84  | 79  | 97  | 89  | 83  | 78  | 86  | 81  | 76  | 82  | 78  | 74  | 79  | 76  | 73  | 70  |
| 3  | 91  | 80  | 72  | 66  | 88  | 79  | 71  | 65  | 76  | 69  | 64  | 73  | 67  | 63  | 70  | 66  | 62  | 60  |
| 4  | 83  | 71  | 62  | 56  | 81  | 70  | 62  | 55  | 67  | 60  | 55  | 65  | 59  | 54  | 63  | 57  | 53  | 51  |
| 5  | 76  | 64  | 55  | 48  | 74  | 62  | 54  | 48  | 60  | 53  | 47  | 58  | 52  | 47  | 56  | 51  | 46  | 44  |
| 6  | 71  | 57  | 48  | 42  | 69  | 56  | 48  | 42  | 55  | 47  | 41  | 53  | 46  | 41  | 51  | 45  | 41  | 39  |
| 7  | 65  | 52  | 43  | 37  | 64  | 51  | 43  | 37  | 50  | 42  | 37  | 48  | 41  | 36  | 47  | 41  | 36  | 34  |
| 8  | 61  | 47  | 39  | 33  | 59  | 47  | 39  | 33  | 45  | 38  | 33  | 44  | 37  | 33  | 43  | 37  | 32  | 31  |
| 9  | 57  | 44  | 35  | 30  | 55  | 43  | 35  | 30  | 42  | 35  | 30  | 41  | 34  | 29  | 40  | 34  | 29  | 27  |
| 10 | 53  | 40  | 32  | 27  | 52  | 40  | 32  | 27  | 39  | 32  | 27  | 38  | 31  | 27  | 37  | 31  | 27  | 25  |

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**POLAR GRAPH**



Maximum Candela = 4585 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.)