

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : CELEB 400, 400Q 60 DEGREE LOUVER L09137106.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] 60° 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, 217.67W
[_TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 1373 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 6 |
| Total Luminaire Watts | 217.67 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criteria (0-180) | 0.44 |
| Spacing Criteria (90-270) | 0.54 |
| Spacing Criteria (Diagonal) | 0.52 |
| 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 Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 131 | 131 | 117 |
| 55 | 239 | 111 | 94 |
| 65 | 678 | 286 | 106 |
| 75 | 1674 | 948 | 283 |
| 85 | 3435 | 2704 | 1133 |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : CELEB 400, 400Q 60 DEGREE LOUVER L09137106.IES****CANDELA TABULATION**

| | 0 | 5 | 15 | 25 | 35 | 45 | 55 | 65 | 75 | 85 |
|-----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 | 3793 | 3793 | 3793 | 3793 | 3793 | 3793 | 3793 | 3793 | 3793 | 3793 |
| 5 | 3208 | 3210 | 3225 | 3247 | 3276 | 3311 | 3350 | 3386 | 3418 | 3434 |
| 10 | 2399 | 2403 | 2432 | 2489 | 2556 | 2621 | 2678 | 2716 | 2742 | 2764 |
| 15 | 1634 | 1637 | 1664 | 1721 | 1807 | 1900 | 1980 | 2022 | 2044 | 2057 |
| 20 | 957 | 958 | 967 | 997 | 1061 | 1171 | 1289 | 1356 | 1378 | 1379 |
| 25 | 391 | 392 | 395 | 410 | 444 | 509 | 633 | 743 | 783 | 796 |
| 30 | 77 | 77 | 85 | 100 | 115 | 129 | 156 | 235 | 313 | 365 |
| 35 | 52 | 52 | 52 | 53 | 53 | 54 | 53 | 55 | 75 | 116 |
| 40 | 38 | 38 | 38 | 38 | 39 | 38 | 38 | 37 | 36 | 37 |
| 45 | 29 | 29 | 30 | 30 | 30 | 29 | 29 | 28 | 27 | 26 |
| 50 | 29 | 28 | 27 | 25 | 24 | 24 | 23 | 22 | 21 | 21 |
| 55 | 43 | 43 | 39 | 33 | 24 | 20 | 19 | 18 | 18 | 17 |
| 60 | 61 | 60 | 55 | 46 | 36 | 23 | 17 | 16 | 16 | 15 |
| 65 | 90 | 89 | 82 | 70 | 52 | 38 | 18 | 15 | 14 | 14 |
| 70 | 116 | 115 | 109 | 96 | 77 | 55 | 36 | 19 | 19 | 19 |
| 75 | 136 | 135 | 128 | 115 | 97 | 77 | 55 | 33 | 23 | 23 |
| 80 | 142 | 142 | 135 | 124 | 109 | 91 | 71 | 49 | 30 | 26 |
| 85 | 94 | 94 | 91 | 86 | 79 | 74 | 68 | 55 | 41 | 30 |
| 90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Vert. Horizontal Angles

| | 90 |
|-----------|-----------|
| 0 | 3793 |
| 5 | 3434 |
| 10 | 2769 |
| 15 | 2059 |
| 20 | 1378 |
| 25 | 797 |
| 30 | 373 |
| 35 | 126 |
| 40 | 41 |
| 45 | 26 |
| 50 | 21 |
| 55 | 17 |
| 60 | 15 |
| 65 | 14 |
| 70 | 19 |
| 75 | 23 |
| 80 | 26 |
| 85 | 31 |
| 90 | 0 |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : CELEB 400, 400Q 60 DEGREE LOUVER L09137106.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|--------|---------|-------|--------|
| 0-30 | 1089.11 | N.A. | 79.30 |
| 0-40 | 1140.95 | N.A. | 83.10 |
| 0-60 | 1187.9 | N.A. | 86.50 |
| 0-90 | 1372.75 | 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 | 1372.75 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A.%

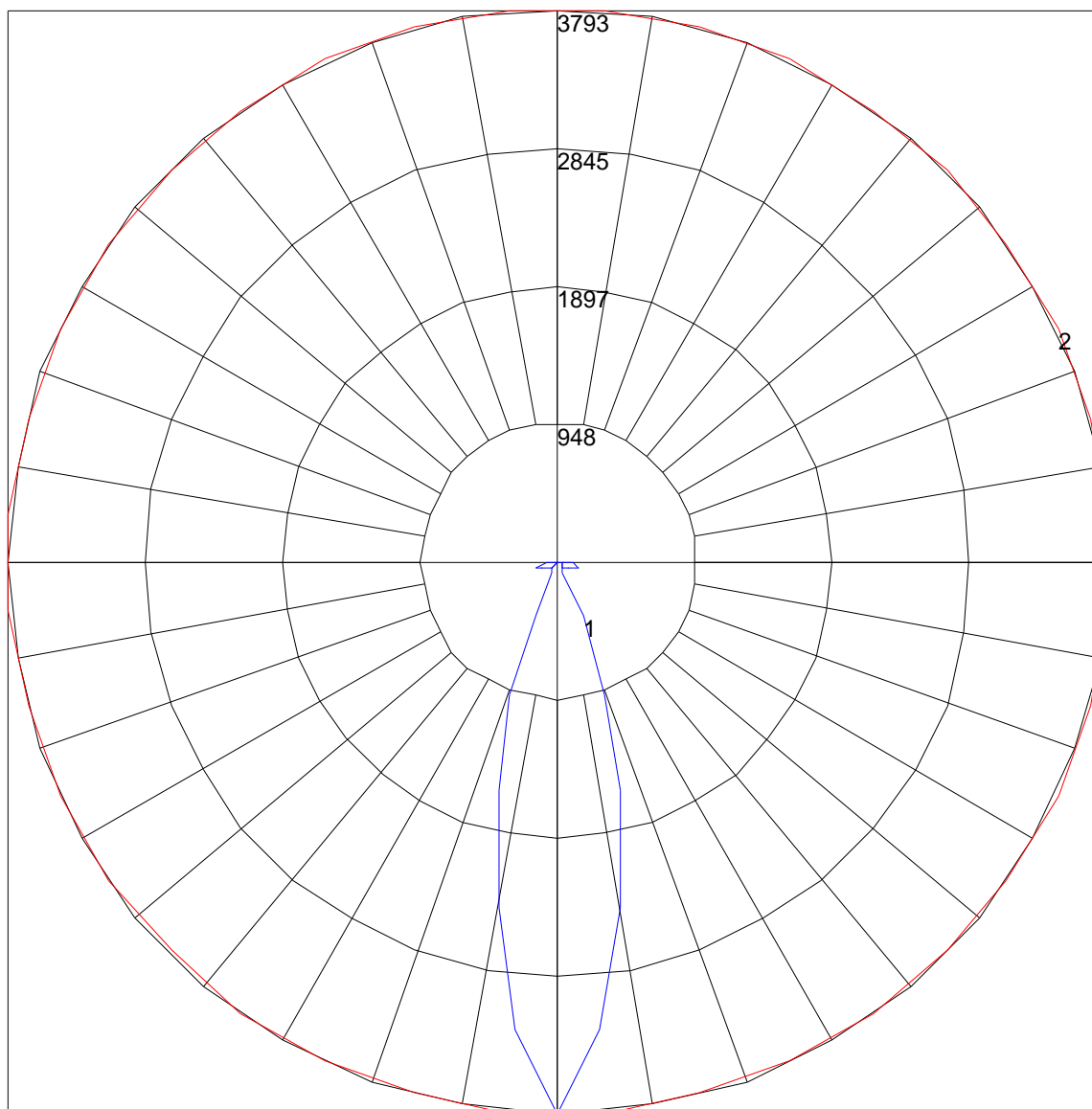
ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 296.69 |
| 10-20 | 515.97 |
| 20-30 | 276.46 |
| 30-40 | 51.84 |
| 40-50 | 22.93 |
| 50-60 | 24.01 |
| 60-70 | 44.65 |
| 70-80 | 79.27 |
| 80-90 | 60.93 |
| 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 60 DEGREE LOUVER L09137106.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 | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 99 | 101 | 99 | 96 | 97 | 95 | 93 | 94 | 92 | 91 | 89 |
| 2 | 105 | 99 | 95 | 91 | 103 | 98 | 93 | 89 | 94 | 91 | 88 | 91 | 88 | 86 | 88 | 86 | 84 | 82 |
| 3 | 100 | 93 | 88 | 83 | 98 | 92 | 87 | 83 | 89 | 85 | 81 | 87 | 83 | 80 | 84 | 81 | 79 | 77 |
| 4 | 96 | 88 | 82 | 78 | 94 | 87 | 82 | 77 | 85 | 80 | 76 | 83 | 79 | 76 | 81 | 77 | 75 | 73 |
| 5 | 92 | 84 | 78 | 73 | 90 | 83 | 77 | 73 | 81 | 76 | 72 | 79 | 75 | 72 | 78 | 74 | 71 | 70 |
| 6 | 89 | 80 | 74 | 70 | 87 | 79 | 74 | 70 | 78 | 73 | 69 | 76 | 72 | 69 | 75 | 71 | 68 | 67 |
| 7 | 85 | 76 | 71 | 67 | 84 | 76 | 70 | 67 | 75 | 70 | 66 | 73 | 69 | 66 | 72 | 68 | 66 | 64 |
| 8 | 82 | 73 | 68 | 64 | 81 | 73 | 68 | 64 | 72 | 67 | 64 | 71 | 66 | 63 | 70 | 66 | 63 | 62 |
| 9 | 79 | 71 | 65 | 61 | 78 | 70 | 65 | 61 | 69 | 64 | 61 | 68 | 64 | 61 | 68 | 64 | 61 | 60 |
| 10 | 77 | 68 | 63 | 59 | 76 | 68 | 63 | 59 | 67 | 62 | 59 | 66 | 62 | 59 | 65 | 61 | 59 | 58 |

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Maximum Candela = 3793 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.)