

**LUMINAIRE:** KXL-24L-X-5K-N  
KxL Kemlux III Led, Extreme Environment  
Kemlux III LED fixture  
**BALLAST:** LED40W54C0700D  
**BALLAST FACTOR:** 1.00  
**LAMP:** Led  
**FIXTURE LUMENS:** 5998  
**WATTS:** 57.40  
**MOUNTING:** Pendant  
**SHIELDING ANGLE:** 0° = 90 90° = 90  
**SPACING CRITERION:** 0° = 1.00 90° = 1.00  
**LUMINOUS OPENING IN FEET**  
LENGTH: 1.00  
WIDTH: 1.00  
HEIGHT: 0.00

TEST #7098

DATE: 6/11/2013

**TOTAL LUMINAIRE EFFICIENCY = 100.0**

**TOTAL LUMENS PER WATT = 104**

**ANSI/IESNA RP-1-2004 COMPLIANCE: YES-VDT INTENSIVE USE**

**COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$2.29**

**BASED ON 3000 HRS. AND \$.08 PER KWH**

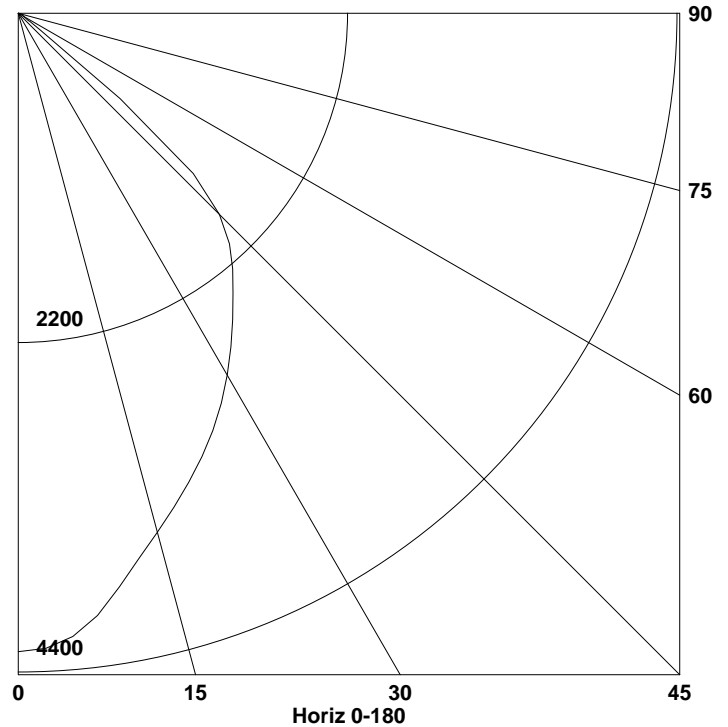
**ZONAL LUMENS**

| ZONE  | LUMENS | % LAMP | % FIXTURE |
|-------|--------|--------|-----------|
| 0-30  | 2818   | 47.0   | 47.0      |
| 0-40  | 4384   | 73.1   | 73.1      |
| 0-60  | 5933   | 98.9   | 98.9      |
| 0-90  | 5998   | 100.0  | 100.0     |
| 0-180 | 5998   | 100.0  | 100.0     |

**AVERAGE LUMINANCE**

| ANGLE | 0.0   |
|-------|-------|
| 0     | 58424 |
| 30    | 44152 |
| 40    | 39842 |
| 45    | 36806 |
| 50    | 18933 |
| 55    | 2294  |
| 60    | 1179  |
| 65    | 1070  |
| 70    | 1122  |
| 75    | 1165  |
| 80    | 1263  |
| 85    | 1258  |

**INDOOR CANDELA PLOT**



0.0 ———

**COEFFICIENTS OF UTILIZATION (%)**

**ZONAL CAVITY METHOD**

**EFFECTIVE FLOOR CAVITY REFLECTANCE = 20%**

| RC  | EFFECTIVE FLOOR CAVITY REFLECTANCE = 20% |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|     | 80%                                      |     |     |     | 70% |     |     |     | 50% |     |     |     | 30% |     |     |     |     |     |     |
| 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 | 102 | 100 |
| 1   | 112                                      | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 94  | 93  | 91  | 91  |
| 2   | 106                                      | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 87  | 84  | 83  | 83  |
| 3   | 99                                       | 91  | 85  | 81  | 97  | 90  | 84  | 80  | 87  | 83  | 79  | 85  | 81  | 78  | 82  | 79  | 76  | 75  | 75  |
| R 4 | 93                                       | 84  | 77  | 72  | 91  | 82  | 76  | 72  | 80  | 75  | 71  | 78  | 74  | 70  | 76  | 72  | 69  | 67  | 67  |
| C 5 | 87                                       | 77  | 70  | 65  | 85  | 76  | 69  | 64  | 74  | 68  | 64  | 72  | 67  | 63  | 70  | 66  | 63  | 61  | 61  |
| R 6 | 81                                       | 71  | 64  | 59  | 80  | 70  | 63  | 58  | 68  | 62  | 58  | 67  | 61  | 57  | 65  | 61  | 57  | 55  | 55  |
| 7   | 76                                       | 65  | 58  | 53  | 75  | 65  | 58  | 53  | 63  | 57  | 53  | 62  | 56  | 52  | 61  | 56  | 52  | 50  | 50  |
| 8   | 72                                       | 60  | 53  | 49  | 70  | 60  | 53  | 48  | 59  | 52  | 48  | 57  | 52  | 48  | 56  | 51  | 48  | 46  | 46  |
| 9   | 67                                       | 56  | 49  | 44  | 66  | 56  | 49  | 44  | 54  | 48  | 44  | 54  | 48  | 44  | 53  | 48  | 44  | 42  | 42  |
| 10  | 63                                       | 52  | 45  | 41  | 62  | 52  | 45  | 41  | 51  | 45  | 41  | 50  | 44  | 41  | 49  | 44  | 40  | 39  | 39  |

RCR = ROOM CAVITY RATIO RC = EFFECTIVE CEILING CAVITY REFLECTANCE RW = WALL REFLECTANCE

THE DATA IN THIS REPORT ARE BASED ON ABSOLUTE MEASUREMENTS.  
ANSI/IESNA RP-1 COMPLIANCE IS BASED ON ABSOLUTE MEASUREMENTS.  
THIS TEST RUN IN ACCORDANCE WITH CURRENT I.E.S.N.A. PUBLISHED PROCEDURES.

APPROVED BY: \_\_\_\_\_



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**CANDELA VALUES**

| <b>ANGLE</b> | <b>0.0</b> |
|--------------|------------|
| 0.0          | 4263*      |
| 2.5          | 4245       |
| 5.0          | 4178       |
| 7.5          | 4056       |
| 10.0         | 3890       |
| 12.5         | 3728       |
| 15.0         | 3588       |
| 17.5         | 3458       |
| 20.0         | 3331       |
| 22.5         | 3205       |
| 25.0         | 3075       |
| 27.5         | 2936       |
| 30.0         | 2790       |
| 32.5         | 2642       |
| 35.0         | 2496       |
| 37.5         | 2356       |
| 40.0         | 2227       |
| 42.5         | 2088       |
| 45.0         | 1899       |
| 47.5         | 1585       |
| 50.0         | 888        |
| 52.5         | 197        |
| 55.0         | 96         |
| 57.5         | 55         |
| 60.0         | 43         |
| 62.5         | 37         |
| 65.0         | 33         |
| 67.5         | 30         |
| 70.0         | 28         |
| 72.5         | 25         |
| 75.0         | 22         |
| 77.5         | 19         |
| 80.0         | 16         |
| 82.5         | 13         |
| 85.0         | 8          |
| 87.5         | 3          |
| 90.0         | 0          |

\*MAXIMUM CANDELA VALUE



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**ANGLE**

- 0.0
- 2.5
- 5.0
- 7.5
- 10.0
- 12.5
- 15.0
- 17.5
- 20.0
- 22.5
- 25.0
- 27.5
- 30.0
- 32.5
- 35.0
- 37.5
- 40.0
- 42.5
- 45.0
- 47.5
- 50.0
- 52.5
- 55.0
- 57.5
- 60.0
- 62.5
- 65.0
- 67.5
- 70.0
- 72.5
- 75.0
- 77.5
- 80.0
- 82.5
- 85.0
- 87.5
- 90.0