



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SRK-8-L106-840-XXX-XXX.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST]GEN FROM BALLABS TEST NO. 18634.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUEDATE] 11-FEB-2015  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO  
 [LUMINAIRE] 4-56LED 22"ARRAYS 8' STRIP LUMINAIRE  
 [MORE] LED ARRAYS ON WHITE COVER  
 [MORE] EVERLINE LED D21 DRIVER  
 [LUMCAT] SRK-8-L106-840-xxx-xxx  
 [LAMPCAT] M700840  
 [ SEARCH\_SOURCETYPE]FL  
 [ SEARCH\_APPLICATION]INDOOR,COMMERCIAL,INDUSTRIAL,DIRECT,LINEAR  
 [ SEARCH\_APPLICATION]MANUFACTURING,WAREHOUSE  
 [ SEARCH\_MOUNTING]CEILING,SURFACE,SUSPENDED  
 [MANUFAC] WILLIAMS INDOOR

**CHARACTERISTICS**

|                                 |                 |
|---------------------------------|-----------------|
| Lumens Per Lamp                 | N.A. (absolute) |
| Total Lamp Lumens               | N.A. (absolute) |
| Luminaire Lumens                | 10622           |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 128             |
| Total Luminaire Watts           | 83              |
| Ballast Factor                  | 1.00            |
| CIE Type                        | Direct          |
| Spacing Criterion (0-180)       | 1.28            |
| Spacing Criterion (90-270)      | 1.26            |
| Spacing Criterion (Diagonal)    | 1.42            |
| Basic Luminous Shape            | Rectangular     |
| Luminous Length (0-180)         | 8.00 ft         |
| Luminous Width (90-270)         | 0.38 ft         |
| Luminous Height                 | 0.00 ft         |

**LUMINANCE DATA (cd/sq.m)**

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 13043            | 12951             | 12931             |
| 55                  | 12390            | 12239             | 12164             |
| 65                  | 11757            | 11604             | 11142             |
| 75                  | 9739             | 9041              | 9041              |
| 85                  | 6381             | 5883              | 5883              |

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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>  | 3660.883   | 3660.883    | 3660.883    | 3660.883    | 3660.883    |
| <b>5</b>  | 3672.971   | 3672.971    | 3668.942    | 3668.942    | 3668.942    |
| <b>10</b> | 3620.587   | 3616.557    | 3616.557    | 3616.557    | 3612.528    |
| <b>15</b> | 3517.832   | 3517.832    | 3513.803    | 3511.788    | 3511.788    |
| <b>20</b> | 3465.448   | 3457.388    | 3455.374    | 3443.285    | 3447.314    |
| <b>25</b> | 3267.998   | 3265.983    | 3257.924    | 3255.909    | 3255.909    |
| <b>30</b> | 3100.770   | 3096.740    | 3090.696    | 3082.636    | 3080.622    |
| <b>35</b> | 2951.675   | 2947.645    | 2939.586    | 2931.527    | 2925.482    |
| <b>40</b> | 2730.047   | 2724.003    | 2717.959    | 2709.899    | 2709.899    |
| <b>45</b> | 2572.893   | 2570.879    | 2554.760    | 2552.745    | 2550.731    |
| <b>50</b> | 2264.630   | 2258.585    | 2252.541    | 2242.467    | 2240.452    |
| <b>55</b> | 1982.558   | 1974.499    | 1958.381    | 1950.322    | 1946.292    |
| <b>60</b> | 1658.176   | 1648.102    | 1638.028    | 1627.954    | 1613.851    |
| <b>65</b> | 1386.179   | 1380.135    | 1368.046    | 1339.839    | 1313.646    |
| <b>70</b> | 1057.767   | 1047.693    | 1027.545    | 991.279     | 981.205     |
| <b>75</b> | 703.163    | 697.119     | 652.794     | 636.675     | 652.794     |
| <b>80</b> | 406.989    | 394.900     | 366.693     | 354.604     | 374.752     |
| <b>85</b> | 155.139    | 145.065     | 143.050     | 137.006     | 143.050     |
| <b>90</b> | 8.059      | 14.104      | 32.237      | 36.266      | 36.266      |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens   | %Lamp | %Fixt  |
|---------|----------|-------|--------|
| 0-20    | 1345.57  | N.A.  | 12.70  |
| 0-30    | 2853.38  | N.A.  | 26.90  |
| 0-40    | 4685.14  | N.A.  | 44.10  |
| 0-60    | 8382.8   | N.A.  | 78.90  |
| 0-80    | 10434.43 | N.A.  | 98.20  |
| 0-90    | 10622.29 | N.A.  | 100.00 |
| 10-90   | 10273.97 | N.A.  | 96.70  |
| 20-40   | 3339.57  | N.A.  | 31.40  |
| 20-50   | 5289.09  | N.A.  | 49.80  |
| 40-70   | 5029.12  | N.A.  | 47.30  |
| 60-80   | 2051.63  | N.A.  | 19.30  |
| 70-80   | 720.18   | N.A.  | 6.80   |
| 80-90   | 187.86   | N.A.  | 1.80   |
| 90-110  | 0.00     | N.A.  | 0.00   |
| 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   |
| 110-180 | 0.00     | N.A.  | 0.00   |
| 0-180   | 10622.29 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 348.32  |
| 10-20   | 997.25  |
| 20-30   | 1507.81 |
| 30-40   | 1831.77 |
| 40-50   | 1949.52 |
| 50-60   | 1748.14 |
| 60-70   | 1331.46 |
| 70-80   | 720.18  |
| 80-90   | 187.86  |
| 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    |

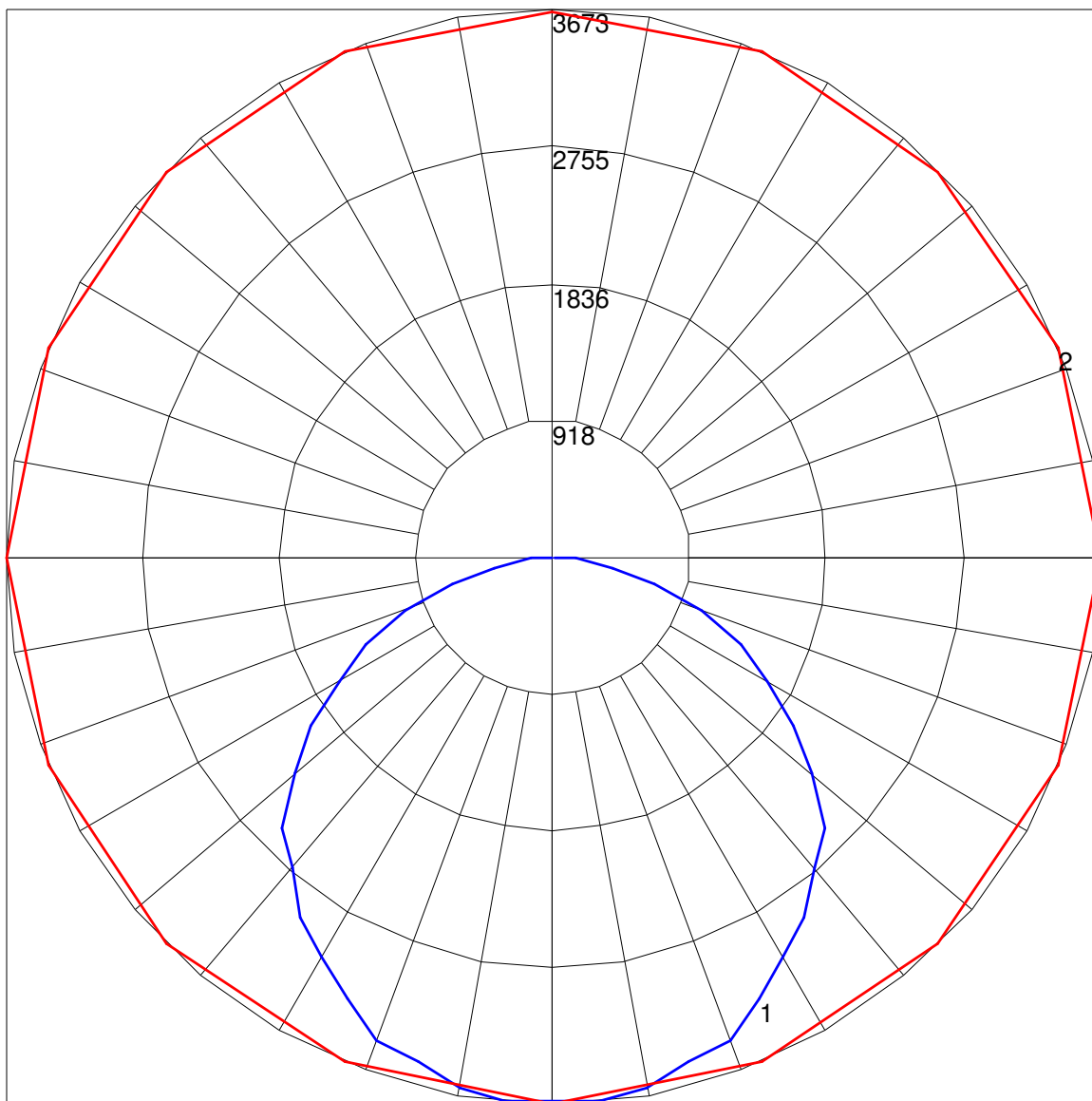
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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  | 94  | 97  | 94  | 91  | 93  | 91  | 88  | 90  | 88  | 86  | 84  |
| 2  | 99  | 90  | 84  | 78  | 96  | 89  | 82  | 77  | 85  | 80  | 75  | 82  | 77  | 73  | 79  | 75  | 72  | 70  |
| 3  | 90  | 79  | 71  | 65  | 87  | 78  | 70  | 64  | 75  | 68  | 63  | 72  | 66  | 62  | 69  | 65  | 61  | 58  |
| 4  | 82  | 70  | 61  | 55  | 80  | 69  | 61  | 54  | 66  | 59  | 53  | 64  | 58  | 53  | 62  | 56  | 52  | 50  |
| 5  | 76  | 63  | 54  | 47  | 73  | 62  | 53  | 47  | 59  | 52  | 46  | 57  | 51  | 46  | 56  | 50  | 45  | 43  |
| 6  | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 41  | 54  | 46  | 40  | 52  | 45  | 40  | 50  | 44  | 40  | 37  |
| 7  | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 36  | 47  | 40  | 35  | 46  | 40  | 35  | 33  |
| 8  | 60  | 47  | 38  | 32  | 59  | 46  | 38  | 32  | 44  | 37  | 32  | 43  | 36  | 32  | 42  | 36  | 31  | 29  |
| 9  | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 29  | 40  | 33  | 28  | 39  | 33  | 28  | 26  |
| 10 | 53  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 31  | 26  | 37  | 30  | 26  | 36  | 30  | 26  | 24  |

POLAR GRAPH



Maximum Candela = 3672.971 Located At Horizontal Angle = 0, Vertical Angle = 5

# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)