

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00592\_2 ~ C08XXXT-20LXXK-MDEX-TSG-NL.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00592\_2\_M-20L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 6/29/2017  
 [UPDATE] 3/26/2018  
 [LUMCAT] C08xxXT-20L-xxK-MD-EX-TSG-NL  
 [LUMINAIRE] Nom.8" Diam. LED Cylinder Downlight  
 [OTHER] Data applicable to: 12"H and 18" H Cylinders  
 [OTHER] Upper, Internal Reflector, Medium Beam  
 [OTHER] Lower Trim, Semi-diffuse, Clear Anodized Aluminum  
 [OTHER] No Lens  
 [OTHER] 37.7 Degree Beam Angle  
 [LAMPCAT] N/A, 19mm LES  
 [LAMP] N/A, 83 CRI  
 [OTHER] Total Luminaire Watts is approximate  
 [OTHER] LEDXT lumen output is the same for all available CCT's  
 [OTHER] This report prepared by Spectrum Lighting, scaled from 30L

**CHARACTERISTICS**

|                                 |                    |
|---------------------------------|--------------------|
| Lumens Per Lamp                 | N.A. (absolute)    |
| Total Lamp Lumens               | N.A. (absolute)    |
| Luminaire Lumens                | 1721               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 79                 |
| Total Luminaire Watts           | 21.7               |
| Ballast Factor                  | 1.00               |
| CIE Type                        | Direct             |
| Spacing Criterion (0-180)       | 0.62               |
| Spacing Criterion (90-270)      | 0.60               |
| Spacing Criterion (Diagonal)    | 0.66               |
| Basic Luminous Shape            | Circular           |
| Luminous Length (0-180)         | 0.68 ft (Diameter) |
| Luminous Width (90-270)         | 0.68 ft (Diameter) |
| Luminous Height                 | 0.00 ft            |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00592\_2 ~ C08XXXT-20LXXK-MDEX-TSG-NL.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 1333             | 1397              | 944               |
| 55                  | 110              | 164               | 107               |
| 65                  | 74               | 89                | 67                |
| 75                  | 117              | 117               | 119               |
| 85                  | 479              | 304               | 338               |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00592\_2 ~ C08XXXT-20LXXK-MDEX-TSG-NL.IES****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>  | 3297.592   | 3297.592    | 3297.592    | 3297.592    | 3297.592    |
| <b>5</b>  | 3123.880   | 3146.065    | 3119.581    | 3134.163    | 3075.581    |
| <b>10</b> | 2670.608   | 2715.318    | 2670.890    | 2701.366    | 2596.475    |
| <b>15</b> | 2077.069   | 2125.524    | 2080.961    | 2116.003    | 2003.617    |
| <b>20</b> | 1520.240   | 1563.068    | 1527.724    | 1555.887    | 1464.495    |
| <b>25</b> | 1093.943   | 1124.254    | 1100.669    | 1117.965    | 1052.838    |
| <b>30</b> | 775.773    | 798.064     | 776.890     | 786.283     | 725.501     |
| <b>35</b> | 458.347    | 489.403     | 459.079     | 471.778     | 400.799     |
| <b>40</b> | 162.161    | 191.847     | 167.183     | 181.077     | 130.026     |
| <b>45</b> | 31.367     | 27.873      | 32.875      | 29.500      | 22.202      |
| <b>50</b> | 6.464      | 7.770       | 8.270       | 7.531       | 5.385       |
| <b>55</b> | 2.093      | 2.781       | 3.131       | 2.733       | 2.039       |
| <b>60</b> | 1.153      | 1.399       | 1.571       | 1.247       | 1.111       |
| <b>65</b> | 1.035      | 1.211       | 1.253       | 1.085       | 0.941       |
| <b>70</b> | 1.355      | 1.147       | 1.045       | 0.881       | 1.195       |
| <b>75</b> | 1.010      | 1.042       | 1.006       | 1.313       | 1.025       |
| <b>80</b> | 1.012      | 1.015       | 0.947       | 1.305       | 0.903       |
| <b>85</b> | 1.389      | 1.063       | 0.883       | 1.081       | 0.979       |
| <b>90</b> | 0.794      | 0.559       | 0.954       | 0.603       | 1.281       |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00592\_2 ~ C08XXXT-20LXXK-MDEX-TSG-NL.IES****ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 866.25  | N.A.  | 50.30  |
| 0-30    | 1381.19 | N.A.  | 80.30  |
| 0-40    | 1669.63 | N.A.  | 97.00  |
| 0-60    | 1717.33 | N.A.  | 99.80  |
| 0-80    | 1719.63 | N.A.  | 99.90  |
| 0-90    | 1720.71 | N.A.  | 100.00 |
| 10-90   | 1436.26 | N.A.  | 83.50  |
| 20-40   | 803.38  | N.A.  | 46.70  |
| 20-50   | 847.96  | N.A.  | 49.30  |
| 40-70   | 48.86   | N.A.  | 2.80   |
| 60-80   | 2.31    | N.A.  | 0.10   |
| 70-80   | 1.15    | N.A.  | 0.10   |
| 80-90   | 1.08    | N.A.  | 0.10   |
| 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   | 1720.71 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 284.45 |
| 10-20   | 581.80 |
| 20-30   | 514.94 |
| 30-40   | 288.44 |
| 40-50   | 44.58  |
| 50-60   | 3.11   |
| 60-70   | 1.16   |
| 70-80   | 1.15   |
| 80-90   | 1.08   |
| 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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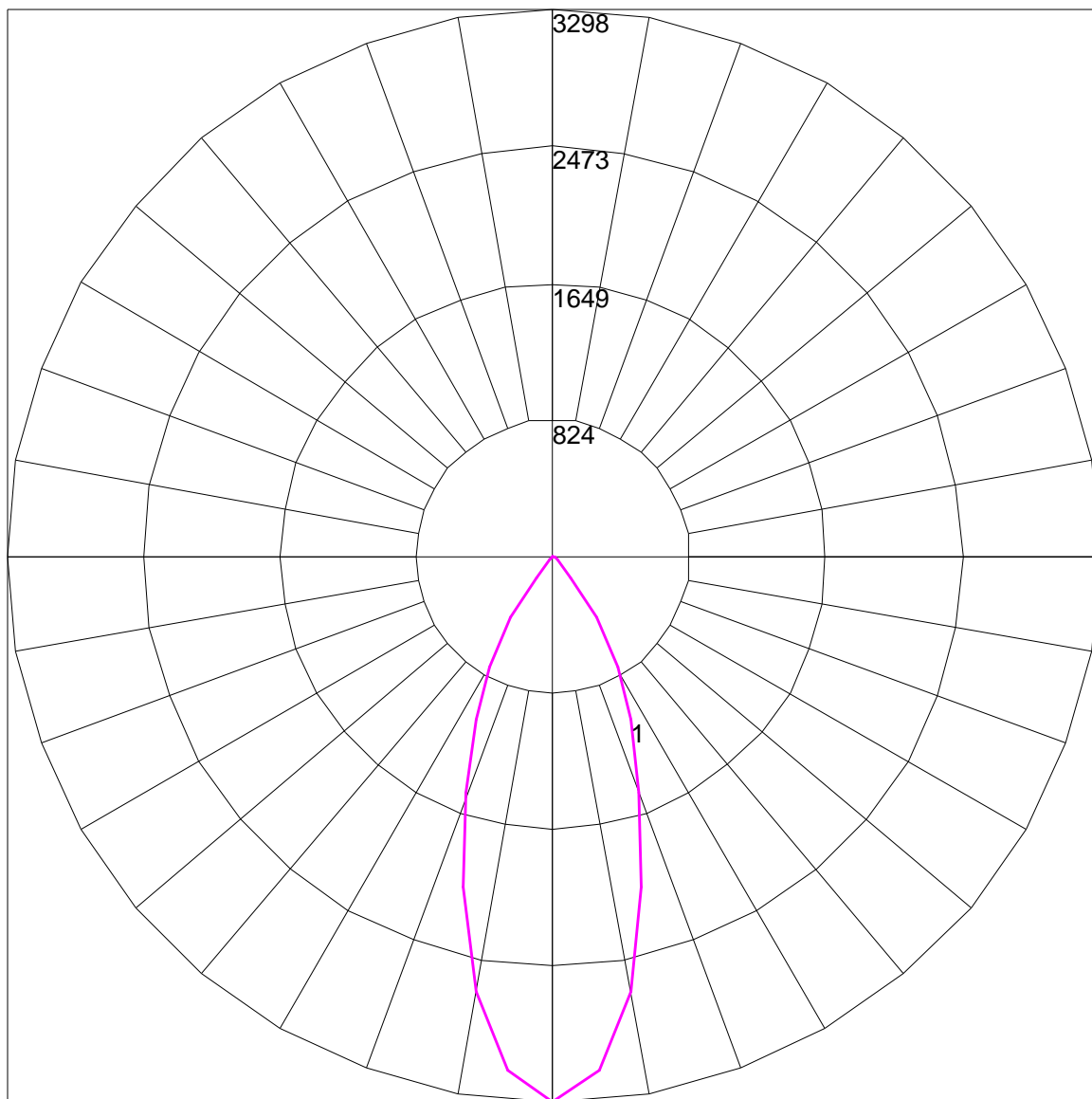
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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  | 114 | 111 | 109 | 107 | 112 | 109 | 107 | 105 | 105 | 104 | 102 | 102 | 100 | 99  | 98  | 97  | 96  | 95  |
| 2  | 109 | 105 | 101 | 98  | 107 | 103 | 100 | 97  | 100 | 97  | 95  | 97  | 95  | 93  | 94  | 92  | 91  | 89  |
| 3  | 104 | 98  | 94  | 90  | 102 | 97  | 93  | 90  | 95  | 91  | 88  | 92  | 89  | 87  | 90  | 88  | 86  | 84  |
| 4  | 100 | 93  | 88  | 84  | 98  | 92  | 87  | 84  | 90  | 86  | 83  | 88  | 84  | 82  | 86  | 83  | 81  | 79  |
| 5  | 95  | 88  | 83  | 79  | 94  | 87  | 82  | 78  | 85  | 81  | 78  | 84  | 80  | 77  | 82  | 79  | 76  | 75  |
| 6  | 91  | 83  | 78  | 74  | 90  | 82  | 77  | 74  | 81  | 77  | 73  | 80  | 76  | 73  | 78  | 75  | 72  | 71  |
| 7  | 87  | 79  | 74  | 70  | 86  | 78  | 73  | 70  | 77  | 73  | 69  | 76  | 72  | 69  | 75  | 71  | 69  | 67  |
| 8  | 84  | 75  | 70  | 66  | 83  | 75  | 69  | 66  | 74  | 69  | 66  | 73  | 68  | 65  | 72  | 68  | 65  | 64  |
| 9  | 80  | 72  | 66  | 63  | 79  | 71  | 66  | 63  | 70  | 66  | 62  | 69  | 65  | 62  | 69  | 65  | 62  | 61  |
| 10 | 77  | 68  | 63  | 60  | 76  | 68  | 63  | 60  | 67  | 63  | 59  | 66  | 62  | 59  | 66  | 62  | 59  | 58  |

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POLAR GRAPH



Maximum Candela = 3297.592 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)