

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00652_19 ~ C0812YKXT-20LXXK-XWEX-TSG-SO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00652_19_M-20L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 6/29/2017

[UPDATE] 4/2/2018

[LUMCAT] C0812YKXT-20L-xxK-XW-EX-TSG-SO

[LUMINAIRE] Nom.8" Diam. x 12" H Adjustable Yoke LED Cylinder Downlight

[OTHER] Upper Internal Reflector, Xtra Wide Beam

[OTHER] Lower Trim, Semi-Diffuse, Clear Anodized Aluminum

[OTHER] Solite Lens, Regressed in Lower Trim

[OTHER] 57.3 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 | 1602 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 73 |
| Total Luminaire Watts | 21.9 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.88 |
| Spacing Criterion (90-270) | 0.88 |
| Spacing Criterion (Diagonal) | 0.88 |
| 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-00652_19 ~ C0812YKXT-20LXXK-XWEX-TSG-SO.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 4140 | 4355 | 4133 |
| 55 | 660 | 691 | 701 |
| 65 | 66 | 60 | 63 |
| 75 | 100 | 151 | 142 |
| 85 | 289 | 353 | 324 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00652_19 ~ C0812YKXT-20LXXK-XWEX-TSG-SO.IES****CANDELA TABULATION**

| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|-----------|------------|-------------|-------------|-------------|-------------|
| 0 | 1865.003 | 1865.003 | 1865.003 | 1865.003 | 1865.003 |
| 5 | 1827.649 | 1830.876 | 1824.869 | 1825.633 | 1812.971 |
| 10 | 1734.383 | 1741.552 | 1730.691 | 1733.937 | 1708.609 |
| 15 | 1581.169 | 1594.102 | 1578.867 | 1580.923 | 1548.086 |
| 20 | 1381.810 | 1401.550 | 1386.851 | 1392.030 | 1354.450 |
| 25 | 1145.122 | 1179.808 | 1162.169 | 1178.361 | 1130.273 |
| 30 | 854.863 | 891.107 | 876.147 | 894.463 | 842.229 |
| 35 | 535.969 | 558.364 | 551.343 | 566.956 | 519.240 |
| 40 | 264.765 | 281.925 | 276.174 | 286.946 | 253.980 |
| 45 | 97.420 | 92.739 | 102.471 | 103.972 | 97.238 |
| 50 | 36.963 | 36.867 | 39.230 | 40.839 | 38.185 |
| 55 | 12.590 | 12.913 | 13.191 | 13.576 | 13.373 |
| 60 | 2.001 | 1.587 | 2.191 | 2.183 | 2.263 |
| 65 | 0.931 | 0.729 | 0.843 | 0.994 | 0.883 |
| 70 | 0.694 | 0.924 | 1.080 | 1.123 | 0.929 |
| 75 | 0.863 | 1.027 | 1.299 | 0.926 | 1.227 |
| 80 | 0.763 | 0.640 | 1.203 | 1.103 | 0.928 |
| 85 | 0.837 | 1.088 | 1.024 | 0.773 | 0.939 |
| 90 | 0.751 | 0.423 | 1.008 | 0.483 | 0.893 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00652_19 ~ C0812YKXT-20LXXK-XWEX-TSG-SO.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 612.32 | N.A. | 38.20 |
| 0-30 | 1138.36 | N.A. | 71.10 |
| 0-40 | 1486.75 | N.A. | 92.80 |
| 0-60 | 1598.83 | N.A. | 99.80 |
| 0-80 | 1601.08 | N.A. | 99.90 |
| 0-90 | 1602.04 | N.A. | 100.00 |
| 10-90 | 1430.67 | N.A. | 89.30 |
| 20-40 | 874.43 | N.A. | 54.60 |
| 20-50 | 971.74 | N.A. | 60.70 |
| 40-70 | 113.26 | N.A. | 7.10 |
| 60-80 | 2.25 | N.A. | 0.10 |
| 70-80 | 1.08 | N.A. | 0.10 |
| 80-90 | 0.96 | 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 | 1602.04 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 171.38 |
| 10-20 | 440.94 |
| 20-30 | 526.05 |
| 30-40 | 348.38 |
| 40-50 | 97.31 |
| 50-60 | 14.77 |
| 60-70 | 1.17 |
| 70-80 | 1.08 |
| 80-90 | 0.96 |
| 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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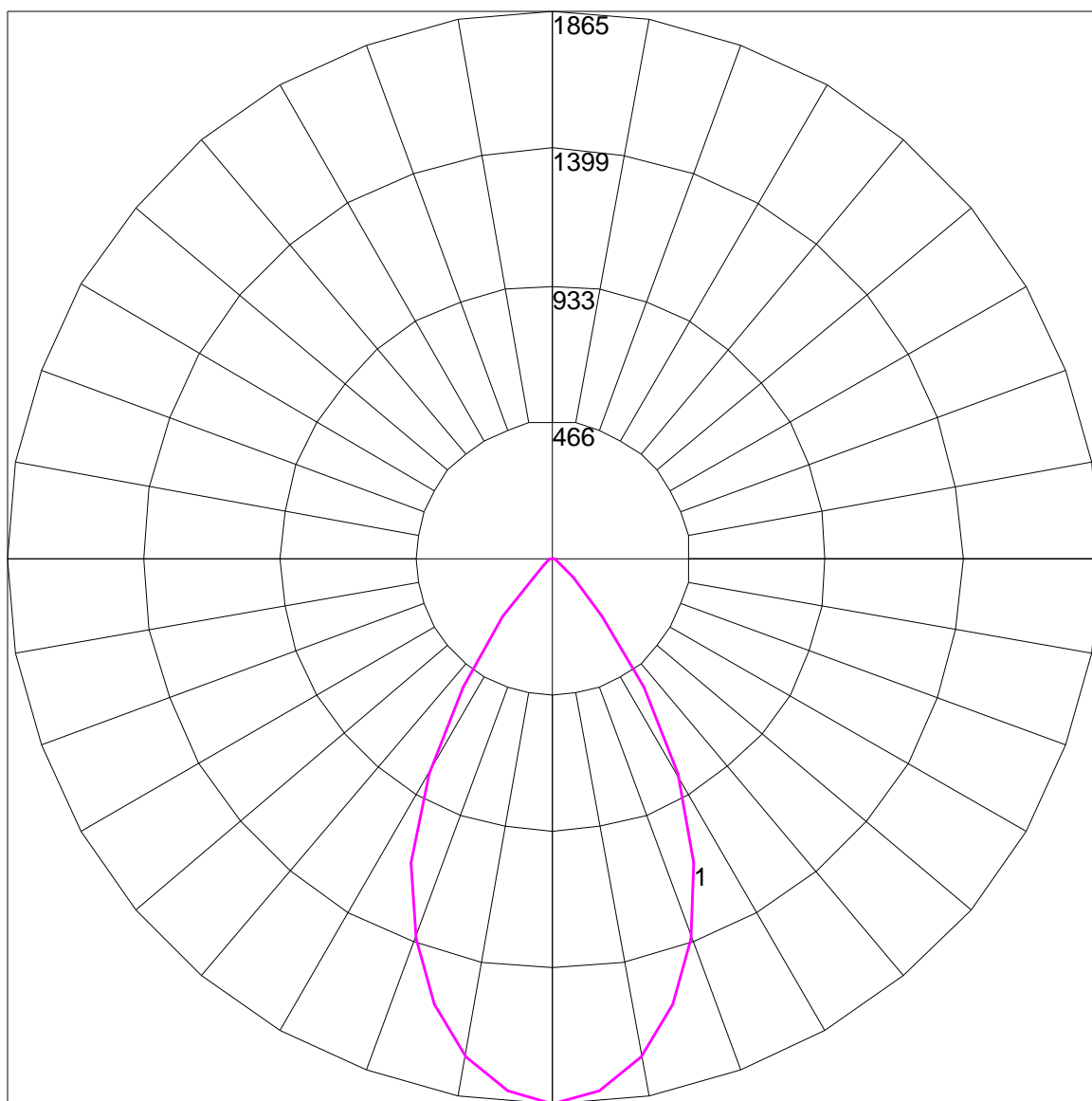
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 108 | 106 | 111 | 109 | 106 | 104 | 105 | 103 | 101 | 101 | 99 | 98 | 97 | 96 | 95 | 94 |
| 2 | 108 | 103 | 99 | 96 | 106 | 101 | 98 | 95 | 98 | 95 | 93 | 95 | 93 | 91 | 92 | 91 | 89 | 87 |
| 3 | 103 | 96 | 91 | 87 | 101 | 95 | 90 | 87 | 92 | 88 | 85 | 90 | 87 | 84 | 88 | 85 | 83 | 81 |
| 4 | 97 | 90 | 84 | 80 | 96 | 89 | 84 | 80 | 87 | 82 | 79 | 85 | 81 | 78 | 83 | 80 | 77 | 75 |
| 5 | 92 | 84 | 78 | 74 | 91 | 83 | 78 | 74 | 81 | 77 | 73 | 80 | 76 | 72 | 78 | 75 | 72 | 70 |
| 6 | 88 | 79 | 73 | 69 | 86 | 78 | 73 | 69 | 77 | 72 | 68 | 75 | 71 | 68 | 74 | 70 | 67 | 66 |
| 7 | 83 | 74 | 68 | 64 | 82 | 74 | 68 | 64 | 72 | 67 | 64 | 71 | 67 | 63 | 70 | 66 | 63 | 61 |
| 8 | 79 | 70 | 64 | 60 | 78 | 69 | 64 | 60 | 68 | 63 | 59 | 67 | 63 | 59 | 66 | 62 | 59 | 58 |
| 9 | 76 | 66 | 60 | 56 | 75 | 66 | 60 | 56 | 65 | 59 | 56 | 64 | 59 | 56 | 63 | 59 | 55 | 54 |
| 10 | 72 | 62 | 57 | 53 | 71 | 62 | 56 | 53 | 61 | 56 | 53 | 60 | 56 | 52 | 60 | 55 | 52 | 51 |

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POLAR GRAPH



Maximum Candela = 1865.003 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)