

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_63 ~ C1320YKXT-80LXXK-XWEX-TSG-MW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424\_63

[TESTLAB] Photopia 2015.1.1 see: [www.ltioptics.com/ies](http://www.ltioptics.com/ies)

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 4/29/2016

[UPDATE] 4/2/2018

[LUMCAT] C1320YKXT-80L-xxK-XW-EX-TSG-MW

[LUMINAIRE] Nom. 13" Diam. x 20" H Cylinder Downlight Pendant, Xtra Wide Beam

[OTHER] Nom. 12" Diam. Spun Alum. Bezel, Semi-Diffuse Clear anodized finish

[OTHER] Matte Black regressed faceplate w/ (4) openings for LEDXT optics

[OTHER] Four (4) LEDXT Reflector modules per Luminaire

[OTHER] Photometric data applicable to C1320XT (pendant), C1320XT (wall mounted)

[OTHER] and C1320YKXT (yoke mounted) luminaires

[OTHER] 58 Degree Beam Angle, 99 Degree Field Angle

[LAMP] N/A, 19mm

[LAMPCAT] N/A, Min. 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

**CHARACTERISTICS**

|                                 |                    |
|---------------------------------|--------------------|
| Lumens Per Lamp                 | N.A. (absolute)    |
| Total Lamp Lumens               | N.A. (absolute)    |
| Luminaire Lumens                | 7318               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 77                 |
| Total Luminaire Watts           | 94.8               |
| Ballast Factor                  | 1.00               |
| CIE Type                        | Direct             |
| Spacing Criterion (0-180)       | 0.88               |
| Spacing Criterion (90-270)      | 0.88               |
| Spacing Criterion (Diagonal)    | 0.94               |
| Basic Luminous Shape            | Circular           |
| Luminous Length (0-180)         | 1.00 ft (Diameter) |
| Luminous Width (90-270)         | 1.00 ft (Diameter) |
| Luminous Height                 | 0.00 ft            |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_63 ~ C1320YKXT-80LXXK-XWEX-TSG-MW.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 26194            | 25675             | 25838             |
| 55                  | 1758             | 2713              | 2117              |
| 65                  | 2                | 5                 | 0                 |
| 75                  | 7                | 4                 | 0                 |
| 85                  | 0                | 0                 | 25                |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SP-00424\_63 ~ C1320YKXT-80LXXK-XWEX-TSG-MW.IES**

**CANDELA TABULATION**

|           | <u>0</u> | <u>5</u> | <u>10</u> | <u>15</u> | <u>20</u> | <u>25</u> | <u>30</u> | <u>35</u> | <u>40</u> | <u>45</u> |
|-----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>0</b>  | 7113.98  | 7113.98  | 7113.98   | 7113.98   | 7113.98   | 7113.98   | 7113.98   | 7113.98   | 7113.98   | 7113.98   |
| <b>5</b>  | 7215.82  | 7199.97  | 7122.22   | 7241.47   | 7188.99   | 7249.02   | 7073.58   | 7260.21   | 7258.69   | 7184.12   |
| <b>10</b> | 6905.64  | 6711.90  | 6842.74   | 6791.09   | 6846.51   | 6801.09   | 6862.06   | 6809.20   | 6731.80   | 6815.10   |
| <b>15</b> | 6352.16  | 6200.99  | 6166.30   | 6199.89   | 6199.23   | 6265.66   | 6184.36   | 6229.11   | 6228.83   | 6208.97   |
| <b>20</b> | 5225.59  | 5175.81  | 5165.52   | 5225.92   | 5117.68   | 5196.51   | 5078.34   | 5131.13   | 5098.16   | 5133.71   |
| <b>25</b> | 4274.25  | 4212.04  | 4307.24   | 4252.23   | 4279.50   | 4239.80   | 4285.61   | 4300.84   | 4256.03   | 4207.84   |
| <b>30</b> | 3464.89  | 3433.67  | 3487.60   | 3456.42   | 3442.97   | 3458.63   | 3474.42   | 3476.56   | 3480.36   | 3462.83   |
| <b>35</b> | 2902.12  | 2835.71  | 2843.29   | 2883.00   | 2883.56   | 2875.39   | 2863.65   | 2863.38   | 2848.68   | 2870.91   |
| <b>40</b> | 2160.51  | 2177.60  | 2204.10   | 2197.45   | 2140.90   | 2171.30   | 2172.75   | 2148.98   | 2157.66   | 2167.63   |
| <b>45</b> | 1352.74  | 1329.40  | 1322.55   | 1354.52   | 1344.10   | 1330.67   | 1326.20   | 1345.10   | 1348.28   | 1325.95   |
| <b>50</b> | 536.59   | 526.06   | 551.47    | 550.30    | 562.50    | 570.16    | 585.73    | 595.20    | 597.42    | 597.48    |
| <b>55</b> | 73.63    | 77.09    | 79.36     | 81.38     | 79.13     | 87.85     | 94.83     | 105.78    | 113.75    | 113.64    |
| <b>60</b> | 0.36     | 0.75     | 0.43      | 0.29      | 0.39      | 0.73      | 0.65      | 0.82      | 0.67      | 0.38      |
| <b>65</b> | 0.05     | 0.13     | 0.02      | 0.00      | 0.01      | 0.30      | 0.00      | 0.25      | 0.08      | 0.15      |
| <b>70</b> | 0.39     | 0.17     | 0.00      | 0.16      | 0.00      | 0.00      | 0.09      | 0.07      | 0.26      | 0.13      |
| <b>75</b> | 0.14     | 0.08     | 0.04      | 0.01      | 0.07      | 0.15      | 0.08      | 0.08      | 0.21      | 0.08      |
| <b>80</b> | 0.00     | 0.06     | 0.00      | 0.00      | 0.11      | 0.07      | 0.15      | 0.04      | 0.16      | 0.14      |
| <b>85</b> | 0.00     | 0.16     | 0.08      | 0.00      | 0.08      | 0.15      | 0.08      | 0.08      | 0.00      | 0.00      |
| <b>90</b> | 0.00     | 0.00     | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |

**Vert. Angles**      **Horizontal Angles**

|           | <u>50</u> | <u>55</u> | <u>60</u> | <u>65</u> | <u>70</u> | <u>75</u> | <u>80</u> | <u>85</u> | <u>90</u> |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>0</b>  | 7113.98   | 7113.98   | 7113.98   | 7113.98   | 7113.98   | 7113.98   | 7113.98   | 7113.98   | 7113.98   |
| <b>5</b>  | 7201.11   | 7220.11   | 7147.17   | 7217.34   | 7315.90   | 7305.31   | 7179.47   | 7154.63   | 7388.20   |
| <b>10</b> | 6778.07   | 6796.66   | 6799.38   | 6778.39   | 6924.58   | 6603.45   | 6840.89   | 6729.75   | 6812.63   |
| <b>15</b> | 6172.63   | 6169.09   | 6098.58   | 6201.34   | 6212.56   | 6157.01   | 6229.01   | 6233.77   | 6274.74   |
| <b>20</b> | 5148.23   | 5212.39   | 5143.28   | 5150.93   | 5157.33   | 5186.88   | 5187.47   | 5180.03   | 5244.66   |
| <b>25</b> | 4295.92   | 4265.57   | 4255.52   | 4221.96   | 4306.87   | 4213.98   | 4256.56   | 4249.19   | 4305.70   |
| <b>30</b> | 3464.26   | 3472.53   | 3471.89   | 3432.78   | 3483.97   | 3454.47   | 3435.07   | 3479.88   | 3463.90   |
| <b>35</b> | 2839.86   | 2855.06   | 2865.99   | 2842.47   | 2849.53   | 2860.33   | 2872.31   | 2879.51   | 2913.96   |
| <b>40</b> | 2168.63   | 2135.90   | 2204.57   | 2159.68   | 2166.43   | 2178.29   | 2175.45   | 2155.45   | 2177.44   |
| <b>45</b> | 1338.29   | 1340.36   | 1361.37   | 1360.75   | 1357.91   | 1339.65   | 1331.99   | 1359.03   | 1334.35   |
| <b>50</b> | 587.59    | 586.28    | 590.29    | 588.92    | 559.20    | 551.97    | 550.17    | 543.78    | 510.92    |
| <b>55</b> | 110.38    | 104.91    | 89.38     | 87.63     | 81.93     | 85.22     | 84.69     | 81.48     | 88.67     |
| <b>60</b> | 0.90      | 0.86      | 0.81      | 0.48      | 0.27      | 0.67      | 0.27      | 0.26      | 0.42      |
| <b>65</b> | 0.09      | 0.22      | 0.25      | 0.10      | 0.14      | 0.19      | 0.18      | 0.00      | 0.00      |
| <b>70</b> | 0.16      | 0.09      | 0.00      | 0.06      | 0.00      | 0.00      | 0.03      | 0.05      | 0.01      |
| <b>75</b> | 0.00      | 0.08      | 0.12      | 0.09      | 0.13      | 0.05      | 0.01      | 0.13      | 0.00      |
| <b>80</b> | 0.00      | 0.00      | 0.00      | 0.21      | 0.00      | 0.00      | 0.00      | 0.16      | 0.01      |
| <b>85</b> | 0.31      | 0.08      | 0.08      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.16      |
| <b>90</b> | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_63 ~ C1320YKXT-80LXXK-XWEX-TSG-MW.IES****ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 2380.25 | N.A.  | 32.50  |
| 0-30    | 4346.05 | N.A.  | 59.40  |
| 0-40    | 6117.35 | N.A.  | 83.60  |
| 0-60    | 7317.92 | N.A.  | 100.00 |
| 0-80    | 7318.22 | N.A.  | 100.00 |
| 0-90    | 7318.27 | N.A.  | 100.00 |
| 10-90   | 6645.89 | N.A.  | 90.80  |
| 20-40   | 3737.1  | N.A.  | 51.10  |
| 20-50   | 4773.24 | N.A.  | 65.20  |
| 40-70   | 1200.79 | N.A.  | 16.40  |
| 60-80   | 0.30    | N.A.  | 0.00   |
| 70-80   | 0.08    | N.A.  | 0.00   |
| 80-90   | 0.05    | N.A.  | 0.00   |
| 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   | 7318.27 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 672.37  |
| 10-20   | 1707.88 |
| 20-30   | 1965.8  |
| 30-40   | 1771.3  |
| 40-50   | 1036.15 |
| 50-60   | 164.42  |
| 60-70   | 0.21    |
| 70-80   | 0.08    |
| 80-90   | 0.05    |
| 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 : SP-00424\_63 ~ C1320YKXT-80LXXK-XWEX-TSG-MW.IES

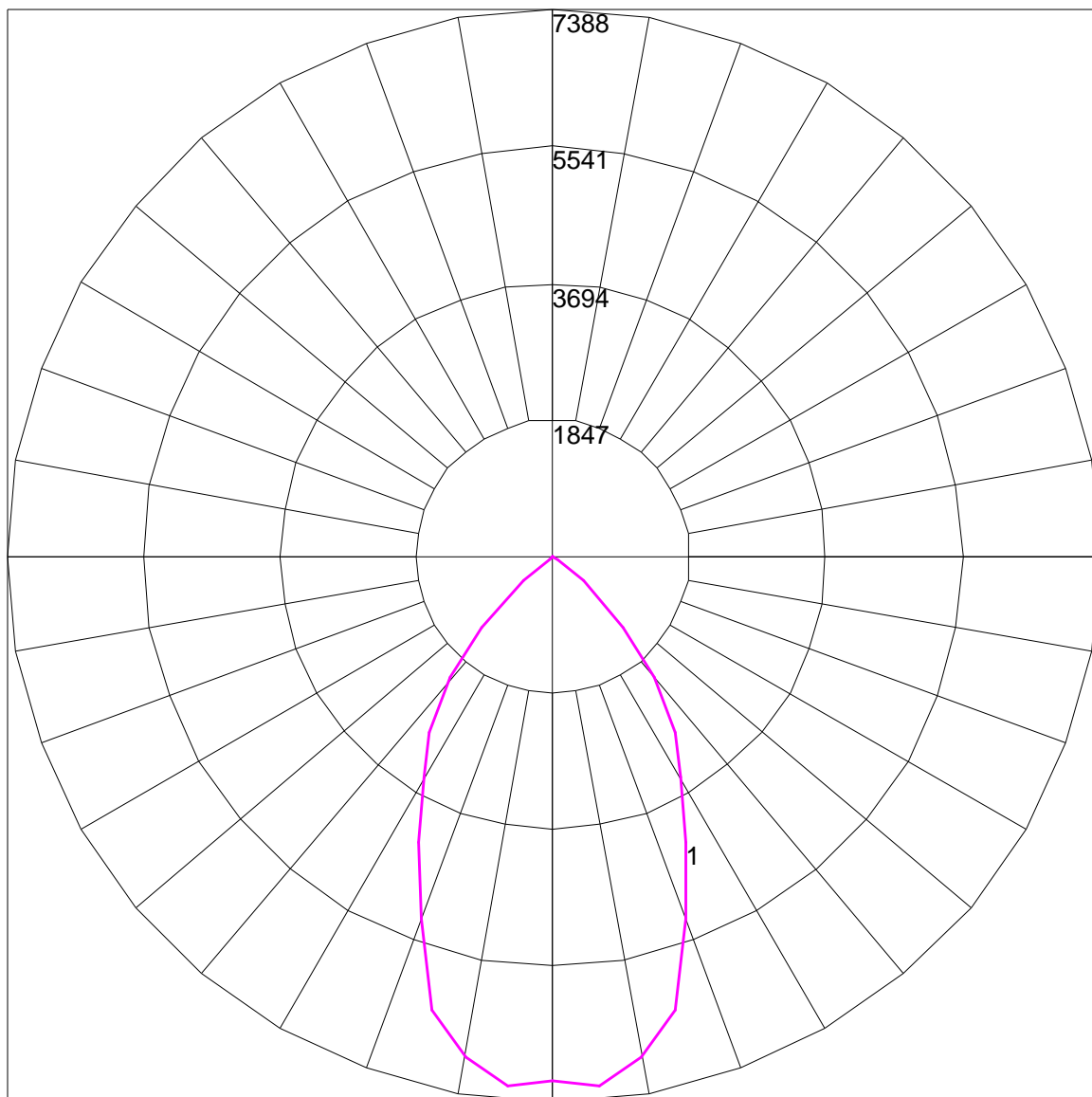
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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  | 113 | 110 | 108 | 105 | 111 | 108 | 106 | 104 | 104 | 102 | 100 | 100 | 99  | 97  | 97  | 96  | 95  | 93  |
| 2  | 107 | 102 | 98  | 94  | 105 | 100 | 96  | 93  | 97  | 94  | 91  | 94  | 91  | 89  | 91  | 89  | 87  | 85  |
| 3  | 101 | 94  | 89  | 85  | 99  | 93  | 88  | 84  | 90  | 86  | 83  | 88  | 84  | 81  | 85  | 82  | 80  | 78  |
| 4  | 95  | 87  | 81  | 77  | 94  | 86  | 81  | 76  | 84  | 79  | 75  | 82  | 78  | 74  | 80  | 76  | 74  | 72  |
| 5  | 90  | 81  | 75  | 70  | 88  | 80  | 74  | 70  | 78  | 73  | 69  | 76  | 72  | 69  | 75  | 71  | 68  | 66  |
| 6  | 85  | 75  | 69  | 64  | 83  | 75  | 69  | 64  | 73  | 68  | 64  | 72  | 67  | 63  | 70  | 66  | 63  | 61  |
| 7  | 80  | 70  | 64  | 59  | 79  | 70  | 64  | 59  | 68  | 63  | 59  | 67  | 62  | 58  | 66  | 62  | 58  | 57  |
| 8  | 76  | 66  | 59  | 55  | 75  | 65  | 59  | 55  | 64  | 59  | 55  | 63  | 58  | 54  | 62  | 57  | 54  | 53  |
| 9  | 72  | 62  | 55  | 51  | 71  | 61  | 55  | 51  | 60  | 55  | 51  | 59  | 54  | 51  | 58  | 54  | 50  | 49  |
| 10 | 68  | 58  | 52  | 48  | 67  | 58  | 52  | 48  | 57  | 51  | 47  | 56  | 51  | 47  | 55  | 50  | 47  | 46  |

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00424\_63 ~ C1320YKXT-80LXXK-XWEX-TSG-MW.IES

POLAR GRAPH



Maximum Candela = 7388.2 Located At Horizontal Angle = 90, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)