

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00424_20 ~ C1320XT-160LXXK-XWEX-1310XT-SGXXMW.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] SP-00424_20

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

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 4/29/2016

[UPDATE] 9/29/2017

[LUMCAT] C1320XT-160L-xxK-XW-EX-1310XT-SG

[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 CYK1320XT (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 | 14087 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 88 |
| Total Luminaire Watts | 159.6 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.88 |
| Spacing Criterion (90-270) | 0.88 |
| Spacing Criterion (Diagonal) | 0.96 |
| 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_20 ~ C1320XT-160LXXK-XWEX-1310XT-SGXXMW.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 50227 | 50741 | 50403 |
| 55 | 3549 | 5456 | 3484 |
| 65 | 0 | 10 | 0 |
| 75 | 39 | 0 | 0 |
| 85 | 0 | 25 | 0 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00424_20 ~ C1320XT-160LXXK-XWEX-1310XT-SGXXMW.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> |
|-----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 | 13432.50 | 13432.50 | 13432.50 | 13432.50 | 13432.50 | 13432.50 | 13432.50 | 13432.50 | 13432.50 | 13432.50 |
| 5 | 13947.56 | 13853.09 | 14036.21 | 13910.62 | 13871.86 | 13976.64 | 14050.20 | 13843.53 | 13776.69 | 13670.88 |
| 10 | 12983.30 | 12898.05 | 12837.33 | 12972.87 | 13018.74 | 13033.86 | 13077.30 | 13186.23 | 13034.71 | 13220.97 |
| 15 | 12065.68 | 12070.92 | 11997.61 | 11975.71 | 11992.96 | 11997.16 | 11968.33 | 11920.59 | 11985.55 | 11912.06 |
| 20 | 9940.88 | 10040.01 | 9936.38 | 9959.63 | 9999.06 | 9899.26 | 10040.31 | 9905.96 | 9924.02 | 9902.34 |
| 25 | 8221.90 | 8199.60 | 8138.94 | 8164.29 | 8209.99 | 8195.26 | 8220.17 | 8306.47 | 8220.26 | 8200.42 |
| 30 | 6607.73 | 6654.76 | 6609.70 | 6711.32 | 6718.38 | 6747.07 | 6654.35 | 6701.93 | 6724.03 | 6737.61 |
| 35 | 5446.16 | 5473.77 | 5519.42 | 5488.35 | 5490.51 | 5491.40 | 5451.93 | 5564.02 | 5461.72 | 5458.58 |
| 40 | 4184.90 | 4102.06 | 4126.42 | 4162.00 | 4187.75 | 4163.15 | 4169.57 | 4151.71 | 4190.50 | 4168.94 |
| 45 | 2593.86 | 2620.32 | 2624.71 | 2608.47 | 2539.07 | 2598.09 | 2589.81 | 2565.84 | 2592.09 | 2620.43 |
| 50 | 1008.58 | 1031.47 | 1035.76 | 1068.75 | 1132.30 | 1103.33 | 1113.80 | 1134.07 | 1122.38 | 1144.67 |
| 55 | 148.65 | 159.21 | 154.02 | 156.42 | 171.33 | 173.68 | 189.55 | 195.24 | 215.11 | 228.56 |
| 60 | 0.33 | 1.11 | 1.52 | 1.03 | 0.78 | 1.14 | 1.31 | 0.75 | 1.14 | 1.20 |
| 65 | 0.01 | 0.19 | 0.28 | 0.08 | 0.03 | 0.58 | 0.80 | 0.15 | 0.14 | 0.31 |
| 70 | 0.00 | 0.05 | 0.13 | 0.23 | 0.25 | 0.00 | 0.32 | 0.14 | 0.13 | 0.32 |
| 75 | 0.74 | 0.13 | 0.12 | 0.00 | 0.31 | 0.05 | 0.00 | 0.00 | 0.44 | 0.00 |
| 80 | 0.00 | 0.27 | 0.16 | 0.14 | 0.00 | 0.00 | 0.14 | 0.69 | 0.00 | 0.42 |
| 85 | 0.00 | 0.16 | 0.12 | 0.00 | 0.00 | 0.38 | 0.77 | 0.16 | 0.00 | 0.16 |
| 90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.57 |

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> |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 | 13432.50 | 13432.50 | 13432.50 | 13432.50 | 13432.50 | 13432.50 | 13432.50 | 13432.50 | 13432.50 |
| 5 | 13732.62 | 13954.85 | 14004.60 | 14086.86 | 13731.52 | 13988.32 | 13917.14 | 13580.30 | 13981.12 |
| 10 | 13215.19 | 13020.16 | 13166.36 | 13051.04 | 12923.36 | 13036.98 | 12889.91 | 12964.71 | 12833.74 |
| 15 | 12030.82 | 12043.50 | 12054.88 | 11904.15 | 12001.71 | 11959.91 | 12014.97 | 11962.82 | 12113.15 |
| 20 | 9925.45 | 9847.14 | 9994.78 | 9828.39 | 9965.23 | 9877.80 | 9994.54 | 9907.19 | 9871.58 |
| 25 | 8203.33 | 8183.80 | 8235.81 | 8217.96 | 8158.24 | 8178.47 | 8249.60 | 8219.85 | 8128.88 |
| 30 | 6728.95 | 6670.89 | 6681.59 | 6646.07 | 6678.95 | 6637.24 | 6801.08 | 6684.45 | 6622.95 |
| 35 | 5559.06 | 5473.25 | 5520.82 | 5495.17 | 5536.20 | 5520.37 | 5505.94 | 5545.68 | 5519.64 |
| 40 | 4183.70 | 4155.02 | 4180.89 | 4212.20 | 4135.07 | 4115.53 | 4094.33 | 4200.97 | 4074.94 |
| 45 | 2631.40 | 2576.56 | 2560.50 | 2569.79 | 2578.36 | 2597.03 | 2559.89 | 2592.69 | 2602.98 |
| 50 | 1133.62 | 1146.13 | 1136.09 | 1115.51 | 1091.71 | 1090.08 | 1065.49 | 1060.84 | 1018.54 |
| 55 | 208.96 | 200.03 | 175.00 | 175.63 | 154.98 | 150.81 | 144.36 | 151.77 | 145.94 |
| 60 | 1.74 | 1.64 | 0.87 | 0.74 | 0.75 | 0.87 | 0.61 | 0.97 | 0.72 |
| 65 | 0.13 | 0.28 | 0.32 | 0.16 | 0.00 | 0.05 | 0.32 | 0.23 | 0.00 |
| 70 | 0.41 | 0.27 | 0.34 | 0.26 | 0.17 | 0.29 | 0.00 | 0.25 | 0.30 |
| 75 | 0.16 | 0.00 | 0.16 | 0.00 | 0.02 | 0.18 | 0.23 | 0.24 | 0.00 |
| 80 | 0.43 | 0.12 | 0.27 | 0.16 | 0.00 | 0.00 | 0.21 | 0.29 | 0.00 |
| 85 | 0.32 | 0.30 | 0.00 | 0.00 | 0.28 | 0.14 | 0.00 | 0.00 | 0.00 |
| 90 | 0.00 | 0.00 | 0.31 | 0.00 | 0.31 | 0.00 | 0.00 | 0.00 | 0.00 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_20 ~ C1320XT-160LXXK-XWEX-1310XT-SGXXMW.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|----------|-------|--------|
| 0-20 | 4580.72 | N.A. | 32.50 |
| 0-30 | 8368.11 | N.A. | 59.40 |
| 0-40 | 11774.96 | N.A. | 83.60 |
| 0-60 | 14086.51 | N.A. | 100.00 |
| 0-80 | 14087.1 | N.A. | 100.00 |
| 0-90 | 14087.26 | N.A. | 100.00 |
| 10-90 | 12797.96 | N.A. | 90.80 |
| 20-40 | 7194.24 | N.A. | 51.10 |
| 20-50 | 9188.55 | N.A. | 65.20 |
| 40-70 | 2311.97 | N.A. | 16.40 |
| 60-80 | 0.59 | N.A. | 0.00 |
| 70-80 | 0.17 | N.A. | 0.00 |
| 80-90 | 0.16 | 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 | 14087.26 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 1289.29 |
| 10-20 | 3291.43 |
| 20-30 | 3787.39 |
| 30-40 | 3406.84 |
| 40-50 | 1994.32 |
| 50-60 | 317.24 |
| 60-70 | 0.42 |
| 70-80 | 0.17 |
| 80-90 | 0.16 |
| 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

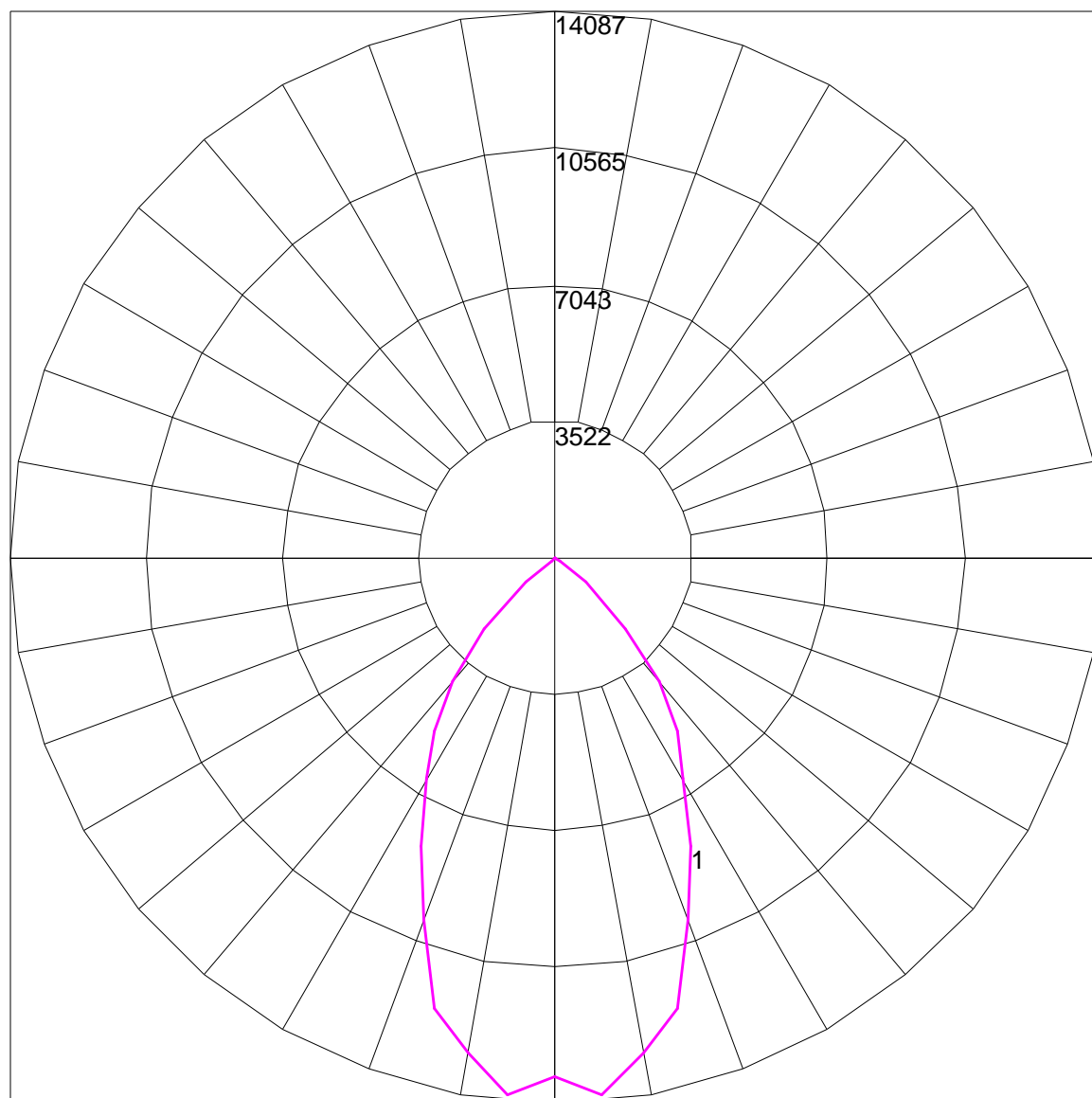
PHOTOMETRIC FILENAME : SP-00424_20 ~ C1320XT-160LXXK-XWEX-1310XT-SGXXMW.IES

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 | 68 | 75 | 71 | 68 | 66 |
| 6 | 85 | 75 | 69 | 64 | 83 | 75 | 68 | 64 | 73 | 68 | 64 | 72 | 67 | 63 | 70 | 66 | 63 | 61 |
| 7 | 80 | 70 | 64 | 59 | 79 | 70 | 63 | 59 | 68 | 63 | 59 | 67 | 62 | 58 | 66 | 62 | 58 | 57 |
| 8 | 76 | 66 | 59 | 55 | 75 | 65 | 59 | 55 | 64 | 58 | 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 |

POLAR GRAPH



Maximum Candela = 14086.86 Located At Horizontal Angle = 65, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180)