

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_45 ~ C1320YKSSXT-160LXXK-NDEX-MBI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_45_M-160L

[TESTLAB] Photopia 2017.2.1 see: www.ltiopics.com/ies

[ISSUE DATE]

[TEST DATE] 8/16/2017

[UPDATE] 11/08/2017

[MANUFAC] Spectrum Lighting

[LUMCAT] C1320YKSSXT-160L-xxK-ND-EX-MBI

[LUMINAIRE] Nom. 13" Diam. x 26.5" H Cylinder Downlight, Yoke Mounted, Narrow Beam

[OTHER] Integral Straight 3" Matte Black (interior) Deep Snoot for Additional Cutoff

[OTHER] Nom. 13" Diam. Cylinder / Nom. 13" Diam Snoot Opening

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

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

[OTHER] 24.5 Degree Beam Angle, 45.7 Degree Field Angle

[LAMPCAT] LED 4000lm

[LAMP] N/A, 19mm

[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 200L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	12355
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	159.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.42
Spacing Criterion (90-270)	0.42
Spacing Criterion (Diagonal)	0.42
Basic Luminous Shape	Circular
Luminous Length (0-180)	1.25 ft (Diameter)
Luminous Width (90-270)	1.25 ft (Diameter)
Luminous Height	0.00 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_45 ~ C1320YKSSXT-160LXXK-NDEX-MBI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	538	737	570
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00424_45 ~ C1320YKSSXT-160LXXK-NDEX-MBI.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	54643.79554643.79554643.79554643.79554643.79554643.79554643.79554643.79554643.79554643.79554643.795									
5	46788.05647276.12846226.12547017.27046906.31146396.51146466.27246848.57746422.69146784.621									
10	34474.63234292.39434741.26834880.31334796.20634850.27834177.65034290.40034514.71134884.296									
15	18584.35718199.47318547.94418499.66518309.15118482.09518432.63718432.12118409.33018199.680									
20	7091.207 7195.249 7112.759 7228.452 7298.784 7441.988 7585.000 7742.142 7869.261 7880.195									
25	4217.221 4172.892 4272.822 4215.788 4057.723 3817.429 3512.324 3264.022 3200.212 3041.639									
30	3253.396 3044.849 2805.010 2499.612 2437.828 2242.756 2255.784 2225.285 2350.463 2321.427									
35	859.897 962.354 1273.095 1411.972 1550.303 1529.074 1542.464 1503.248 1573.464 1525.054									
40	310.749 280.888 295.018 305.444 381.050 462.008 559.282 593.631 583.129 592.523									
45	43.389 39.701 43.490 38.554 39.701 42.912 35.913 46.446 55.340 59.436									
50	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000									
55	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000									
60	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000									
65	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000									
70	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000									
75	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000									
80	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000									
85	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000									
90	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000									

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	54643.79554643.79554643.79554643.79554643.79554643.79554643.79554643.79554643.79554643.795								
5	46418.05646426.14147377.09146914.97446631.82247148.40747245.97547209.42347086.230								
10	34657.01334659.11634795.99334759.64634816.75034851.16234915.71834747.77434372.128								
15	18407.14318363.83018325.20018447.01318383.78018210.93818369.06618468.26518021.225								
20	7816.385 7771.040 7674.536 7442.958 7500.400 7283.815 7096.913 7103.820 7085.832								
25	3035.802 3251.648 3470.783 3851.063 4076.226 4265.831 4140.205 4138.588 4183.287								
30	2245.605 2236.696 2282.734 2304.510 2385.121 2575.919 2892.520 2975.881 3221.133								
35	1517.223 1520.488 1496.764 1520.211 1588.217 1366.465 1210.278 977.500 877.808								
40	620.343 577.993 572.911 487.472 364.341 297.166 291.753 293.254 291.245								
45	56.364 44.598 43.705 45.145 38.654 42.727 47.617 44.344 46.007								
50	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000								
55	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000								
60	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000								
65	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000								
70	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000								
75	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000								
80	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000								
85	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000								
90	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000								

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_45 ~ C1320YKSSXT-160LXXK-NDEX-MBI.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	9403.21	N.A.	76.10
0-30	11377.5	N.A.	92.10
0-40	12256.25	N.A.	99.20
0-60	12354.5	N.A.	100.00
0-80	12354.5	N.A.	100.00
0-90	12354.5	N.A.	100.00
10-90	8226.67	N.A.	66.60
20-40	2853.04	N.A.	23.10
20-50	2951.29	N.A.	23.90
40-70	98.26	N.A.	0.80
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	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	12354.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	4127.83
10-20	5275.38
20-30	1974.29
30-40	878.75
40-50	98.26
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
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_45 ~ C1320YKSSXT-160LXXK-NDEX-MBI.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

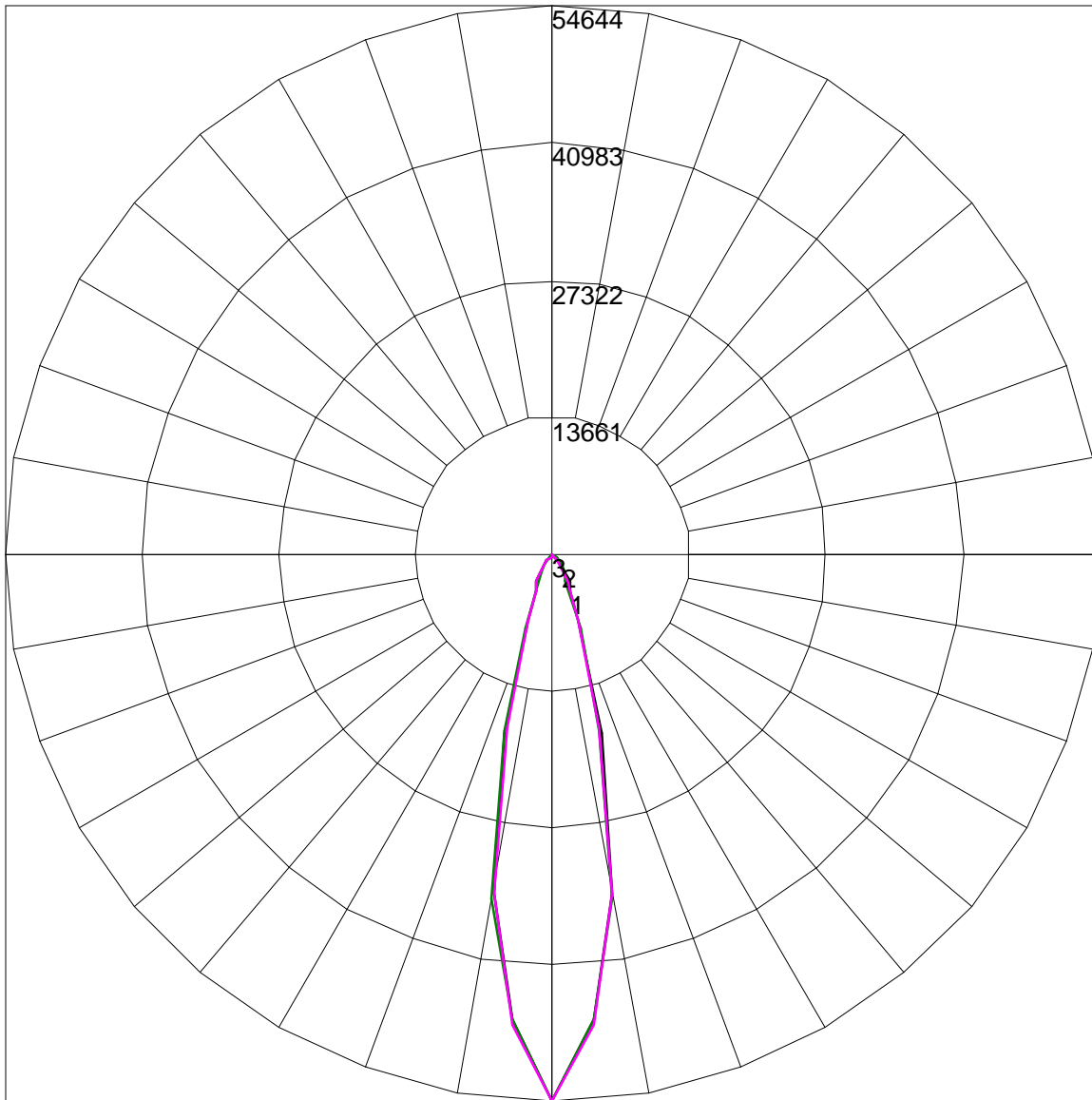
Effective Floor Cavity Reflectance 0.20

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	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96
2	111	107	104	102	109	106	103	101	103	100	98	100	98	96	97	96	94	93
3	107	103	99	96	106	101	98	95	99	96	94	97	94	92	94	93	91	90
4	104	98	94	91	102	97	94	91	95	92	90	93	91	89	92	90	88	86
5	101	95	90	87	99	94	90	87	92	89	86	91	88	85	89	87	85	84
6	98	91	87	84	96	90	86	83	89	86	83	88	85	82	87	84	82	81
7	95	88	84	81	94	87	83	80	86	83	80	85	82	80	84	81	79	78
8	92	85	81	78	91	85	81	78	84	80	77	83	80	77	82	79	77	76
9	89	82	78	75	88	82	78	75	81	78	75	80	77	75	80	77	75	74
10	87	80	76	73	86	80	76	73	79	75	73	78	75	73	78	75	73	72

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00424_45 ~ C1320YKSSXT-160LXXK-NDEX-MBI.IES

POLAR GRAPH



Maximum Candela = 54643.795 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (0 - 180)

2 - Vertical Plane Through Horizontal Angles (45 - 225)

3 - Vertical Plane Through Horizontal Angles (90 - 270)