

IES Report

ZipThree® | Ceiling Cable | 707 | Symmetric, up | 40° Symmetric, down | 90 CRI | HO

707-Z3-XX-4-48-CC-XX-XX-XX-X-0-Z-HO-359-U1S1-0-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	83	85	87	88
Total Lumens, 4' rail length (1219mm)	8850	9130	9316	9409
Lumens per foot (305mm)	2213	2282	2329	2352
Lumens per foot UP (305mm)	1524	1573	1605	1621
Lumens per foot DOWN (305mm)	688	710	724	732
Input Power (W), 4' rail length (1219mm)	107.7	107.7	107.7	107.7
Watts per foot (305mm)	27	27	27	27
CRI	94	94	94	94

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If the data above is in black, it is directly from a Vode source report. If it is in grey, it is factored from Vode source reports. Reference details on Vode source reports can be found on the [IES File Finder](#) page on vode.com.



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 707-Z3-48-Z-CC-HO-359-U1S1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911546 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] VODE LIGHTING

[LUMCAT] 707-Z3-48-Z-CC-HO-359-U1S1-AL

[LUMINAIRE] ZipThree LED Suspended, 48", 3500K, 90 CRI, zipper board, symmetric lens up/40° symmetric lens down,

[MORE] high output, clear anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9316
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	107.66
Ballast Factor	1.00
CIE Type	Semi-Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.26 ft
Luminous Width (90-270)	3.98 ft
Luminous Height	0.02 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3747	6467	11933
55	2574	4070	8135
65	2085	2951	5732
75	1719	2195	4119
85	1085	1363	2357

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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>
0.0	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5
1.0	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5
3.0	2240.1	2240.1	2240.1	2240.1	2240.1	2242.0	2242.0	2242.0	2243.9	2243.9
5.0	2209.7	2209.7	2211.6	2211.6	2213.5	2215.4	2217.3	2221.1	2223.0	2226.8
7.0	2160.3	2160.3	2162.2	2164.1	2167.9	2171.7	2177.4	2181.2	2186.9	2194.5
9.0	2093.8	2093.8	2097.6	2101.4	2107.1	2114.7	2122.3	2131.8	2141.3	2150.8
11.0	2010.2	2012.1	2015.9	2021.6	2031.1	2040.6	2053.9	2067.2	2082.4	2097.6
13.0	1909.5	1911.4	1917.1	1926.6	1939.9	1955.1	1972.2	1991.2	2010.2	2031.1
15.0	1797.4	1799.3	1806.9	1818.3	1833.5	1854.4	1877.2	1901.9	1928.5	1957.0
17.0	1670.1	1673.9	1683.4	1698.6	1717.6	1742.3	1770.8	1801.2	1835.4	1869.6
19.5	1501.0	1504.8	1516.2	1533.3	1558.0	1590.3	1624.5	1664.4	1706.2	1749.9
22.5	1288.2	1292.0	1305.3	1326.2	1356.6	1392.7	1436.4	1483.9	1535.2	1590.3
25.5	1077.3	1083.0	1096.3	1119.1	1153.3	1193.2	1240.7	1295.8	1356.6	1417.4
29.0	851.2	855.0	870.2	893.0	927.2	969.0	1020.3	1077.3	1141.9	1212.2
33.0	634.6	640.3	653.6	674.5	704.9	742.9	790.4	847.4	912.0	980.4
37.5	454.1	456.0	467.4	484.5	509.2	541.5	581.4	630.8	687.8	748.6
42.5	317.3	319.2	326.8	340.1	357.2	381.9	412.3	448.4	492.1	541.5
47.5	231.8	233.7	237.5	247.0	258.4	275.5	296.4	323.0	353.4	389.5
55.0	157.7	157.7	159.6	165.3	171.0	180.5	191.9	205.2	224.2	243.2
65.0	98.8	98.8	100.7	100.7	104.5	108.3	112.1	117.8	125.4	134.9
75.0	55.1	55.1	55.1	57.0	57.0	58.9	58.9	60.8	64.6	66.5
85.0	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	19.0
90.0	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
95.0	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
100.0	136.8	136.8	138.7	140.6	142.5	144.4	148.2	152.0	157.7	161.5
105.0	258.4	258.4	260.3	264.1	267.9	273.6	279.3	285.0	290.7	298.3
110.0	410.4	412.3	414.2	418.0	423.7	429.4	437.0	444.6	452.2	459.8
115.0	592.8	592.8	596.6	600.4	606.1	613.7	621.3	630.8	642.2	653.6
120.0	801.8	801.8	805.6	811.3	818.9	826.5	837.9	851.2	862.6	874.0
125.0	1041.2	1041.2	1045.0	1050.7	1058.3	1065.9	1075.4	1086.8	1096.3	1105.8
130.0	1288.2	1290.1	1292.0	1295.8	1301.5	1307.2	1314.8	1324.3	1333.8	1341.4
135.0	1525.7	1525.7	1527.6	1531.4	1535.2	1540.9	1548.5	1554.2	1561.8	1571.3
140.0	1742.3	1742.3	1744.2	1746.1	1749.9	1755.6	1761.3	1767.0	1772.7	1780.3
145.0	1934.2	1934.2	1936.1	1938.0	1939.9	1943.7	1947.5	1953.2	1957.0	1960.8
150.0	2097.6	2097.6	2097.6	2099.5	2101.4	2103.3	2105.2	2109.0	2110.9	2112.8
155.0	2230.6	2230.6	2230.6	2230.6	2232.5	2232.5	2234.4	2236.3	2236.3	2238.2
160.0	2331.3	2331.3	2331.3	2333.2	2331.3	2333.2	2333.2	2333.2	2333.2	2333.2
165.0	2407.3	2407.3	2407.3	2407.3	2407.3	2407.3	2407.3	2407.3	2407.3	2407.3
170.0	2456.7	2458.6	2458.6	2458.6	2458.6	2456.7	2458.6	2458.6	2458.6	2458.6
175.0	2487.1	2487.1	2487.1	2487.1	2487.1	2487.1	2487.1	2487.1	2487.1	2487.1
180.0	2494.7	2494.7	2494.7	2494.7	2494.7	2494.7	2494.7	2494.7	2494.7	2494.7

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>
0.0	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5
1.0	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5
3.0	2245.8	2245.8	2245.8	2247.7	2247.7	2247.7	2247.7	2249.6	2249.6
5.0	2228.7	2230.6	2234.4	2234.4	2238.2	2238.2	2240.1	2240.1	2242.0
7.0	2200.2	2205.9	2209.7	2215.4	2219.2	2223.0	2224.9	2224.9	2226.8
9.0	2160.3	2169.8	2179.3	2186.9	2194.5	2200.2	2204.0	2207.8	2207.8
11.0	2112.8	2126.1	2139.4	2152.7	2162.2	2171.7	2177.4	2181.2	2183.1
13.0	2052.0	2072.9	2091.9	2109.0	2124.2	2135.6	2145.1	2150.8	2152.7
15.0	1983.6	2010.2	2036.8	2057.7	2078.6	2093.8	2105.2	2112.8	2114.7

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CANDELA TABULATION - (Cont.)

17.0	1905.7	1939.9	1970.3	1998.8	2023.5	2044.4	2059.6	2067.2	2071.0
19.5	1795.5	1837.3	1877.2	1915.2	1945.6	1970.3	1989.3	2000.7	2004.5
22.5	1645.4	1698.6	1749.9	1795.5	1835.4	1865.8	1890.5	1903.8	1909.5
25.5	1483.9	1546.6	1603.6	1658.7	1704.3	1742.3	1770.8	1787.9	1791.7
29.0	1282.5	1352.8	1419.3	1482.0	1535.2	1578.9	1611.2	1630.2	1635.9
33.0	1056.4	1128.6	1200.8	1265.4	1322.4	1371.8	1406.0	1426.9	1432.6
37.5	818.9	887.3	957.6	1022.2	1079.2	1126.7	1160.9	1183.7	1191.3
42.5	596.6	655.5	716.3	773.3	824.6	868.3	902.5	923.4	929.1
47.5	431.3	476.9	522.5	570.0	611.8	649.8	678.3	697.3	703.0
55.0	267.9	296.4	324.9	355.3	383.8	410.4	431.3	444.6	452.2
65.0	144.4	157.7	171.0	186.2	199.5	214.7	226.1	233.7	235.6
75.0	70.3	74.1	79.8	85.5	91.2	95.0	100.7	102.6	104.5
85.0	19.0	19.0	19.0	20.9	20.9	20.9	20.9	20.9	20.9
90.0	5.7	5.7	3.8	3.8	3.8	3.8	3.8	3.8	3.8
95.0	60.8	60.8	62.7	64.6	66.5	66.5	68.4	72.2	72.2
100.0	165.3	171.0	172.9	176.7	180.5	184.3	188.1	188.1	190.0
105.0	304.0	309.7	315.4	321.1	326.8	332.5	334.4	336.3	336.3
110.0	469.3	478.8	488.3	495.9	501.6	507.3	511.1	511.1	513.0
115.0	666.9	676.4	684.0	693.5	699.2	706.8	710.6	712.5	712.5
120.0	883.5	894.9	904.4	912.0	919.6	925.3	931.0	932.9	932.9
125.0	1115.3	1126.7	1136.2	1145.7	1153.3	1157.1	1160.9	1162.8	1162.8
130.0	1350.9	1360.4	1369.9	1377.5	1383.2	1388.9	1390.8	1392.7	1392.7
135.0	1578.9	1586.5	1594.1	1599.8	1603.6	1607.4	1609.3	1611.2	1611.2
140.0	1786.0	1791.7	1797.4	1801.2	1803.1	1805.0	1806.9	1806.9	1808.8
145.0	1966.5	1968.4	1972.2	1974.1	1976.0	1976.0	1977.9	1977.9	1977.9
150.0	2116.6	2118.5	2118.5	2120.4	2120.4	2122.3	2122.3	2122.3	2124.2
155.0	2238.2	2240.1	2240.1	2240.1	2242.0	2242.0	2242.0	2242.0	2242.0
160.0	2335.1	2335.1	2335.1	2335.1	2337.0	2337.0	2337.0	2337.0	2337.0
165.0	2409.2	2409.2	2409.2	2409.2	2409.2	2409.2	2409.2	2409.2	2409.2
170.0	2458.6	2458.6	2458.6	2458.6	2458.6	2458.6	2458.6	2458.6	2458.6
175.0	2487.1	2487.1	2487.1	2487.1	2487.1	2487.1	2487.1	2487.1	2487.1
180.0	2494.7	2494.7	2494.7	2494.7	2494.7	2494.7	2494.7	2494.7	2494.7

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	722.46	N.A.	7.80
0-30	1355.1	N.A.	14.50
0-40	1863.37	N.A.	20.00
0-60	2526.02	N.A.	27.10
0-80	2841.67	N.A.	30.50
0-90	2897.57	N.A.	31.10
10-90	2727.06	N.A.	29.30
20-40	1140.91	N.A.	12.20
20-50	1578.55	N.A.	16.90
40-70	863.47	N.A.	9.30
60-80	315.64	N.A.	3.40
70-80	114.83	N.A.	1.20
80-90	55.90	N.A.	0.60
90-110	400.66	N.A.	4.30
90-120	1053.41	N.A.	11.30
90-130	2041.88	N.A.	21.90
90-150	4472.7	N.A.	48.00
90-180	6418.44	N.A.	68.90
110-180	6017.78	N.A.	64.60
0-180	9316.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	170.50
10-20	551.95
20-30	632.64
30-40	508.27
40-50	437.64
50-60	225.01
60-70	200.81
70-80	114.83
80-90	55.90
90-100	79.23
100-110	321.43
110-120	652.75
120-130	988.47
130-140	1208.12
140-150	1222.71
150-160	1029.74
160-170	679.53
170-180	236.47

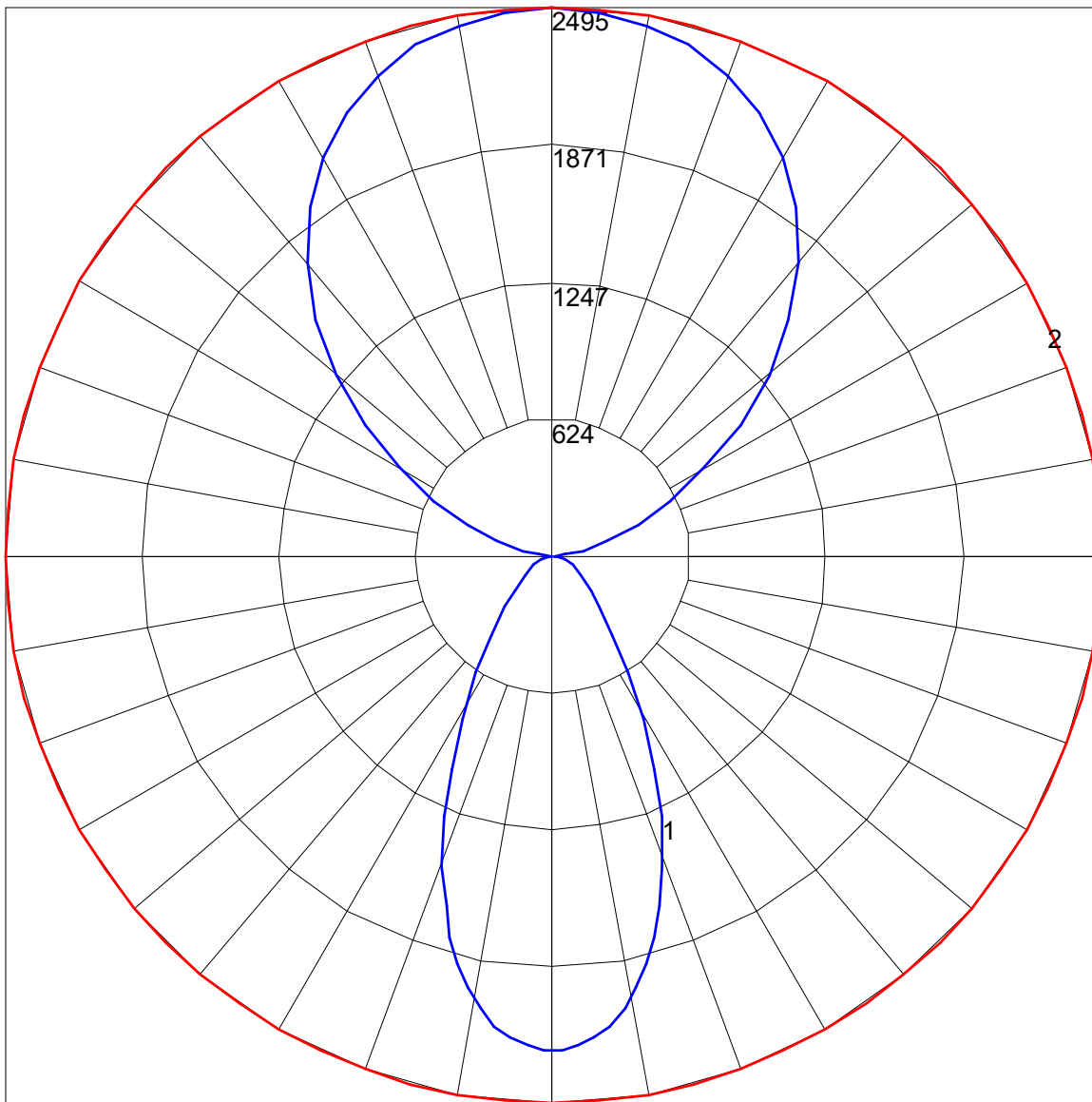
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	90	86	83	84	81	78	75	64	62	61	49	48	47	35	34	34	27
2	86	79	74	69	77	72	67	63	57	54	51	44	42	40	32	30	29	24
3	79	70	64	58	71	64	58	53	51	47	44	40	37	35	29	27	26	21
4	73	63	56	50	65	57	51	46	46	42	38	36	33	30	26	24	23	19
5	67	56	49	43	60	51	45	40	42	37	33	33	29	27	24	22	21	17
6	62	51	43	38	56	46	40	35	38	33	30	30	26	24	22	20	19	15
7	57	46	39	34	52	42	36	31	34	30	26	27	24	22	21	19	17	14
8	53	42	35	30	48	38	32	28	32	27	24	25	22	20	19	17	15	13
9	50	38	31	27	45	35	29	25	29	25	21	23	20	18	18	16	14	12
10	47	35	29	24	42	32	27	23	27	22	19	22	18	16	17	15	13	11

POLAR GRAPH



Maximum Candela = 2494.7 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)