

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-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	69	71	73	76
Total Lumens, 4' rail length (1219mm)	7367	7599	7754	7909
Lumens per foot (305mm)	1842	1900	1939	1977
Lumens per foot UP (305mm)	1345	1387	1416	1372
Lumens per foot DOWN (305mm)	497	512	523	507
Input Power (W), 4' rail length (1219mm)	107.2	107.2	107.2	107.2
Watts per foot (305mm)	26.8	26.8	26.8	26.8
CRI*	96	96	96	96

Due to the large number of options in Vode's product offering, most Vode IES reports are factored reports prepared from source reports. Source reports are the IES test reports prepared for Vode by an NVLAP accredited photometric test laboratory. Factored reports are based on data from the Vode source reports.

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.

* R9: ~74 @ 3500K



IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z3_CC_HO_359_U1S1_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L031805807R01 (SOURCE REPORT FOR REFERENCE)
 [TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
 [ISSUEDATE] 4/12/2018
 [MANUFAC] Vode Lighting
 [LUMCAT] 707-Z3-CC-Z-HO-359-U1S1-BL
 [LUMINAIRE] ZipThree Suspended, 48", 3500K, 90 CRI, zipper board,
 [MORE] symmetric lens up/40° symmetric lens down, high output, black anodized finish
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7754
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	72
Total Luminaire Watts	107.19
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)	0.25 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	1102	2986	11992
55	482	1187	5901
65	290	603	2740
75	183	389	1480
85	123	140	668

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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	2095.7	2095.7	2095.7	2095.7	2095.7	2095.7	2095.7	2095.7	2095.7	2095.7
1.0	2091.9	2091.9	2093.8	2093.8	2093.8	2093.8	2093.8	2093.8	2093.8	2093.8
3.0	2072.9	2072.9	2074.8	2074.8	2076.7	2076.7	2078.6	2078.6	2080.5	2082.4
5.0	2033.0	2033.0	2034.9	2036.8	2038.7	2042.5	2046.3	2050.1	2055.8	2059.6
7.0	1970.3	1972.2	1974.1	1977.9	1981.7	1989.3	1996.9	2004.5	2014.0	2023.5
9.0	1886.7	1886.7	1890.5	1898.1	1907.6	1919.0	1930.4	1945.6	1960.8	1976.0
11.0	1780.3	1782.2	1787.9	1797.4	1812.6	1827.8	1846.8	1867.7	1890.5	1913.3
13.0	1651.1	1654.9	1662.5	1675.8	1694.8	1717.6	1744.2	1772.7	1805.0	1837.3
15.0	1510.5	1514.3	1525.7	1540.9	1565.6	1596.0	1628.3	1666.3	1708.1	1749.9
17.0	1352.8	1358.5	1369.9	1390.8	1419.3	1455.4	1497.2	1544.7	1596.0	1649.2
19.5	1151.4	1157.1	1170.4	1195.1	1229.3	1271.1	1320.5	1379.4	1444.0	1510.5
22.5	912.0	917.7	932.9	959.5	997.5	1043.1	1102.0	1168.5	1242.6	1324.3
25.5	691.6	697.3	712.5	739.1	777.1	824.6	883.5	955.7	1037.4	1126.7
29.0	480.7	486.4	499.7	522.5	554.8	598.5	655.5	723.9	803.7	898.7
33.0	305.9	309.7	319.2	336.3	362.9	397.1	442.7	501.6	573.8	657.4
37.5	178.6	180.5	188.1	199.5	216.6	241.3	271.7	313.5	368.6	435.1
42.5	98.8	100.7	104.5	110.2	121.6	134.9	155.8	182.4	216.6	262.2
47.5	57.0	57.0	58.9	62.7	68.4	77.9	89.3	106.4	125.4	152.0
55.0	28.5	28.5	28.5	30.4	34.2	36.1	41.8	47.5	57.0	68.4
65.0	13.3	13.3	13.3	13.3	15.2	17.1	19.0	20.9	22.8	26.6
75.0	5.7	5.7	5.7	5.7	5.7	7.6	7.6	9.5	9.5	11.4
85.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
90.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
95.0	45.6	45.6	47.5	47.5	47.5	47.5	47.5	49.4	49.4	51.3
100.0	123.5	123.5	123.5	125.4	125.4	127.3	129.2	133.0	134.9	136.8
105.0	222.3	222.3	222.3	224.2	228.0	229.9	233.7	239.4	243.2	248.9
110.0	345.8	347.7	349.6	351.5	355.3	361.0	366.7	372.4	380.0	387.6
115.0	499.7	499.7	501.6	505.4	511.1	516.8	524.4	532.0	541.5	551.0
120.0	678.3	678.3	680.2	685.9	691.6	699.2	706.8	718.2	727.7	739.1
125.0	879.7	881.6	883.5	889.2	894.9	904.4	913.9	923.4	936.7	948.1
130.0	1098.2	1098.2	1102.0	1107.7	1113.4	1122.9	1132.4	1141.9	1155.2	1166.6
135.0	1320.5	1320.5	1324.3	1328.1	1335.7	1343.3	1350.9	1360.4	1371.8	1381.3
140.0	1533.3	1535.2	1537.1	1540.9	1546.6	1552.3	1558.0	1565.6	1573.2	1580.8
145.0	1723.3	1725.2	1727.1	1729.0	1732.8	1736.6	1740.4	1746.1	1749.9	1755.6
150.0	1884.8	1884.8	1884.8	1886.7	1888.6	1890.5	1894.3	1896.2	1900.0	1901.9
155.0	2012.1	2012.1	2012.1	2014.0	2014.0	2015.9	2017.8	2019.7	2021.6	2023.5
160.0	2112.8	2112.8	2112.8	2114.7	2114.7	2114.7	2116.6	2118.5	2118.5	2120.4
165.0	2190.7	2190.7	2190.7	2190.7	2192.6	2192.6	2194.5	2194.5	2196.4	2198.3
170.0	2249.6	2247.7	2249.6	2249.6	2249.6	2249.6	2251.5	2251.5	2253.4	2253.4
175.0	2285.7	2285.7	2285.7	2285.7	2287.6	2287.6	2287.6	2287.6	2287.6	2287.6
180.0	2300.9	2300.9	2300.9	2300.9	2300.9	2300.9	2300.9	2300.9	2300.9	2300.9

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	2095.7	2095.7	2095.7	2095.7	2095.7	2095.7	2095.7	2095.7	2095.7
1.0	2093.8	2093.8	2093.8	2093.8	2095.7	2095.7	2095.7	2095.7	2093.8
3.0	2084.3	2086.2	2088.1	2088.1	2090.0	2091.9	2091.9	2091.9	2091.9
5.0	2063.4	2069.1	2072.9	2076.7	2080.5	2082.4	2084.3	2084.3	2084.3
7.0	2033.0	2040.6	2048.2	2057.7	2063.4	2069.1	2071.0	2074.8	2074.8
9.0	1991.2	2006.4	2019.7	2031.1	2042.5	2050.1	2055.8	2059.6	2061.5
11.0	1938.0	1958.9	1979.8	1998.8	2014.0	2027.3	2036.8	2040.6	2044.4
13.0	1869.6	1901.9	1930.4	1957.0	1979.8	1996.9	2010.2	2017.8	2019.7
15.0	1793.6	1835.4	1873.4	1909.5	1939.9	1962.7	1979.8	1991.2	1993.1

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CANDELA TABULATION - (Cont.)

17.0	1706.2	1757.5	1806.9	1852.5	1890.5	1920.9	1943.7	1957.0	1962.7
19.5	1578.9	1647.3	1710.0	1770.8	1820.2	1860.1	1890.5	1907.6	1913.3
22.5	1409.8	1495.3	1575.1	1654.9	1719.5	1772.7	1812.6	1835.4	1843.0
25.5	1225.5	1324.3	1423.1	1518.1	1597.9	1666.3	1715.7	1744.2	1751.8
29.0	1003.2	1115.3	1229.3	1339.5	1438.3	1518.1	1578.9	1616.9	1630.2
33.0	760.0	874.0	991.8	1113.4	1227.4	1326.2	1396.5	1442.1	1457.3
37.5	518.7	619.4	731.5	849.3	970.9	1077.3	1157.1	1206.5	1221.7
42.5	319.2	395.2	480.7	585.2	689.7	777.1	866.4	915.8	932.9
47.5	190.0	241.3	296.4	370.5	446.5	522.5	585.2	628.9	644.1
55.0	85.5	106.4	134.9	169.1	209.0	247.0	283.1	307.8	315.4
65.0	32.3	39.9	49.4	58.9	72.2	85.5	96.9	104.5	108.3
75.0	13.3	15.2	19.0	20.9	24.7	28.5	32.3	34.2	36.1
85.0	1.9	3.8	3.8	3.8	3.8	5.7	5.7	5.7	5.7
90.0	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0
95.0	51.3	51.3	51.3	53.2	53.2	53.2	53.2	51.3	51.3
100.0	138.7	142.5	144.4	146.3	148.2	148.2	150.1	150.1	150.1
105.0	252.7	258.4	262.2	266.0	269.8	273.6	273.6	275.5	275.5
110.0	395.2	400.9	408.5	414.2	419.9	423.7	425.6	427.5	427.5
115.0	560.5	570.0	579.5	587.1	592.8	598.5	602.3	604.2	606.1
120.0	750.5	761.9	773.3	780.9	788.5	794.2	798.0	801.8	803.7
125.0	961.4	972.8	982.3	991.8	999.4	1005.1	1010.8	1014.6	1016.5
130.0	1178.0	1189.4	1198.9	1206.5	1214.1	1219.8	1225.5	1229.3	1231.2
135.0	1390.8	1400.3	1407.9	1413.6	1421.2	1426.9	1432.6	1436.4	1438.3
140.0	1586.5	1594.1	1599.8	1605.5	1611.2	1615.0	1620.7	1624.5	1626.4
145.0	1759.4	1763.2	1768.9	1772.7	1776.5	1782.2	1786.0	1789.8	1791.7
150.0	1905.7	1909.5	1911.4	1917.1	1920.9	1924.7	1928.5	1930.4	1932.3
155.0	2025.4	2029.2	2031.1	2034.9	2038.7	2040.6	2044.4	2046.3	2048.2
160.0	2124.2	2126.1	2128.0	2129.9	2133.7	2135.6	2139.4	2139.4	2139.4
165.0	2200.2	2202.1	2204.0	2205.9	2207.8	2207.8	2209.7	2211.6	2211.6
170.0	2255.3	2255.3	2257.2	2257.2	2259.1	2259.1	2261.0	2261.0	2261.0
175.0	2287.6	2289.5	2289.5	2289.5	2289.5	2289.5	2289.5	2291.4	2289.5
180.0	2300.9	2300.9	2300.9	2300.9	2300.9	2300.9	2300.9	2300.9	2300.9

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	651.48	N.A.	8.40
0-30	1179.63	N.A.	15.20
0-40	1568.69	N.A.	20.20
0-60	1975.21	N.A.	25.50
0-80	2079.99	N.A.	26.80
0-90	2091.16	N.A.	27.00
10-90	1933.68	N.A.	24.90
20-40	917.21	N.A.	11.80
20-50	1207.7	N.A.	15.60
40-70	481.59	N.A.	6.20
60-80	104.78	N.A.	1.40
70-80	29.71	N.A.	0.40
80-90	11.18	N.A.	0.10
90-110	334.18	N.A.	4.30
90-120	885.97	N.A.	11.40
90-130	1735.45	N.A.	22.40
90-150	3892.66	N.A.	50.20
90-180	5663.2	N.A.	73.00
110-180	5329.02	N.A.	68.70
0-180	7754.36	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	157.48
10-20	494.00
20-30	528.16
30-40	389.05
40-50	290.49
50-60	116.03
60-70	75.06
70-80	29.71
80-90	11.18
90-100	64.84
100-110	269.34
110-120	551.79
120-130	849.48
130-140	1061.83
140-150	1095.37
150-160	932.70
160-170	620.49
170-180	217.36

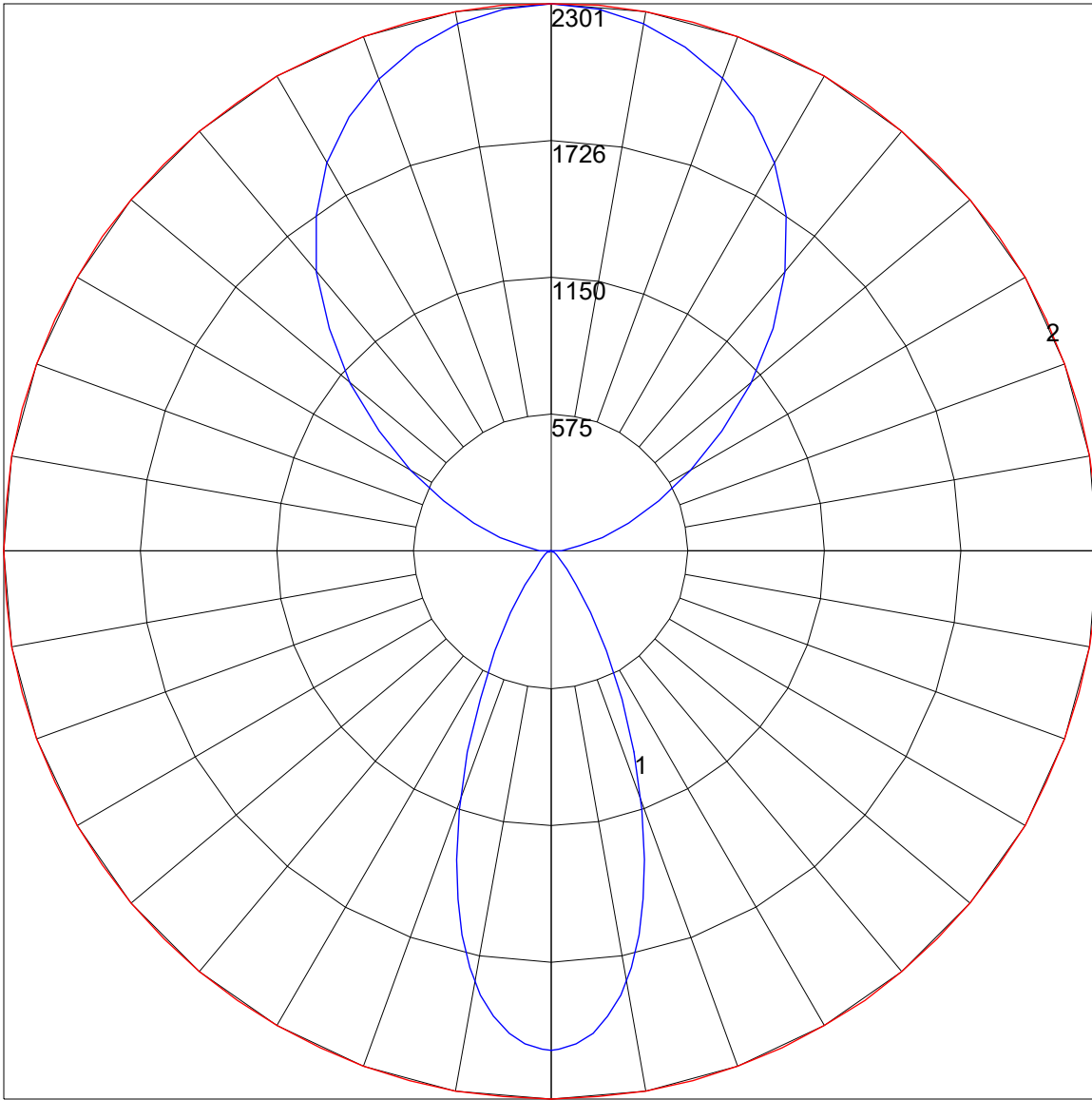
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35	27
1	94	90	86	83	83	80	78	75	63	61	59	47	46	45	32	32	31	24
2	86	79	74	70	77	71	67	63	56	53	51	42	41	39	30	29	28	22
3	79	71	64	59	71	64	58	54	51	47	44	38	36	34	27	26	25	20
4	73	63	56	51	65	57	51	47	46	42	38	35	32	30	25	24	22	18
5	67	57	50	44	60	52	45	41	41	37	34	32	29	27	23	22	20	17
6	62	51	44	39	56	47	40	36	38	33	30	29	26	24	21	20	19	15
7	58	47	40	34	52	42	36	32	34	30	27	27	24	22	20	18	17	14
8	54	43	36	31	48	39	33	29	32	27	24	25	22	20	19	17	16	13
9	50	39	32	28	45	36	30	26	29	25	22	23	20	18	17	16	14	12
10	47	36	29	25	42	33	27	23	27	23	20	22	19	17	16	15	13	11

POLAR GRAPH



Maximum Candela = 2300.9 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)