

IES Report

ZipThree® | Ceiling Cable | 707 | Symmetric with EdgeGlow, up | 60° Symmetric, down | 90 CRI | HO

707-Z3-XX-4-48-CC-XX-XX-XX-X-0-Z-HO-359-U2S2-0-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	75	89	91	95
Total Lumens, 4' rail length (1219mm)	7995	9481	9675	9868
Lumens per foot (305mm)	1999	2370	2419	2467
Lumens per foot UP (305mm)	1386	1476	1506	1459
Lumens per foot DOWN (305mm)	613	895	913	884
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.



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VODE_707_Z3_CC_HO_359_U2S2_AL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L031805804R01 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB

[ISSUE DATE] 4/12/2018

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z3-CC-Z-HO-359-U2S2-AL

[LUMINAIRE] ZipThree Suspended, 48", 3500K, 90 CRI, zipper board,

[MORE] symmetric lens with edgeglow up/60° symmetric lens down, 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	9675
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
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	5136	9245	17236
55	3277	5506	11873
65	2530	3788	8124
75	1955	2657	5530
85	985	1257	2674

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0.0	2466.2	2466.2	2466.2	2466.2	2466.2	2466.2	2466.2	2466.2	2466.2	2466.2
1.0	2464.3	2464.3	2464.3	2464.3	2464.3	2464.3	2464.3	2464.3	2464.3	2466.2
3.0	2454.8	2454.8	2454.8	2454.8	2454.8	2456.7	2456.7	2456.7	2458.6	2458.6
5.0	2432.0	2432.0	2432.0	2433.9	2433.9	2435.8	2437.7	2439.6	2441.5	2443.4
7.0	2397.8	2397.8	2399.7	2401.6	2403.5	2407.3	2409.2	2413.0	2416.8	2422.5
9.0	2350.3	2350.3	2352.2	2356.0	2359.8	2365.5	2371.2	2376.9	2384.5	2392.1
11.0	2289.5	2289.5	2293.3	2297.1	2304.7	2312.3	2321.8	2331.3	2342.7	2354.1
13.0	2211.6	2213.5	2217.3	2224.9	2234.4	2245.8	2261.0	2274.3	2289.5	2306.6
15.0	2120.4	2122.3	2128.0	2137.5	2150.8	2167.9	2186.9	2205.9	2228.7	2249.6
17.0	2012.1	2015.9	2023.5	2036.8	2053.9	2074.8	2099.5	2126.1	2154.6	2181.2
19.5	1858.2	1862.0	1873.4	1890.5	1913.3	1941.8	1974.1	2010.2	2046.3	2084.3
22.5	1649.2	1653.0	1666.3	1689.1	1719.5	1755.6	1797.4	1844.9	1894.3	1943.7
25.5	1423.1	1428.8	1444.0	1470.6	1506.7	1550.4	1601.7	1658.7	1721.4	1782.2
29.0	1157.1	1162.8	1181.8	1210.3	1248.3	1299.6	1358.5	1425.0	1497.2	1571.3
33.0	879.7	885.4	902.5	929.1	970.9	1020.3	1081.1	1153.3	1233.1	1316.7
37.5	625.1	630.8	644.1	668.8	704.9	748.6	803.7	870.2	948.1	1031.7
42.5	425.6	429.4	440.8	457.9	484.5	518.7	560.5	615.6	680.2	750.5
47.5	300.2	302.1	309.7	321.1	338.2	362.9	391.4	431.3	476.9	532.0
55.0	193.8	193.8	197.6	203.3	212.8	224.2	241.3	260.3	286.9	317.3
65.0	115.9	117.8	117.8	121.6	123.5	129.2	134.9	144.4	153.9	167.2
75.0	60.8	60.8	60.8	62.7	62.7	64.6	66.5	70.3	74.1	77.9
85.0	15.2	15.2	15.2	15.2	15.2	15.2	17.1	17.1	17.1	17.1
90.0	28.5	28.5	28.5	26.6	26.6	24.7	22.8	20.9	19.0	17.1
95.0	76.0	76.0	76.0	76.0	74.1	74.1	72.2	72.2	70.3	68.4
100.0	155.8	155.8	157.7	157.7	157.7	157.7	157.7	159.6	159.6	159.6
105.0	262.2	262.2	264.1	264.1	266.0	269.8	271.7	273.6	277.4	279.3
110.0	399.0	399.0	400.9	402.8	406.6	410.4	416.1	419.9	425.6	431.3
115.0	568.1	568.1	570.0	573.8	577.6	583.3	589.0	596.6	604.2	611.8
120.0	767.6	769.5	771.4	775.2	779.0	786.6	792.3	801.8	809.4	817.0
125.0	989.9	991.8	993.7	997.5	1003.2	1008.9	1016.5	1024.1	1031.7	1041.2
130.0	1221.7	1221.7	1223.6	1227.4	1231.2	1236.9	1244.5	1252.1	1259.7	1267.3
135.0	1444.0	1444.0	1445.9	1447.8	1453.5	1457.3	1463.0	1468.7	1474.4	1480.1
140.0	1647.3	1647.3	1649.2	1651.1	1653.0	1656.8	1660.6	1664.4	1666.3	1670.1
145.0	1822.1	1822.1	1822.1	1824.0	1825.9	1827.8	1829.7	1831.6	1833.5	1835.4
150.0	1966.5	1966.5	1966.5	1966.5	1968.4	1968.4	1970.3	1970.3	1972.2	1974.1
155.0	2082.4	2082.4	2082.4	2082.4	2084.3	2084.3	2084.3	2086.2	2086.2	2088.1
160.0	2175.5	2175.5	2175.5	2175.5	2177.4	2177.4	2177.4	2177.4	2177.4	2179.3
165.0	2247.7	2247.7	2247.7	2247.7	2247.7	2247.7	2247.7	2247.7	2247.7	2247.7
170.0	2297.1	2297.1	2297.1	2297.1	2297.1	2297.1	2297.1	2297.1	2297.1	2297.1
175.0	2325.6	2325.6	2325.6	2325.6	2325.6	2325.6	2325.6	2325.6	2325.6	2325.6
180.0	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1

Vert. Angles **Horizontal Angles**

	50	55	60	65	70	75	80	85	90
0.0	2466.2	2466.2	2466.2	2466.2	2466.2	2466.2	2466.2	2466.2	2466.2
1.0	2466.2	2466.2	2466.2	2466.2	2466.2	2466.2	2466.2	2466.2	2466.2
3.0	2458.6	2460.5	2460.5	2460.5	2462.4	2462.4	2462.4	2462.4	2462.4
5.0	2445.3	2447.2	2449.1	2451.0	2452.9	2454.8	2454.8	2454.8	2454.8
7.0	2426.3	2430.1	2433.9	2435.8	2439.6	2441.5	2443.4	2443.4	2443.4
9.0	2397.8	2405.4	2411.1	2416.8	2420.6	2424.4	2428.2	2430.1	2430.1
11.0	2363.6	2375.0	2382.6	2392.1	2397.8	2403.5	2407.3	2411.1	2411.1
13.0	2321.8	2335.1	2348.4	2359.8	2369.3	2378.8	2384.5	2386.4	2388.3
15.0	2270.5	2289.5	2306.6	2321.8	2335.1	2346.5	2354.1	2357.9	2359.8

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CANDELA TABULATION - (Cont.)

17.0	2207.8	2234.4	2257.2	2278.1	2295.2	2308.5	2318.0	2323.7	2325.6
19.5	2120.4	2154.6	2185.0	2213.5	2234.4	2251.5	2264.8	2272.4	2274.3
22.5	1993.1	2038.7	2080.5	2116.6	2145.1	2167.9	2185.0	2194.5	2196.4
25.5	1844.9	1903.8	1957.0	2002.6	2040.6	2069.1	2090.0	2101.4	2105.2
29.0	1649.2	1721.4	1787.9	1846.8	1892.4	1930.4	1955.1	1970.3	1974.1
33.0	1404.1	1489.6	1569.4	1639.7	1696.7	1740.4	1772.7	1789.8	1795.5
37.5	1122.9	1214.1	1301.5	1381.3	1445.9	1499.1	1533.3	1554.2	1561.8
42.5	834.1	919.6	1003.2	1083.0	1151.4	1208.4	1246.4	1267.3	1274.9
47.5	596.6	666.9	739.1	809.4	872.1	923.4	961.4	984.2	991.8
55.0	355.3	397.1	442.7	492.1	537.7	577.6	608.0	627.0	634.6
65.0	182.4	201.4	222.3	245.1	266.0	288.8	305.9	317.3	321.1
75.0	83.6	91.2	96.9	106.4	114.0	121.6	129.2	133.0	134.9
85.0	19.0	19.0	19.0	20.9	20.9	22.8	22.8	22.8	22.8
90.0	15.2	13.3	11.4	9.5	7.6	5.7	3.8	1.9	1.9
95.0	66.5	66.5	64.6	62.7	60.8	60.8	58.9	57.0	57.0
100.0	159.6	161.5	161.5	161.5	161.5	159.6	159.6	159.6	157.7
105.0	283.1	285.0	288.8	290.7	290.7	292.6	292.6	292.6	290.7
110.0	437.0	440.8	446.5	448.4	452.2	454.1	454.1	454.1	454.1
115.0	619.4	625.1	630.8	636.5	640.3	642.2	644.1	644.1	644.1
120.0	826.5	834.1	841.7	847.4	851.2	855.0	856.9	856.9	856.9
125.0	1048.8	1056.4	1064.0	1069.7	1073.5	1077.3	1079.2	1079.2	1081.1
130.0	1273.0	1280.6	1286.3	1290.1	1293.9	1295.8	1297.7	1299.6	1299.6
135.0	1485.8	1489.6	1493.4	1497.2	1499.1	1501.0	1502.9	1502.9	1504.8
140.0	1673.9	1675.8	1679.6	1681.5	1683.4	1685.3	1685.3	1687.2	1687.2
145.0	1837.3	1839.2	1841.1	1843.0	1843.0	1844.9	1844.9	1844.9	1844.9
150.0	1974.1	1976.0	1977.9	1977.9	1977.9	1979.8	1979.8	1979.8	1979.8
155.0	2088.1	2088.1	2090.0	2090.0	2090.0	2090.0	2090.0	2091.9	2091.9
160.0	2179.3	2179.3	2179.3	2179.3	2179.3	2179.3	2179.3	2179.3	2179.3
165.0	2247.7	2247.7	2247.7	2247.7	2247.7	2249.6	2249.6	2249.6	2249.6
170.0	2297.1	2297.1	2297.1	2297.1	2297.1	2297.1	2297.1	2297.1	2297.1
175.0	2325.6	2325.6	2325.6	2325.6	2325.6	2325.6	2325.6	2325.6	2325.6
180.0	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	821.02	N.A.	8.50
0-30	1599.29	N.A.	16.50
0-40	2267.97	N.A.	23.40
0-60	3175.93	N.A.	32.80
0-80	3584.51	N.A.	37.10
0-90	3651.15	N.A.	37.70
10-90	3463.24	N.A.	35.80
20-40	1446.95	N.A.	15.00
20-50	2047.71	N.A.	21.20
40-70	1172.68	N.A.	12.10
60-80	408.58	N.A.	4.20
70-80	143.86	N.A.	1.50
80-90	66.63	N.A.	0.70
90-110	387.18	N.A.	4.00
90-120	996.46	N.A.	10.30
90-130	1925.57	N.A.	19.90
90-150	4206.95	N.A.	43.50
90-180	6023.59	N.A.	62.30
110-180	5636.41	N.A.	58.30
0-180	9674.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	187.90
10-20	633.11
20-30	778.27
30-40	668.68
40-50	600.76
50-60	307.20
60-70	264.72
70-80	143.86
80-90	66.63
90-100	84.86
100-110	302.32
110-120	609.29
120-130	929.11
130-140	1136.11
140-150	1145.27
150-160	961.16
160-170	634.39
170-180	221.09

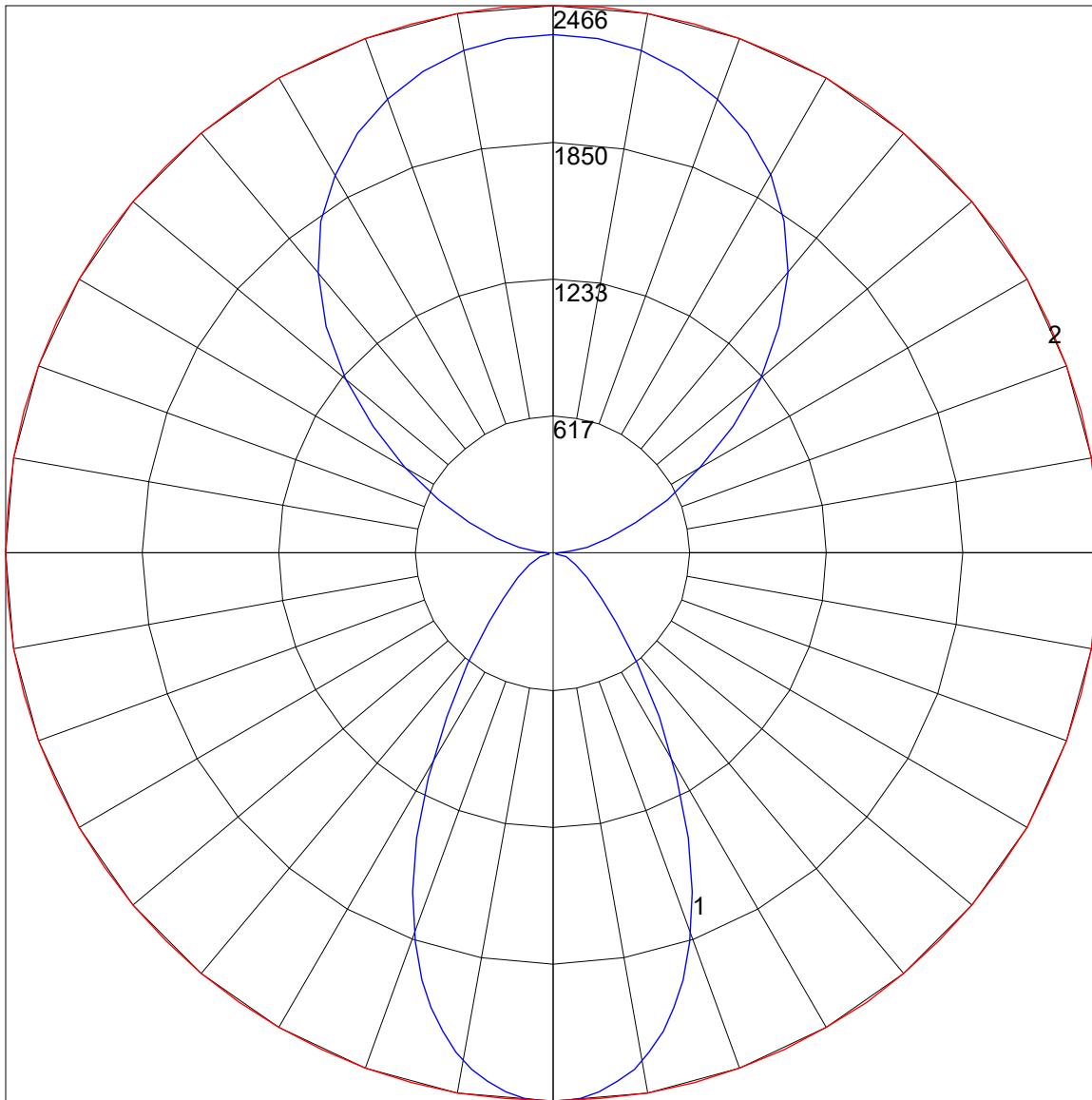
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	96	92	88	85	87	83	80	78	68	66	64	54	52	51	40	40	39	33
2	88	81	75	70	79	74	69	65	60	57	54	48	46	44	37	35	34	29
3	80	72	65	60	73	66	60	55	54	50	46	43	40	38	33	31	30	25
4	74	64	57	51	67	59	52	47	48	44	40	39	36	33	30	28	26	23
5	68	57	50	44	62	53	46	41	44	39	35	35	32	29	28	25	24	20
6	63	52	44	39	57	48	41	36	40	35	31	32	29	26	25	23	21	18
7	59	47	40	34	53	43	37	32	36	31	28	30	26	24	24	21	19	17
8	54	43	36	31	50	40	33	29	33	28	25	27	24	21	22	19	18	15
9	51	39	32	28	46	36	30	26	31	26	23	25	22	19	20	18	16	14
10	48	36	29	25	43	34	27	23	28	24	21	24	20	18	19	17	15	13

POLAR GRAPH



Maximum Candela = 2466.2 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)