

IES Report

ZipThree® | 707 | 85° Asymmetric , downlight only | 90 CRI | HO

707-Z3-4-48-XX-XX-X-0-Z-HO-359-A1-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	67	69	70	73
Total Lumens, 4' rail length (1219mm)	3564	3677	3752	3827
Lumens per foot (305mm)	891	919	938	957
Input Power (W), 4' rail length (1219mm)	53.6	53.6	53.6	53.6
Watts per foot (305mm)	13.4	13.4	13.4	13.4
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_HO_359_A1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L071704240 (SOURCE REPORT FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
[ISSUEDATE] 11/1/2017
[MANUFAC] Vode Lighting
[LUMCAT] 707-Z3-48-Z-HO-359-A1
[LUMINAIRE] ZipThree LED, 48", 3500K, 90 CRI, zipper board,
[MORE] 85 deg asymmetric down, high output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3756
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	70
Total Luminaire Watts	53.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.72
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.06 ft
Luminous Width (90-270)	3.96 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	100333	96608	63081
55	91084	88023	56488
65	77704	74380	47162
75	63440	60048	36300
85	50372	44328	24179

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	1509.32	1509.32	1509.32	1509.32	1509.32	1509.32	1509.32	1509.32	1509.32	1509.32
5	1691.68	1691.68	1689.74	1685.86	1681.98	1676.16	1668.40	1660.64	1650.94	1641.24
10	1858.52	1856.58	1852.70	1846.88	1839.12	1829.42	1815.84	1802.26	1784.80	1763.46
15	1963.28	1961.34	1957.46	1951.64	1940.00	1928.36	1912.84	1895.38	1874.04	1848.82
20	2011.78	2009.84	2005.96	1998.20	1990.44	1976.86	1961.34	1941.94	1920.60	1891.50
25	2007.90	2007.90	2004.02	1998.20	1988.50	1976.86	1963.28	1943.88	1922.54	1895.38
30	1959.40	1959.40	1955.52	1949.70	1941.94	1932.24	1918.66	1901.20	1881.80	1858.52
35	1868.22	1868.22	1866.28	1860.46	1854.64	1844.94	1835.24	1819.72	1802.26	1778.98
40	1736.30	1736.30	1734.36	1730.48	1726.60	1718.84	1709.14	1697.50	1681.98	1662.58
45	1567.52	1567.52	1565.58	1563.64	1559.76	1553.94	1546.18	1536.48	1524.84	1509.32
50	1369.64	1369.64	1367.70	1365.76	1361.88	1358.00	1352.18	1344.42	1334.72	1323.08
55	1154.30	1154.30	1152.36	1152.36	1148.48	1144.60	1140.72	1132.96	1125.20	1115.50
60	935.08	935.08	935.08	933.14	931.20	927.32	921.50	917.62	909.86	902.10
65	725.56	723.62	723.62	721.68	719.74	717.80	713.92	708.10	702.28	694.52
70	535.44	533.50	533.50	533.50	531.56	529.62	525.74	521.86	516.04	510.22
75	362.78	362.78	360.84	360.84	358.90	356.96	355.02	351.14	347.26	343.38
80	215.34	215.34	215.34	213.40	213.40	211.46	207.58	205.64	201.76	197.88
85	97.00	97.00	97.00	97.00	95.06	93.12	91.18	89.24	87.30	85.36
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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>	<u>95</u>
0	1509.32	1509.32	1509.32	1509.32	1509.32	1509.32	1509.32	1509.32	1509.32	1509.32
5	1629.60	1616.02	1602.44	1586.92	1573.34	1555.88	1540.36	1522.90	1505.44	1487.98
10	1742.12	1716.90	1689.74	1660.64	1629.60	1596.62	1561.70	1524.84	1487.98	1451.12
15	1819.72	1786.74	1749.88	1709.14	1666.46	1617.96	1567.52	1513.20	1456.94	1400.68
20	1862.40	1823.60	1780.92	1734.36	1681.98	1621.84	1557.82	1489.92	1414.26	1340.54
25	1864.34	1825.54	1780.92	1728.54	1672.28	1604.38	1528.72	1447.24	1356.06	1266.82
30	1827.48	1790.62	1747.94	1693.62	1635.42	1561.70	1478.28	1387.10	1284.28	1181.46
35	1753.76	1718.84	1678.10	1629.60	1569.46	1495.74	1408.44	1311.44	1198.92	1084.46
40	1639.30	1610.20	1573.34	1528.72	1472.46	1402.62	1315.32	1214.44	1098.04	977.76
45	1489.92	1464.70	1433.66	1392.92	1344.42	1278.46	1196.98	1098.04	985.52	855.54
50	1307.56	1286.22	1261.00	1228.02	1185.34	1131.02	1053.42	962.24	855.54	731.38
55	1101.92	1086.40	1067.00	1039.84	1004.92	958.36	896.28	814.80	715.86	607.22
60	890.46	876.88	861.36	840.02	812.86	774.06	723.62	653.78	576.18	483.06
65	686.76	675.12	661.54	647.96	624.68	595.58	556.78	504.40	440.38	370.54
70	502.46	492.76	481.12	467.54	452.02	428.74	401.58	364.72	316.22	265.78
75	337.56	329.80	320.10	310.40	298.76	283.24	263.84	238.62	207.58	176.54
80	194.00	190.12	184.30	178.48	170.72	161.02	149.38	133.86	116.40	98.94
85	81.48	79.54	77.60	73.72	69.84	65.96	60.14	54.32	46.56	40.74
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles Horizontal Angles

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0	1509.32	1509.32	1509.32	1509.32	1509.32	1509.32	1509.32	1509.32	1509.32	1509.32
5	1472.46	1453.06	1437.54	1420.08	1404.56	1389.04	1375.46	1361.88	1348.30	1338.60
10	1412.32	1373.52	1336.66	1299.80	1262.94	1229.96	1198.92	1169.82	1142.66	1117.44
15	1342.48	1284.28	1226.08	1169.82	1113.56	1063.12	1018.50	975.82	935.08	902.10
20	1262.94	1181.46	1107.74	1034.02	964.18	902.10	843.90	793.46	746.90	710.04
25	1171.76	1076.70	983.58	900.16	816.74	748.84	686.76	634.38	587.82	550.96
30	1072.82	960.30	859.42	768.24	680.94	611.10	550.96	498.58	457.84	422.92
35	966.12	843.90	737.20	644.08	558.72	490.82	436.50	388.00	353.08	322.04

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CANDELA TABULATION - (Cont.)

40	853.60	727.50	620.80	529.62	450.08	389.94	341.44	300.70	269.66	244.44
45	733.32	614.98	514.10	430.68	358.90	306.52	265.78	232.80	207.58	190.12
50	616.92	506.34	415.16	343.38	283.24	238.62	205.64	180.42	162.96	149.38
55	502.46	407.40	327.86	267.72	221.16	186.24	161.02	141.62	128.04	118.34
60	395.76	320.10	256.08	207.58	168.78	143.56	126.10	112.52	102.82	95.06
65	300.70	240.56	192.06	159.08	129.98	110.58	97.00	87.30	79.54	75.66
70	217.28	174.60	139.68	114.46	95.06	81.48	71.78	64.02	60.14	56.26
75	145.50	116.40	95.06	77.60	64.02	56.26	50.44	44.62	40.74	38.80
80	83.42	67.90	54.32	46.56	38.80	32.98	29.10	27.16	25.22	23.28
85	34.92	29.10	23.28	19.40	17.46	15.52	13.58	13.58	11.64	11.64
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	1509.32	1509.32	1509.32	1509.32	1509.32	1509.32	1509.32
5	1328.90	1319.20	1313.38	1307.56	1303.68	1301.74	1299.80
10	1096.10	1078.64	1063.12	1051.48	1043.72	1037.90	1035.96
15	873.00	847.78	828.38	812.86	801.22	795.40	793.46
20	677.06	651.84	630.50	614.98	603.34	595.58	593.64
25	517.98	494.70	473.36	459.78	448.14	442.32	440.38
30	393.82	372.48	355.02	341.44	331.74	327.86	325.92
35	298.76	279.36	265.78	254.14	248.32	242.50	242.50
40	226.98	211.46	199.82	192.06	188.18	184.30	184.30
45	174.60	164.90	157.14	153.26	149.38	147.44	145.50
50	139.68	131.92	128.04	124.16	122.22	120.28	120.28
55	112.52	106.70	104.76	100.88	98.94	98.94	98.94
60	91.18	87.30	85.36	83.42	81.48	81.48	79.54
65	71.78	67.90	65.96	65.96	64.02	64.02	64.02
70	52.38	50.44	48.50	48.50	46.56	46.56	46.56
75	36.86	34.92	32.98	32.98	32.98	31.04	31.04
80	21.34	21.34	21.34	19.40	19.40	19.40	19.40
85	11.64	9.70	9.70	9.70	9.70	9.70	7.76
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	541.01	N.A.	14.40
0-30	1129.64	N.A.	30.10
0-40	1820.02	N.A.	48.50
0-60	3085.56	N.A.	82.20
0-80	3697.4	N.A.	98.50
0-90	3755.6	N.A.	100.00
10-90	3613.43	N.A.	96.20
20-40	1279.01	N.A.	34.10
20-50	1966.33	N.A.	52.40
40-70	1665.78	N.A.	44.40
60-80	611.84	N.A.	16.30
70-80	211.60	N.A.	5.60
80-90	58.20	N.A.	1.50
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	3755.6	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	142.17
10-20	398.84
20-30	588.63
30-40	690.38
40-50	687.32
50-60	578.22
60-70	400.24
70-80	211.60
80-90	58.20
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

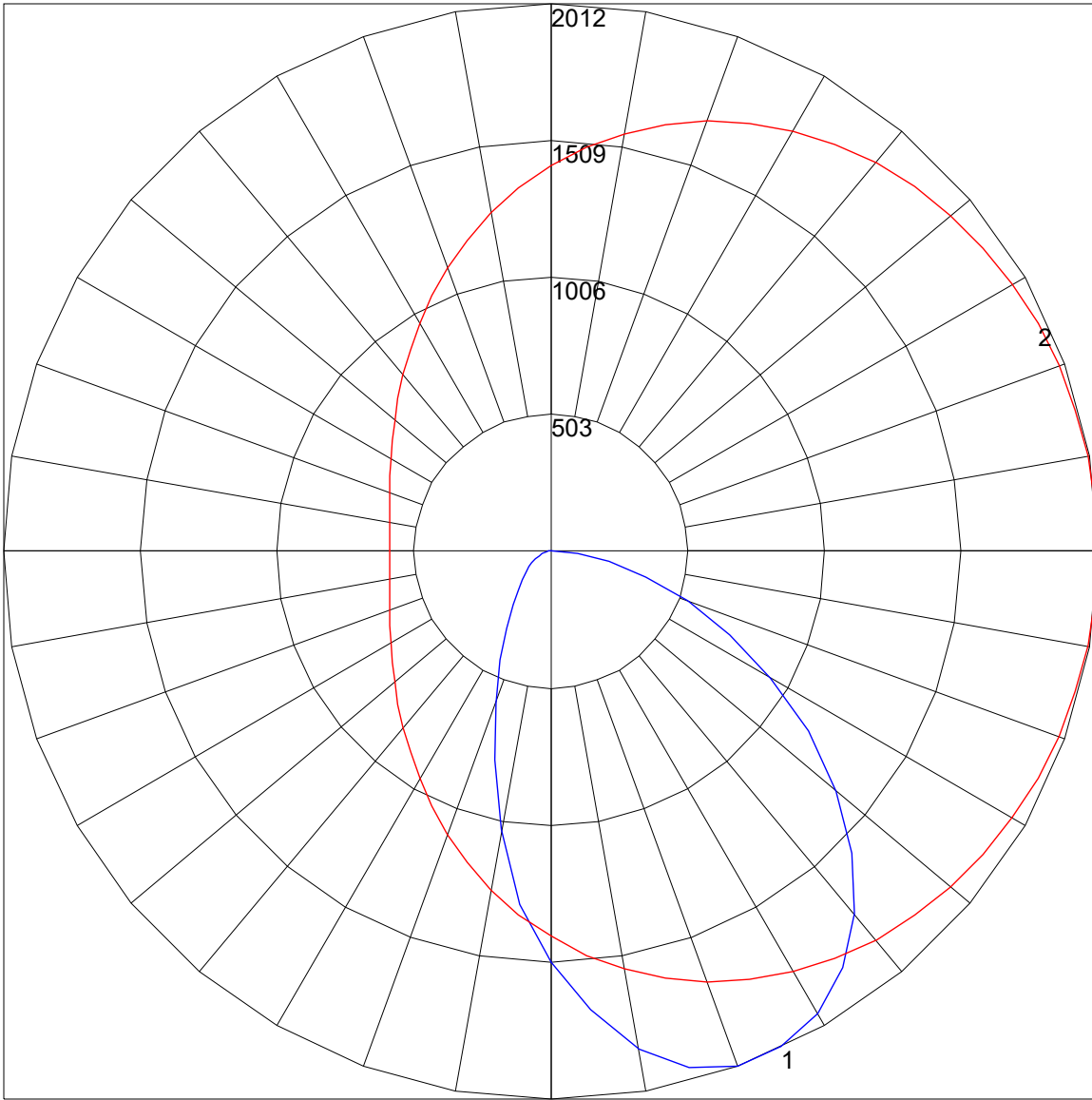
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	71	58	50	43	70	58	49	43	56	48	43	54	48	43	52	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 2011.78 Located At Horizontal Angle = 0, Vertical Angle = 20
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)