

## IES Report

# ZipTwo® | 707 | Square 3572, Diffuse | 90 CRI | HO

707-Z2-4-48-XX-XX-X-0-Z-HO-359-H6-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	128	132	135	136
Total Lumens, 4' rail length (1219mm)	5046	5206	5312	5365
Lumens per foot (305mm)	1262	1301	1328	1341
Input Power (W), 4' rail length (1219mm)	39.6	39.6	39.6	39.6
Watts per foot (305mm)	9.9	9.9	9.9	9.9
CRI	95	95	95	95

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\_Z2\_HO\_359\_H6\_WH.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011201 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 9/9/2020

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z2-48-Z-HO-359-H6-WH

[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, zipper board, square 3572,

[MORE] diffuse lens, high output

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5312
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	39.55
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	2.40
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	2.08
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.13 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.23 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9569	8748	8712
55	9492	8593	8296
65	9095	8275	7907
75	8434	7866	8092
85	7731	7451	7946

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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>
<b>0</b>	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0
<b>5</b>	510.0	510.0	508.5	508.5	507.0	505.5	502.5	501.0	498.0	495.0
<b>10</b>	564.0	564.0	562.5	561.0	556.5	553.5	547.5	543.0	537.0	529.5
<b>15</b>	621.0	621.0	618.0	615.0	609.0	603.0	594.0	585.0	574.5	564.0
<b>20</b>	678.0	676.5	673.5	667.5	660.0	651.0	639.0	625.5	610.5	594.0
<b>25</b>	733.5	732.0	727.5	720.0	709.5	697.5	681.0	663.0	643.5	621.0
<b>30</b>	786.0	784.5	778.5	769.5	756.0	739.5	720.0	697.5	672.0	645.0
<b>35</b>	834.0	832.5	825.0	813.0	798.0	777.0	753.0	727.5	696.0	664.5
<b>40</b>	874.5	873.0	864.0	850.5	832.5	808.5	781.5	750.0	715.5	678.0
<b>45</b>	906.0	903.0	894.0	879.0	858.0	831.0	801.0	765.0	726.0	685.5
<b>50</b>	924.0	921.0	912.0	895.5	873.0	843.0	810.0	772.5	730.5	685.5
<b>55</b>	928.5	924.0	915.0	898.5	874.5	844.5	808.5	769.5	724.5	678.0
<b>60</b>	916.5	913.5	903.0	886.5	862.5	832.5	796.5	756.0	709.5	661.5
<b>65</b>	891.0	888.0	877.5	861.0	838.5	808.5	774.0	732.0	687.0	637.5
<b>70</b>	852.0	849.0	840.0	825.0	802.5	774.0	741.0	700.5	655.5	607.5
<b>75</b>	802.5	801.0	792.0	777.0	757.5	730.5	699.0	661.5	619.5	573.0
<b>80</b>	748.5	747.0	739.5	726.0	708.0	682.5	654.0	618.0	577.5	534.0
<b>85</b>	691.5	690.0	684.0	672.0	655.5	633.0	606.0	573.0	534.0	495.0
<b>90</b>	639.0	636.0	630.0	619.5	604.5	583.5	559.5	528.0	495.0	456.0
<b>95</b>	598.5	597.0	591.0	582.0	568.5	549.0	526.5	499.5	468.0	430.5
<b>100</b>	567.0	564.0	559.5	550.5	538.5	520.5	502.5	475.5	444.0	411.0
<b>105</b>	535.5	534.0	529.5	522.0	508.5	495.0	475.5	451.5	423.0	390.0
<b>110</b>	507.0	505.5	501.0	495.0	483.0	468.0	448.5	426.0	400.5	370.5
<b>115</b>	480.0	478.5	474.0	466.5	456.0	442.5	424.5	402.0	376.5	349.5
<b>120</b>	450.0	448.5	444.0	438.0	427.5	414.0	397.5	376.5	352.5	327.0
<b>125</b>	418.5	418.5	414.0	408.0	397.5	385.5	369.0	349.5	327.0	303.0
<b>130</b>	387.0	385.5	382.5	376.5	366.0	354.0	340.5	322.5	301.5	276.0
<b>135</b>	354.0	352.5	349.5	343.5	334.5	324.0	309.0	291.0	267.0	243.0
<b>140</b>	318.0	316.5	313.5	309.0	300.0	289.5	274.5	253.5	231.0	210.0
<b>145</b>	282.0	280.5	277.5	273.0	265.5	252.0	232.5	214.5	196.5	180.0
<b>150</b>	243.0	241.5	240.0	235.5	225.0	207.0	193.5	178.5	166.5	154.5
<b>155</b>	204.0	202.5	201.0	193.5	178.5	166.5	154.5	147.0	139.5	129.0
<b>160</b>	162.0	162.0	159.0	145.5	135.0	126.0	121.5	115.5	108.0	97.5
<b>165</b>	117.0	117.0	106.5	99.0	93.0	90.0	88.5	84.0	75.0	69.0
<b>170</b>	73.5	69.0	60.0	55.5	57.0	57.0	55.5	52.5	49.5	45.0
<b>175</b>	33.0	27.0	25.5	28.5	30.0	28.5	28.5	28.5	27.0	25.5
<b>180</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**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>
<b>0</b>	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0
<b>5</b>	492.0	489.0	486.0	484.5	483.0	483.0	484.5	484.5	484.5
<b>10</b>	522.0	514.5	505.5	498.0	489.0	480.0	475.5	475.5	475.5
<b>15</b>	550.5	538.5	525.0	511.5	498.0	484.5	469.5	463.5	465.0
<b>20</b>	577.5	559.5	540.0	520.5	502.5	483.0	463.5	448.5	448.5
<b>25</b>	598.5	574.5	550.5	525.0	501.0	477.0	453.0	429.0	427.5
<b>30</b>	616.5	588.0	558.0	526.5	496.5	466.5	438.0	409.5	402.0
<b>35</b>	630.0	595.5	559.5	523.5	489.0	453.0	420.0	388.5	375.0
<b>40</b>	639.0	598.5	558.0	516.0	475.5	436.5	399.0	363.0	346.5
<b>45</b>	642.0	595.5	550.5	504.0	460.5	417.0	375.0	337.5	315.0
<b>50</b>	637.5	588.0	538.5	489.0	441.0	394.5	349.5	309.0	282.0
<b>55</b>	627.0	574.5	522.0	469.5	418.5	369.0	321.0	279.0	249.0
<b>60</b>	609.0	555.0	501.0	445.5	393.0	342.0	292.5	247.5	216.0

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	585.0	529.5	475.5	420.0	366.0	312.0	262.5	217.5	181.5
<b>70</b>	555.0	501.0	447.0	390.0	336.0	282.0	231.0	184.5	147.0
<b>75</b>	514.5	471.0	417.0	360.0	306.0	252.0	201.0	153.0	123.0
<b>80</b>	486.0	435.0	382.5	327.0	274.5	222.0	171.0	124.5	84.0
<b>85</b>	447.0	397.5	348.0	295.5	243.0	190.5	142.5	99.0	55.5
<b>90</b>	411.0	364.5	315.0	262.5	213.0	160.5	117.0	67.5	28.5
<b>95</b>	390.0	345.0	298.5	249.0	201.0	153.0	112.5	61.5	24.0
<b>100</b>	372.0	330.0	286.5	240.0	195.0	148.5	111.0	60.0	22.5
<b>105</b>	355.5	315.0	274.5	229.5	186.0	141.0	100.5	55.5	21.0
<b>110</b>	336.0	300.0	259.5	217.5	177.0	135.0	96.0	49.5	21.0
<b>115</b>	316.5	282.0	246.0	207.0	168.0	129.0	88.5	45.0	19.5
<b>120</b>	297.0	264.0	229.5	193.5	157.5	120.0	79.5	39.0	18.0
<b>125</b>	276.0	244.5	211.5	177.0	142.5	108.0	69.0	34.5	18.0
<b>130</b>	247.5	217.5	187.5	157.5	126.0	93.0	58.5	30.0	16.5
<b>135</b>	217.5	192.0	165.0	138.0	109.5	79.5	49.5	27.0	16.5
<b>140</b>	187.5	166.5	144.0	118.5	93.0	67.5	40.5	24.0	16.5
<b>145</b>	163.5	145.5	123.0	99.0	76.5	54.0	34.5	21.0	15.0
<b>150</b>	141.0	121.5	102.0	82.5	63.0	45.0	30.0	19.5	15.0
<b>155</b>	112.5	97.5	82.5	66.0	52.5	39.0	27.0	18.0	15.0
<b>160</b>	85.5	75.0	63.0	52.5	42.0	33.0	24.0	16.5	15.0
<b>165</b>	61.5	54.0	48.0	40.5	33.0	25.5	19.5	15.0	15.0
<b>170</b>	42.0	37.5	33.0	28.5	24.0	19.5	16.5	15.0	15.0
<b>175</b>	24.0	22.5	19.5	18.0	16.5	15.0	15.0	13.5	13.5
<b>180</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	205.66	N.A.	3.90
0-30	485.66	N.A.	9.10
0-40	888.20	N.A.	16.70
0-60	1972.5	N.A.	37.10
0-80	3126.75	N.A.	58.90
0-90	3616.73	N.A.	68.10
10-90	3568.52	N.A.	67.20
20-40	682.54	N.A.	12.80
20-50	1190.38	N.A.	22.40
40-70	1678.35	N.A.	31.60
60-80	1154.24	N.A.	21.70
70-80	560.20	N.A.	10.50
80-90	489.98	N.A.	9.20
90-110	790.15	N.A.	14.90
90-120	1098.82	N.A.	20.70
90-130	1340.5	N.A.	25.20
90-150	1618.36	N.A.	30.50
90-180	1695.31	N.A.	31.90
110-180	905.16	N.A.	17.00
0-180	5312.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	48.21
10-20	157.45
20-30	280.00
30-40	402.54
40-50	507.85
50-60	576.46
60-70	594.04
70-80	560.20
80-90	489.98
90-100	421.74
100-110	368.41
110-120	308.67
120-130	241.67
130-140	171.29
140-150	106.57
150-160	54.93
160-170	19.39
170-180	2.62

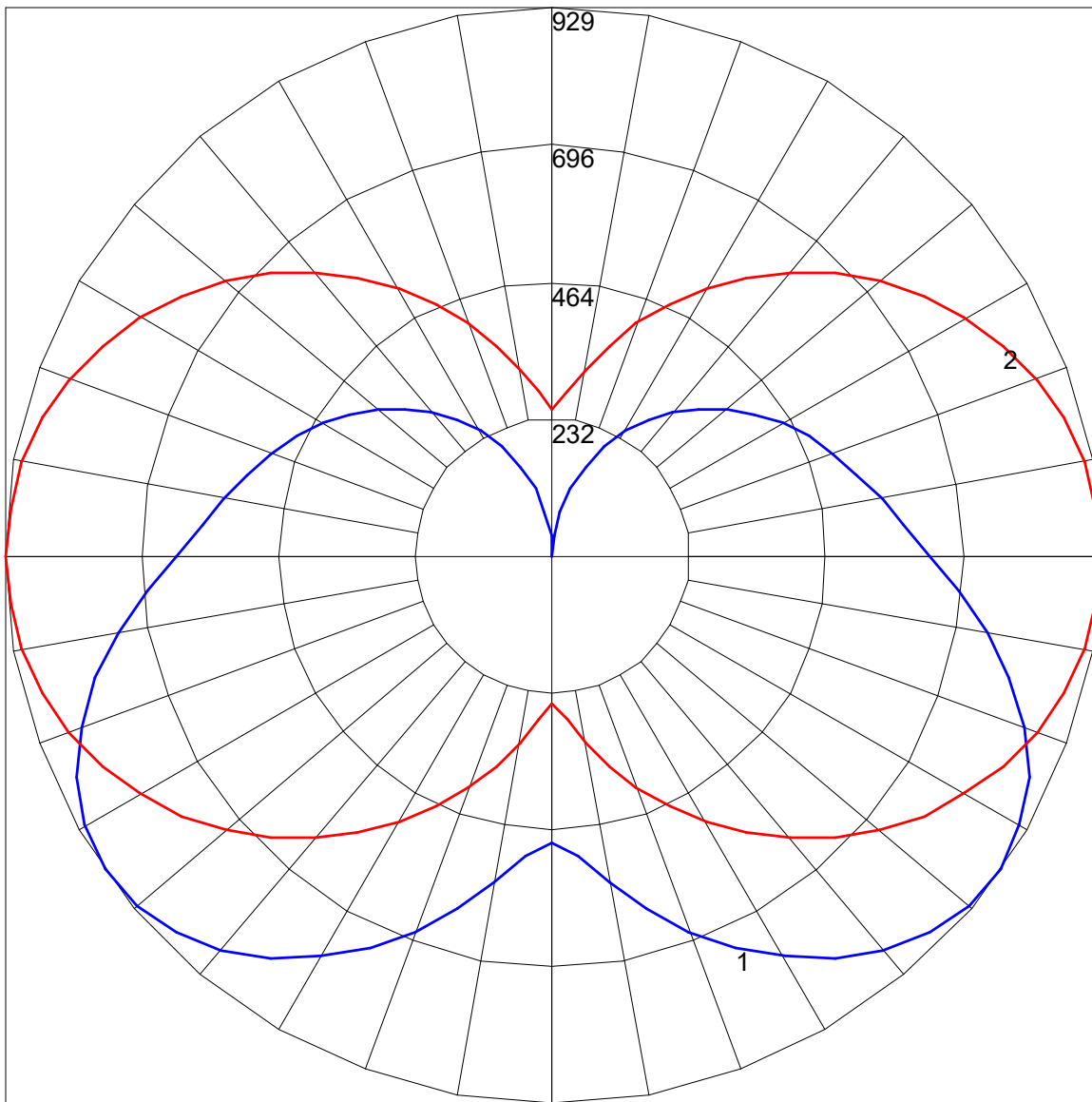
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	111	111	111	111	105	105	105	105	93	93	93	83	83	83	73	73	73	68
1	97	91	85	80	91	85	80	75	75	71	67	66	62	59	57	54	52	48
2	86	76	68	61	81	72	64	58	63	57	52	55	50	46	47	44	40	36
3	78	66	56	49	72	62	53	46	54	47	41	47	41	37	40	36	32	28
4	70	57	47	40	65	54	45	38	47	40	34	41	35	30	35	30	26	23
5	64	50	40	33	60	47	38	32	41	34	28	36	30	25	31	26	22	19
6	59	45	35	28	55	42	33	27	37	29	24	32	26	21	28	23	19	16
7	54	40	31	24	50	38	29	23	33	26	21	29	23	18	25	20	16	14
8	50	36	27	21	47	34	26	20	30	23	18	26	20	16	23	18	14	12
9	47	33	24	19	43	31	23	18	27	21	16	24	18	14	21	16	12	10
10	43	30	22	16	41	28	21	16	25	19	14	22	17	13	19	15	11	9

POLAR GRAPH



Maximum Candela = 928.5 Located At Horizontal Angle = 0, Vertical Angle = 55  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (55) (Through Max. Cd.)