

## IES Report

# ZipTwo® | 707 | Square 3554, Diffuse | 90 CRI | HO

707-Z2-4-48-XX-XX-X-0-Z-HO-359-J6-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	126	130	133	134
Total Lumens, 4' rail length (1219mm)	4969	5125	5230	5282
Lumens per foot (305mm)	1242	1281	1308	1321
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\_J6\_WH.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011206 (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-J6-WH

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

[MORE] square 3554, 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	5230
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	39.55
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	2.04
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.84
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.13 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.18 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11040	10347	11219
55	10864	10011	10637
65	10412	9567	10038
75	9717	9025	9437
85	8956	8525	9437

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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>	623.700	623.700	623.700	623.700	623.700	623.700	623.700	623.700	623.700	623.700
<b>5</b>	636.735	636.735	636.345	635.790	634.905	633.960	632.835	631.575	630.120	628.680
<b>10</b>	679.605	679.290	678.285	676.455	673.755	670.425	666.585	661.995	656.850	651.195
<b>15</b>	721.470	720.915	719.085	716.070	711.600	706.140	699.600	691.995	683.445	674.445
<b>20</b>	761.085	760.200	757.440	753.090	746.625	738.705	729.465	718.140	705.825	692.430
<b>25</b>	798.420	796.980	793.275	787.365	778.680	767.940	755.040	740.085	723.615	706.200
<b>30</b>	832.380	830.670	825.960	818.100	807.105	793.650	777.240	758.250	737.250	715.320
<b>35</b>	861.795	859.725	853.755	844.260	830.610	813.825	794.400	771.210	745.800	719.340
<b>40</b>	885.060	882.675	875.820	864.630	848.595	828.795	805.725	778.815	748.950	718.335
<b>45</b>	900.150	897.375	889.590	876.690	858.585	836.085	809.925	779.760	745.995	711.420
<b>50</b>	904.545	901.650	893.160	879.465	859.350	834.705	806.100	772.905	736.440	698.220
<b>55</b>	897.135	894.240	885.435	870.780	849.975	823.440	793.455	757.995	719.085	678.480
<b>60</b>	877.005	874.245	865.125	850.110	829.035	802.065	771.015	734.490	694.065	652.005
<b>65</b>	844.575	841.620	832.935	818.100	797.355	770.640	739.770	702.930	661.995	619.320
<b>70</b>	801.060	798.360	789.945	776.100	756.300	730.275	699.975	663.825	623.520	581.085
<b>75</b>	750.015	747.435	739.710	726.630	707.775	683.190	654.150	619.560	580.395	539.100
<b>80</b>	693.555	691.110	684.135	672.060	654.450	631.575	604.350	571.590	534.375	496.155
<b>85</b>	635.100	633.075	626.235	615.105	598.755	578.010	552.360	521.550	489.555	451.080
<b>90</b>	581.160	579.210	572.985	562.740	548.145	528.465	504.765	477.990	445.605	409.140
<b>95</b>	544.065	542.295	537.015	527.715	514.320	497.790	476.295	449.505	418.635	385.065
<b>100</b>	516.900	515.400	510.675	502.380	490.755	474.405	454.215	429.765	400.410	369.030
<b>105</b>	494.640	493.140	488.430	480.255	468.300	452.835	433.410	410.340	384.000	353.955
<b>110</b>	469.125	467.610	463.215	455.355	444.285	429.270	411.165	389.475	364.200	336.285
<b>115</b>	443.100	441.645	437.370	430.140	419.580	405.495	388.455	367.650	344.010	317.295
<b>120</b>	416.190	414.870	410.970	404.115	393.930	380.535	364.515	344.955	322.320	297.750
<b>125</b>	388.275	387.015	383.250	376.710	367.020	354.510	339.555	321.375	300.135	277.125
<b>130</b>	358.845	357.525	353.880	347.790	338.730	327.285	313.335	296.235	276.555	251.790
<b>135</b>	327.540	326.475	323.145	317.415	308.940	298.380	285.165	266.940	243.675	220.485
<b>140</b>	294.855	293.655	290.580	285.165	277.560	267.435	250.530	229.725	209.670	189.990
<b>145</b>	260.145	259.140	256.185	251.340	244.365	229.410	211.170	194.265	177.735	161.820
<b>150</b>	223.935	222.930	220.410	216.135	204.255	188.100	173.955	160.815	149.505	139.065
<b>155</b>	186.600	185.835	183.510	176.280	160.950	149.190	138.945	132.345	124.665	115.245
<b>160</b>	147.870	147.240	144.405	130.200	119.955	112.095	108.390	103.605	96.375	86.325
<b>165</b>	105.990	105.300	94.935	86.940	81.540	80.730	78.150	73.680	66.330	60.675
<b>170</b>	65.505	59.535	51.810	48.855	50.355	50.865	49.170	46.770	44.325	41.235
<b>175</b>	32.310	25.215	25.335	27.975	29.040	28.665	28.170	27.600	26.595	25.530
<b>180</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**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>	623.700	623.700	623.700	623.700	623.700	623.700	623.700	623.700	623.700
<b>5</b>	627.300	625.980	624.660	623.400	622.515	621.705	621.135	620.955	621.135
<b>10</b>	645.090	638.865	632.520	626.355	621.390	617.430	614.160	612.585	612.465
<b>15</b>	664.200	653.445	642.645	630.885	619.875	609.690	602.460	597.945	596.625
<b>20</b>	678.030	663.075	647.790	631.635	615.480	599.385	585.675	577.575	575.115
<b>25</b>	686.895	667.350	647.415	626.550	605.865	584.805	565.185	552.165	547.965
<b>30</b>	691.485	666.780	642.135	616.230	591.270	565.680	541.665	522.750	516.150
<b>35</b>	690.420	661.245	631.830	601.275	572.100	542.115	514.260	489.675	480.810
<b>40</b>	685.320	651.000	617.175	582.090	548.280	515.265	483.705	454.155	441.960
<b>45</b>	673.755	635.715	597.180	558.645	520.995	484.710	449.505	417.000	400.845
<b>50</b>	657.030	614.850	573.420	530.925	490.815	451.200	413.040	377.895	357.720
<b>55</b>	634.530	590.085	544.695	500.115	457.245	415.050	374.760	337.605	313.965
<b>60</b>	606.300	559.905	512.820	467.115	421.275	377.025	335.085	296.295	269.205

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	572.100	525.645	477.990	430.080	383.055	337.410	294.105	254.055	224.940
<b>70</b>	533.880	487.725	439.320	390.975	343.950	296.985	252.360	212.250	180.690
<b>75</b>	493.260	447.180	399.210	350.865	302.895	257.385	212.175	171.315	137.940
<b>80</b>	451.965	406.185	359.790	312.645	265.110	218.340	174.150	133.215	97.830
<b>85</b>	409.530	365.460	319.680	271.530	225.885	179.550	135.990	95.745	60.225
<b>90</b>	368.595	325.905	281.400	234.435	189.165	144.150	100.395	60.105	24.765
<b>95</b>	346.470	307.050	264.795	222.180	178.425	135.225	93.165	54.060	18.855
<b>100</b>	334.335	295.980	255.870	213.255	171.945	129.765	90.210	50.490	18.480
<b>105</b>	320.190	284.220	246.195	205.395	165.780	125.985	85.245	46.965	17.850
<b>110</b>	304.590	270.585	234.630	196.020	158.430	120.075	81.420	43.260	18.360
<b>115</b>	287.370	256.005	221.550	185.775	150.000	114.105	76.515	39.045	18.105
<b>120</b>	270.015	239.220	208.095	175.335	141.135	106.620	70.155	34.005	17.730
<b>125</b>	251.220	221.865	191.055	158.490	127.125	93.930	60.600	29.925	17.610
<b>130</b>	224.685	196.335	168.675	140.070	111.585	81.165	51.555	25.905	17.220
<b>135</b>	196.215	172.200	147.735	122.025	96.570	69.225	43.185	23.130	16.725
<b>140</b>	169.425	149.055	128.310	104.745	81.285	58.215	36.270	21.060	16.215
<b>145</b>	146.730	130.770	108.450	86.820	67.455	47.085	30.870	19.110	15.840
<b>150</b>	126.360	107.940	89.520	72.555	55.455	40.620	28.170	18.540	16.095
<b>155</b>	100.215	85.815	73.305	58.590	46.275	35.460	25.395	18.360	16.215
<b>160</b>	76.770	66.135	55.890	46.590	38.160	29.865	22.260	17.535	15.840
<b>165</b>	54.765	48.780	42.945	36.270	30.495	24.390	19.680	16.725	15.465
<b>170</b>	37.905	34.830	31.365	27.660	23.445	20.250	17.850	16.410	15.720
<b>175</b>	24.075	22.575	20.805	19.245	18.105	17.040	16.290	15.840	15.720
<b>180</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	249.80	N.A.	4.80
0-30	569.89	N.A.	10.90
0-40	1009.12	N.A.	19.30
0-60	2123.85	N.A.	40.60
0-80	3239.06	N.A.	61.90
0-90	3689.43	N.A.	70.50
10-90	3628.78	N.A.	69.40
20-40	759.32	N.A.	14.50
20-50	1291.14	N.A.	24.70
40-70	1697.2	N.A.	32.50
60-80	1115.21	N.A.	21.30
70-80	532.75	N.A.	10.20
80-90	450.37	N.A.	8.60
90-110	714.41	N.A.	13.70
90-120	996.30	N.A.	19.00
90-130	1217.56	N.A.	23.30
90-150	1471.01	N.A.	28.10
90-180	1540.59	N.A.	29.50
110-180	826.18	N.A.	15.80
0-180	5230.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	60.66
10-20	189.15
20-30	320.09
30-40	439.23
40-50	531.82
50-60	582.92
60-70	582.46
70-80	532.75
80-90	450.37
90-100	379.72
100-110	334.69
110-120	281.89
120-130	221.26
130-140	156.53
140-150	96.92
150-160	49.64
160-170	17.45
170-180	2.50

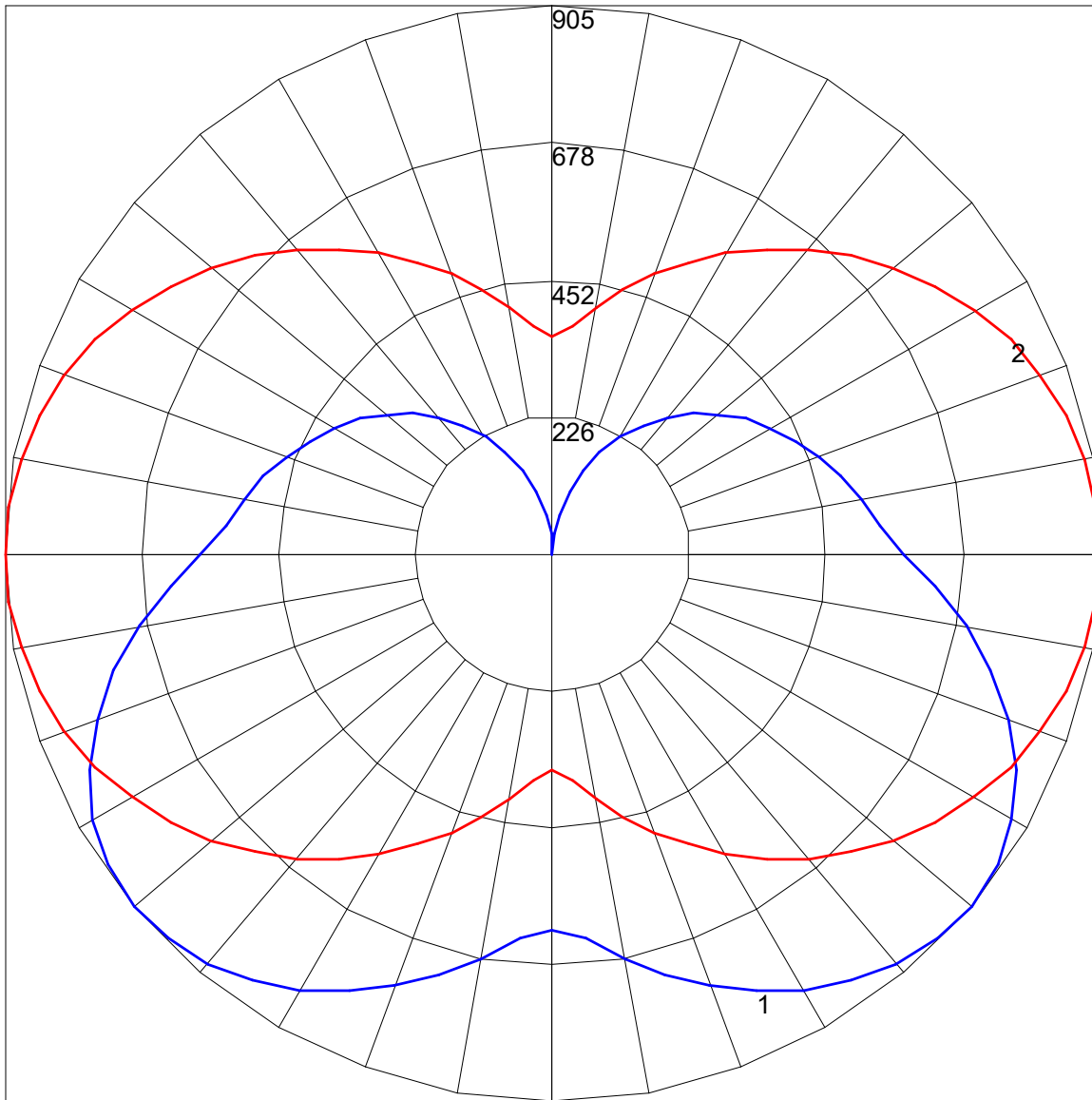
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	112	112	112	112	106	106	106	106	95	95	95	84	84	84	75	75	75	71
1	98	92	86	81	92	87	82	77	77	73	69	68	65	62	60	57	55	51
2	88	78	70	63	82	73	66	60	65	59	54	57	52	48	50	46	43	39
3	79	67	58	50	74	63	55	48	56	49	43	49	43	39	43	38	34	31
4	71	58	49	41	67	55	46	39	49	41	36	43	37	32	37	32	28	25
5	65	51	42	35	61	48	40	33	43	36	30	38	32	27	33	28	24	21
6	60	46	36	29	56	43	34	28	38	31	26	34	28	23	30	25	21	18
7	55	41	32	25	52	39	30	24	35	27	22	31	24	20	27	22	18	15
8	51	37	28	22	48	35	27	21	31	24	19	28	22	18	24	19	16	13
9	48	34	25	20	45	32	24	19	29	22	17	25	20	16	22	18	14	12
10	44	31	23	17	42	29	22	17	26	20	15	23	18	14	21	16	12	10

POLAR GRAPH



Maximum Candela = 904.545 Located At Horizontal Angle = 0, Vertical Angle = 50  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (50) (Through Max. Cd.)