

#### IES Report

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

707-Z2-4-48-XX-XX-X-0-Z-HO-359-J9-X-BL-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	109	112	114	115
Total Lumens, 4' rail length (1219mm)	4278	4413	4503	4548
Lumens per foot (305mm)	1069	1103	1126	1137
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](http://vode.com).



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : VODE\_707\_Z2\_HO\_359\_J9\_BL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011208 (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-J9-BL

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

[MORE] square 3554, side diffuse black lens, high output

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4503
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	39.55
Ballast Factor	1.00
CIE Type	General Diffuse
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)	0.13 ft
Luminous Width (90-270)	3.99 ft
Luminous Height	0.17 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8363	6295	690
55	9452	7322	664
65	10187	8140	650
75	10616	8955	704
85	11083	10070	1087

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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>	34.935	34.935	34.935	34.935	34.935	34.935	34.935	34.935	34.935	34.935
<b>5</b>	68.775	68.775	68.145	68.595	66.645	64.815	62.370	59.415	56.955	54.195
<b>10</b>	136.800	136.110	134.850	132.270	129.315	124.665	119.265	112.350	105.615	98.145
<b>15</b>	210.105	209.100	206.460	202.380	195.585	187.215	178.170	166.725	155.790	143.970
<b>20</b>	286.305	285.420	281.655	275.610	265.185	253.740	240.465	225.690	209.790	192.510
<b>25</b>	367.650	365.760	360.480	352.320	338.175	322.770	305.730	285.795	264.420	241.980
<b>30</b>	446.865	444.540	438.690	428.325	412.170	393.240	371.610	346.215	319.245	290.955
<b>35</b>	523.815	521.430	513.630	499.935	480.495	459.435	433.095	403.170	370.740	337.035
<b>40</b>	595.110	591.780	582.285	567.765	546.450	519.045	490.185	456.990	419.460	380.475
<b>45</b>	658.230	655.155	644.835	627.240	603.540	573.930	540.795	503.505	463.275	419.715
<b>50</b>	711.045	707.640	695.880	677.220	652.380	620.760	584.730	542.925	497.040	452.400
<b>55</b>	749.895	746.745	735.555	717.075	689.730	657.345	619.245	575.250	524.250	478.800
<b>60</b>	776.925	773.280	761.580	742.035	715.695	681.435	642.390	597.810	549.660	495.720
<b>65</b>	790.005	786.165	775.095	757.365	730.530	697.200	657.030	611.580	561.405	505.710
<b>70</b>	789.120	785.355	774.855	757.620	730.530	699.285	661.380	616.920	567.255	509.175
<b>75</b>	779.310	775.920	765.990	748.890	724.620	694.320	656.655	614.910	568.020	510.180
<b>80</b>	763.215	760.080	750.900	735.300	712.170	683.055	648.675	607.500	560.715	508.035
<b>85</b>	742.980	740.085	731.415	716.640	695.265	667.725	635.160	595.860	551.160	504.330
<b>90</b>	721.470	718.710	710.100	696.075	675.765	650.565	618.555	581.970	539.100	494.955
<b>95</b>	699.975	697.020	688.845	675.330	656.655	631.380	601.140	565.680	521.175	482.385
<b>100</b>	678.480	675.705	667.980	655.020	636.420	612.090	583.350	548.580	507.855	467.430
<b>105</b>	656.085	653.580	645.780	633.075	614.475	591.210	563.610	530.355	493.005	451.080
<b>110</b>	632.460	630.060	622.335	609.630	592.410	568.770	541.665	507.660	474.840	434.670
<b>115</b>	605.925	603.720	596.310	583.860	566.700	544.125	517.965	488.235	452.085	413.295
<b>120</b>	575.490	573.225	566.130	554.115	537.090	516.840	492.705	462.390	427.815	390.915
<b>125</b>	540.795	538.650	531.615	520.365	505.395	485.655	461.760	433.350	401.790	367.155
<b>130</b>	503.325	501.255	494.895	485.220	470.190	451.275	428.760	402.045	371.175	334.905
<b>135</b>	460.950	458.940	453.210	443.535	429.765	412.545	391.800	363.630	328.050	293.400
<b>140</b>	413.295	411.600	406.500	398.025	385.065	369.735	344.520	312.645	282.150	252.660
<b>145</b>	361.620	360.165	356.145	348.420	337.095	315.480	289.005	263.865	238.590	214.695
<b>150</b>	307.425	305.910	302.835	296.235	278.760	256.500	236.010	216.270	198.720	183.195
<b>155</b>	251.970	251.040	248.385	238.905	216.900	200.985	186.150	175.785	164.025	150.255
<b>160</b>	194.385	193.575	191.565	172.635	158.310	148.050	142.455	135.360	125.355	111.405
<b>165</b>	134.415	133.350	122.085	111.780	104.355	103.800	100.020	93.615	83.490	75.570
<b>170</b>	77.700	71.415	62.235	58.650	60.735	62.055	60.360	57.780	55.200	51.555
<b>175</b>	35.460	27.795	28.605	31.935	33.765	34.080	33.630	33.000	31.755	30.240
<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>	34.935	34.935	34.935	34.935	34.935	34.935	34.935	34.935	34.935
<b>5</b>	51.495	48.915	46.590	44.130	42.180	40.230	38.790	37.725	36.585
<b>10</b>	89.835	80.970	72.240	63.120	55.140	47.970	41.865	38.220	35.955
<b>15</b>	130.005	116.310	102.225	87.390	72.930	58.410	46.140	38.415	35.340
<b>20</b>	173.775	153.900	133.980	113.610	93.555	73.185	52.995	39.105	33.945
<b>25</b>	216.765	190.995	165.285	139.065	113.040	87.645	61.995	40.365	32.565
<b>30</b>	260.085	228.150	196.215	164.205	132.900	101.100	70.665	42.555	30.810
<b>35</b>	300.075	262.035	224.625	186.840	150.195	113.295	78.090	44.895	28.920
<b>40</b>	338.295	294.855	251.850	207.405	165.720	123.975	84.435	46.590	25.770
<b>45</b>	371.745	324.090	275.805	226.515	180.120	138.495	90.345	49.485	24.525
<b>50</b>	399.960	347.850	295.485	244.185	193.125	145.095	100.080	52.050	22.125
<b>55</b>	425.115	369.855	313.905	255.930	202.500	149.055	103.740	52.815	19.485
<b>60</b>	442.470	384.120	325.965	266.055	209.985	154.215	104.985	52.875	17.100

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	453.210	393.675	333.960	273.915	215.385	159.375	106.935	54.630	14.460
<b>70</b>	461.070	399.585	340.305	278.505	218.775	159.870	108.075	54.765	11.940
<b>75</b>	460.695	401.985	341.880	279.015	219.915	160.560	110.265	52.680	10.185
<b>80</b>	457.485	400.155	339.870	278.325	219.405	161.820	113.415	53.445	8.175
<b>85</b>	451.575	394.440	336.150	277.500	218.160	159.180	112.845	52.245	6.795
<b>90</b>	442.845	387.900	330.945	270.780	213.435	155.595	110.775	49.350	7.035
<b>95</b>	431.145	378.780	323.460	264.795	208.905	153.090	108.945	48.780	7.170
<b>100</b>	417.765	367.155	313.530	258.270	204.015	149.745	104.115	46.455	5.655
<b>105</b>	405.570	355.140	303.660	249.780	196.335	143.145	98.205	43.695	5.160
<b>110</b>	388.530	341.130	291.525	238.965	188.610	137.175	88.965	38.280	6.420
<b>115</b>	369.975	325.350	277.245	228.780	179.745	131.640	85.560	34.890	6.540
<b>120</b>	350.370	306.675	261.840	215.955	169.800	122.340	75.435	28.920	6.915
<b>125</b>	327.855	285.855	241.545	195.330	151.770	108.705	62.610	23.835	7.800
<b>130</b>	293.850	254.115	214.065	173.010	134.160	97.125	53.625	20.805	8.055
<b>135</b>	257.070	222.435	187.845	152.010	116.805	79.530	43.890	18.675	8.670
<b>140</b>	222.810	192.195	162.510	129.945	97.950	65.700	36.030	17.040	9.060
<b>145</b>	192.195	168.735	137.625	107.820	80.475	51.555	30.495	15.660	9.555
<b>150</b>	164.340	138.375	112.725	88.575	64.065	43.695	27.540	15.525	10.935
<b>155</b>	129.195	108.390	90.720	70.155	53.055	38.475	24.900	15.780	12.825
<b>160</b>	97.320	82.110	67.905	55.770	44.265	32.880	22.950	15.975	14.205
<b>165</b>	67.200	59.355	52.125	43.695	35.025	26.535	20.370	15.975	15.465
<b>170</b>	47.340	42.810	37.665	32.130	26.715	22.320	18.795	17.040	16.980
<b>175</b>	28.290	26.475	24.330	22.200	20.430	19.110	18.165	18.225	18.225
<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	45.63	N.A.	1.00
0-30	150.83	N.A.	3.30
0-40	348.55	N.A.	7.70
0-60	1047.9	N.A.	23.30
0-80	2011.08	N.A.	44.70
0-90	2508.35	N.A.	55.70
10-90	2502.04	N.A.	55.60
20-40	302.93	N.A.	6.70
20-50	604.80	N.A.	13.40
40-70	1165.00	N.A.	25.90
60-80	963.18	N.A.	21.40
70-80	497.52	N.A.	11.00
80-90	497.28	N.A.	11.00
90-110	900.88	N.A.	20.00
90-120	1270.13	N.A.	28.20
90-130	1564.73	N.A.	34.80
90-150	1904.68	N.A.	42.30
90-180	1994.38	N.A.	44.30
110-180	1093.5	N.A.	24.30
0-180	4502.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	6.31
10-20	39.32
20-30	105.20
30-40	197.72
40-50	301.88
50-60	397.47
60-70	465.66
70-80	497.52
80-90	497.28
90-100	472.08
100-110	428.80
110-120	369.25
120-130	294.60
130-140	210.39
140-150	129.56
150-160	64.88
160-170	21.87
170-180	2.95

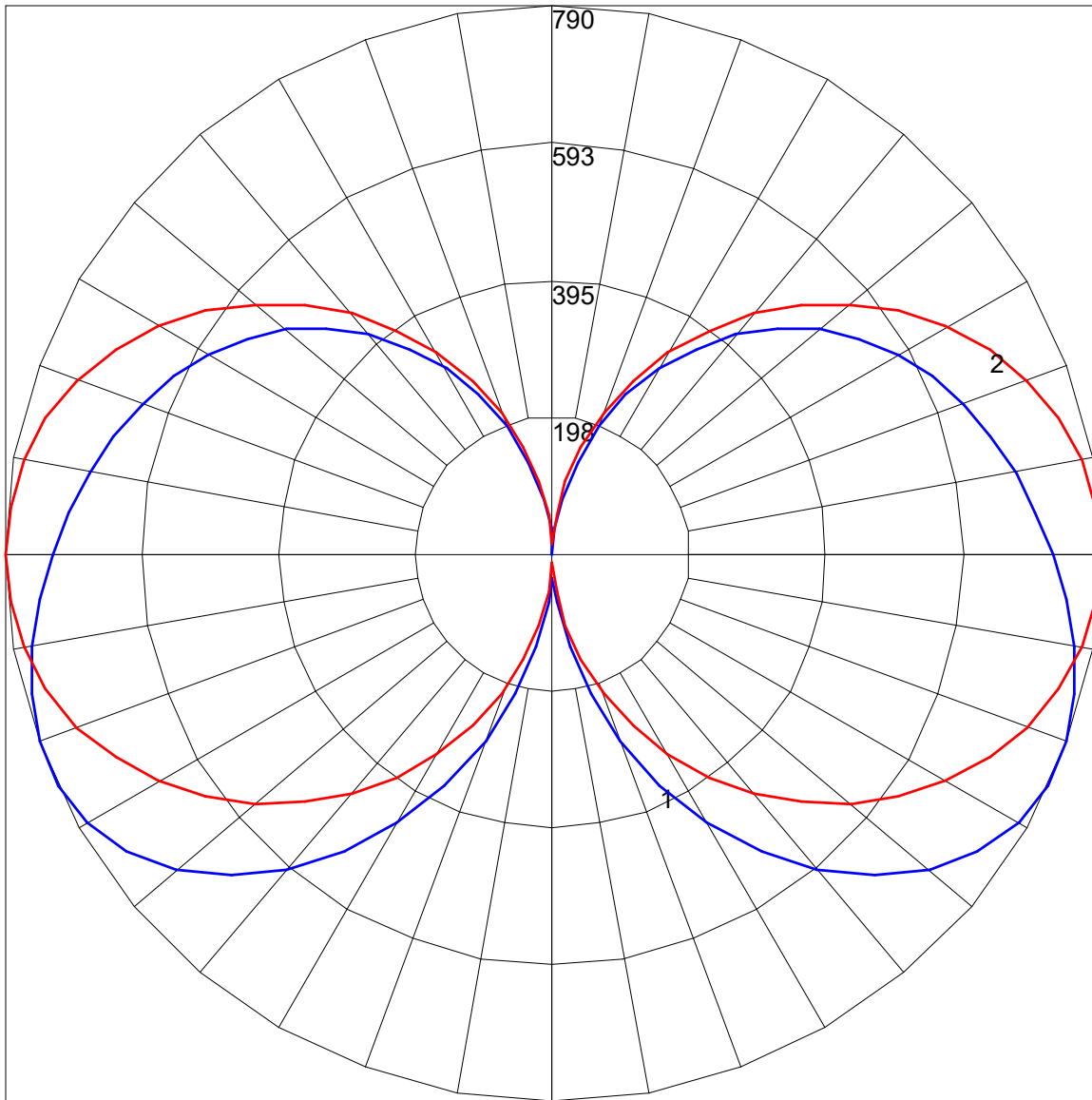
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	56
1	93	86	80	75	86	80	74	69	67	63	59	56	52	49	45	43	40	35
2	83	72	64	56	76	66	59	52	56	49	44	45	41	37	36	33	29	25
3	74	61	52	44	67	56	48	41	47	40	34	38	33	28	30	26	22	18
4	67	53	43	36	61	49	40	33	41	33	28	33	27	23	26	21	18	14
5	61	46	37	29	55	43	34	27	35	28	23	29	23	18	23	18	14	11
6	55	41	31	25	50	38	29	23	31	24	19	25	20	15	20	15	12	9
7	51	37	27	21	46	34	25	19	28	21	16	23	17	13	18	13	10	7
8	47	33	24	18	43	30	22	17	25	19	14	21	15	11	16	12	8	6
9	44	30	21	16	40	27	20	14	23	16	12	19	13	10	15	10	7	5
10	41	27	19	14	37	25	18	13	21	15	10	17	12	8	14	9	6	4

POLAR GRAPH



Maximum Candela = 790.005 Located At Horizontal Angle = 0, Vertical Angle = 65  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)