

**IES Report**

**ZipTwo® | 707 | Square 3554, Diffuse | 90 CRI | LO**

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	112	115	118	119
Total Lumens, 4' rail length (1219mm)	1656	1708	1743	1761
Lumens per foot (305mm)	414	427	436	440
Input Power (W), 4' rail length (1219mm)	14.9	14.9	14.9	14.9
Watts per foot (305mm)	3.8	3.8	3.8	3.8
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\_LO\_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-LO-359-J6-WH  
[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, zipper board,  
[MORE] square 3554, diffuse lens, low output  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1743
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	14.89
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	3680	3449	3740
55	3621	3337	3546
65	3471	3189	3346
75	3239	3008	3146
85	2985	2842	3146

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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>	207.900	207.900	207.900	207.900	207.900	207.900	207.900	207.900	207.900	207.900
<b>5</b>	212.245	212.245	212.115	211.930	211.635	211.320	210.945	210.525	210.040	209.560
<b>10</b>	226.535	226.430	226.095	225.485	224.585	223.475	222.195	220.665	218.950	217.065
<b>15</b>	240.490	240.305	239.695	238.690	237.200	235.380	233.200	230.665	227.815	224.815
<b>20</b>	253.695	253.400	252.480	251.030	248.875	246.235	243.155	239.380	235.275	230.810
<b>25</b>	266.140	265.660	264.425	262.455	259.560	255.980	251.680	246.695	241.205	235.400
<b>30</b>	277.460	276.890	275.320	272.700	269.035	264.550	259.080	252.750	245.750	238.440
<b>35</b>	287.265	286.575	284.585	281.420	276.870	271.275	264.800	257.070	248.600	239.780
<b>40</b>	295.020	294.225	291.940	288.210	282.865	276.265	268.575	259.605	249.650	239.445
<b>45</b>	300.050	299.125	296.530	292.230	286.195	278.695	269.975	259.920	248.665	237.140
<b>50</b>	301.515	300.550	297.720	293.155	286.450	278.235	268.700	257.635	245.480	232.740
<b>55</b>	299.045	298.080	295.145	290.260	283.325	274.480	264.485	252.665	239.695	226.160
<b>60</b>	292.335	291.415	288.375	283.370	276.345	267.355	257.005	244.830	231.355	217.335
<b>65</b>	281.525	280.540	277.645	272.700	265.785	256.880	246.590	234.310	220.665	206.440
<b>70</b>	267.020	266.120	263.315	258.700	252.100	243.425	233.325	221.275	207.840	193.695
<b>75</b>	250.005	249.145	246.570	242.210	235.925	227.730	218.050	206.520	193.465	179.700
<b>80</b>	231.185	230.370	228.045	224.020	218.150	210.525	201.450	190.530	178.125	165.385
<b>85</b>	211.700	211.025	208.745	205.035	199.585	192.670	184.120	173.850	163.185	150.360
<b>90</b>	193.720	193.070	190.995	187.580	182.715	176.155	168.255	159.330	148.535	136.380
<b>95</b>	181.355	180.765	179.005	175.905	171.440	165.930	158.765	149.835	139.545	128.355
<b>100</b>	172.300	171.800	170.225	167.460	163.585	158.135	151.405	143.255	133.470	123.010
<b>105</b>	164.880	164.380	162.810	160.085	156.100	150.945	144.470	136.780	128.000	117.985
<b>110</b>	156.375	155.870	154.405	151.785	148.095	143.090	137.055	129.825	121.400	112.095
<b>115</b>	147.700	147.215	145.790	143.380	139.860	135.165	129.485	122.550	114.670	105.765
<b>120</b>	138.730	138.290	136.990	134.705	131.310	126.845	121.505	114.985	107.440	99.250
<b>125</b>	129.425	129.005	127.750	125.570	122.340	118.170	113.185	107.125	100.045	92.375
<b>130</b>	119.615	119.175	117.960	115.930	112.910	109.095	104.445	98.745	92.185	83.930
<b>135</b>	109.180	108.825	107.715	105.805	102.980	99.460	95.055	88.980	81.225	73.495
<b>140</b>	98.285	97.885	96.860	95.055	92.520	89.145	83.510	76.575	69.890	63.330
<b>145</b>	86.715	86.380	85.395	83.780	81.455	76.470	70.390	64.755	59.245	53.940
<b>150</b>	74.645	74.310	73.470	72.045	68.085	62.700	57.985	53.605	49.835	46.355
<b>155</b>	62.200	61.945	61.170	58.760	53.650	49.730	46.315	44.115	41.555	38.415
<b>160</b>	49.290	49.080	48.135	43.400	39.985	37.365	36.130	34.535	32.125	28.775
<b>165</b>	35.330	35.100	31.645	28.980	27.180	26.910	26.050	24.560	22.110	20.225
<b>170</b>	21.835	19.845	17.270	16.285	16.785	16.955	16.390	15.590	14.775	13.745
<b>175</b>	10.770	8.405	8.445	9.325	9.680	9.555	9.390	9.200	8.865	8.510
<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>	207.900	207.900	207.900	207.900	207.900	207.900	207.900	207.900	207.900
<b>5</b>	209.100	208.660	208.220	207.800	207.505	207.235	207.045	206.985	207.045
<b>10</b>	215.030	212.955	210.840	208.785	207.130	205.810	204.720	204.195	204.155
<b>15</b>	221.400	217.815	214.215	210.295	206.625	203.230	200.820	199.315	198.875
<b>20</b>	226.010	221.025	215.930	210.545	205.160	199.795	195.225	192.525	191.705
<b>25</b>	228.965	222.450	215.805	208.850	201.955	194.935	188.395	184.055	182.655
<b>30</b>	230.495	222.260	214.045	205.410	197.090	188.560	180.555	174.250	172.050
<b>35</b>	230.140	220.415	210.610	200.425	190.700	180.705	171.420	163.225	160.270
<b>40</b>	228.440	217.000	205.725	194.030	182.760	171.755	161.235	151.385	147.320
<b>45</b>	224.585	211.905	199.060	186.215	173.665	161.570	149.835	139.000	133.615
<b>50</b>	219.010	204.950	191.140	176.975	163.605	150.400	137.680	125.965	119.240
<b>55</b>	211.510	196.695	181.565	166.705	152.415	138.350	124.920	112.535	104.655
<b>60</b>	202.100	186.635	170.940	155.705	140.425	125.675	111.695	98.765	89.735

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	190.700	175.215	159.330	143.360	127.685	112.470	98.035	84.685	74.980
<b>70</b>	177.960	162.575	146.440	130.325	114.650	98.995	84.120	70.750	60.230
<b>75</b>	164.420	149.060	133.070	116.955	100.965	85.795	70.725	57.105	45.980
<b>80</b>	150.655	135.395	119.930	104.215	88.370	72.780	58.050	44.405	32.610
<b>85</b>	136.510	121.820	106.560	90.510	75.295	59.850	45.330	31.915	20.075
<b>90</b>	122.865	108.635	93.800	78.145	63.055	48.050	33.465	20.035	8.255
<b>95</b>	115.490	102.350	88.265	74.060	59.475	45.075	31.055	18.020	6.285
<b>100</b>	111.445	98.660	85.290	71.085	57.315	43.255	30.070	16.830	6.160
<b>105</b>	106.730	94.740	82.065	68.465	55.260	41.995	28.415	15.655	5.950
<b>110</b>	101.530	90.195	78.210	65.340	52.810	40.025	27.140	14.420	6.120
<b>115</b>	95.790	85.335	73.850	61.925	50.000	38.035	25.505	13.015	6.035
<b>120</b>	90.005	79.740	69.365	58.445	47.045	35.540	23.385	11.335	5.910
<b>125</b>	83.740	73.955	63.685	52.830	42.375	31.310	20.200	9.975	5.870
<b>130</b>	74.895	65.445	56.225	46.690	37.195	27.055	17.185	8.635	5.740
<b>135</b>	65.405	57.400	49.245	40.675	32.190	23.075	14.395	7.710	5.575
<b>140</b>	56.475	49.685	42.770	34.915	27.095	19.405	12.090	7.020	5.405
<b>145</b>	48.910	43.590	36.150	28.940	22.485	15.695	10.290	6.370	5.280
<b>150</b>	42.120	35.980	29.840	24.185	18.485	13.540	9.390	6.180	5.365
<b>155</b>	33.405	28.605	24.435	19.530	15.425	11.820	8.465	6.120	5.405
<b>160</b>	25.590	22.045	18.630	15.530	12.720	9.955	7.420	5.845	5.280
<b>165</b>	18.255	16.260	14.315	12.090	10.165	8.130	6.560	5.575	5.155
<b>170</b>	12.635	11.610	10.455	9.220	7.815	6.750	5.950	5.470	5.240
<b>175</b>	8.025	7.525	6.935	6.415	6.035	5.680	5.430	5.280	5.240
<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	83.27	N.A.	4.80
0-30	189.96	N.A.	10.90
0-40	336.37	N.A.	19.30
0-60	707.95	N.A.	40.60
0-80	1079.69	N.A.	61.90
0-90	1229.81	N.A.	70.50
10-90	1209.59	N.A.	69.40
20-40	253.11	N.A.	14.50
20-50	430.38	N.A.	24.70
40-70	565.73	N.A.	32.50
60-80	371.74	N.A.	21.30
70-80	177.58	N.A.	10.20
80-90	150.12	N.A.	8.60
90-110	238.14	N.A.	13.70
90-120	332.10	N.A.	19.00
90-130	405.85	N.A.	23.30
90-150	490.34	N.A.	28.10
90-180	513.53	N.A.	29.50
110-180	275.39	N.A.	15.80
0-180	1743.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	20.22
10-20	63.05
20-30	106.70
30-40	146.41
40-50	177.27
50-60	194.31
60-70	194.15
70-80	177.58
80-90	150.12
90-100	126.57
100-110	111.56
110-120	93.96
120-130	73.75
130-140	52.18
140-150	32.31
150-160	16.55
160-170	5.82
170-180	0.83

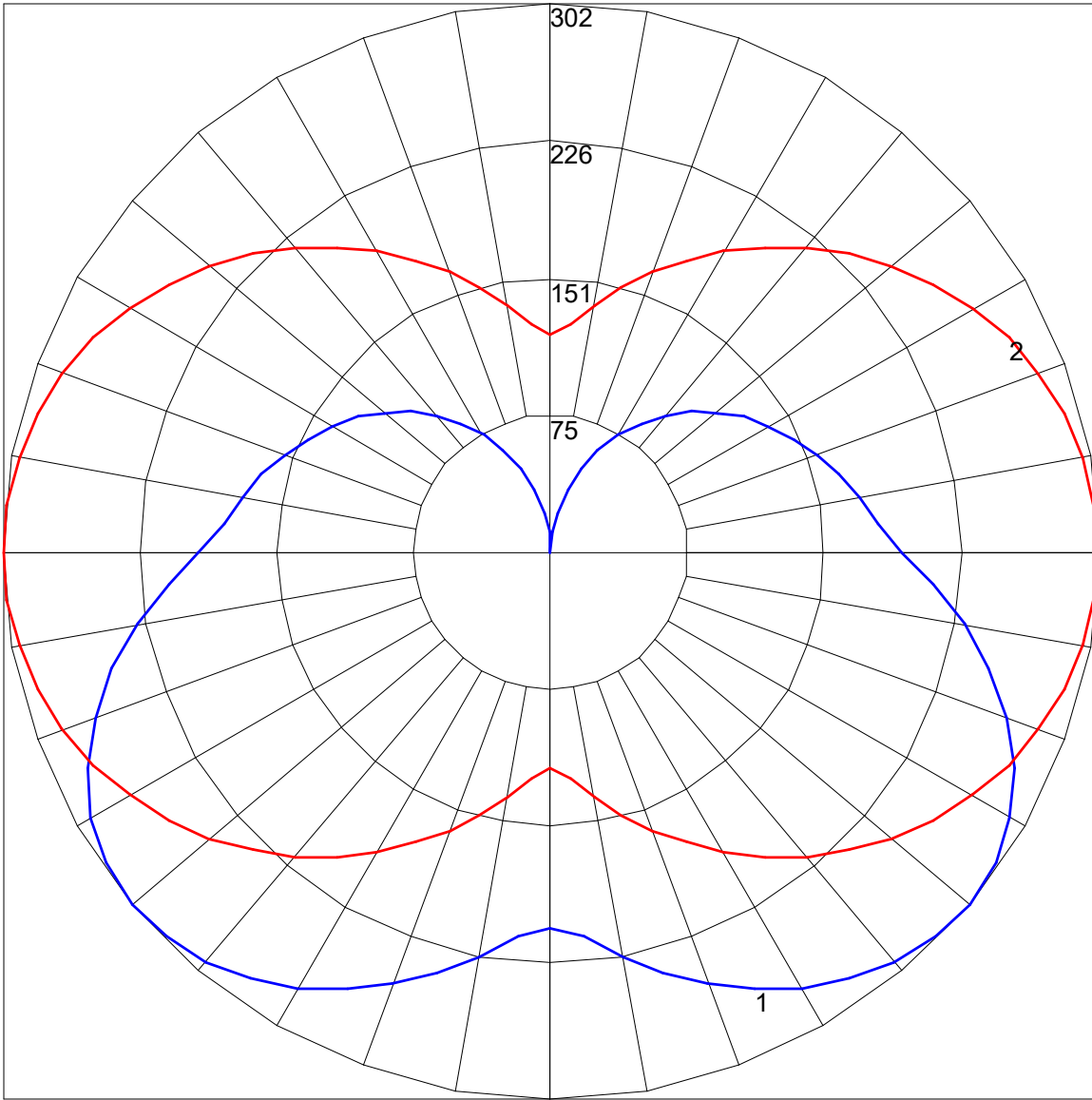
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 301.515 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.)