

## IES Report

# ZipTwo® | 707 | Square 3519, Side Diffuse | 80 CRI | SO

707-Z2-4-48-XX-XX-X-0-Z-SO-35-F9-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	69	71	73	73
Total Lumens, 4' rail length (1219mm)	1789	1846	1883	1883
Lumens per foot (305mm)	447	461	471	471
Input Power (W), 4' rail length (1219mm)	26.1	26.1	26.1	26.1
Watts per foot (305mm)	6.6	6.6	6.6	6.6
CRI	82	82	82	82

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\_SO\_35\_F9\_WH.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] L082011212 (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-SO-35-F9-WH  
[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board,  
[MORE] square 3519, side diffuse lens, standard output  
[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1883
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	72
Total Luminaire Watts	26.11
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	0.05 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4275	2927	177
55	5980	4080	187
65	8150	5643	186
75	10931	7914	238
85	15127	11986	384

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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>	8.433	8.433	8.433	8.433	8.433	8.433	8.433	8.433	8.433	8.433
<b>5</b>	17.412	17.412	17.307	17.017	16.681	16.240	15.753	15.068	14.396	13.711
<b>10</b>	35.194	35.148	34.812	34.278	33.350	32.283	30.972	29.464	27.759	25.914
<b>15</b>	54.450	54.207	53.627	52.606	51.144	49.300	47.166	44.579	41.714	38.651
<b>20</b>	75.354	75.064	74.147	72.686	70.493	67.779	64.566	60.819	56.538	52.072
<b>25</b>	98.020	97.626	96.454	94.320	91.350	87.661	83.288	78.080	72.349	66.317
<b>30</b>	122.229	121.638	119.944	117.264	113.425	108.564	102.927	96.210	88.879	81.188
<b>35</b>	147.796	147.123	144.977	141.578	136.613	130.639	123.633	115.327	106.186	96.698
<b>40</b>	174.441	173.513	170.845	166.611	160.590	153.248	144.594	134.618	123.633	112.265
<b>45</b>	201.863	200.692	197.583	192.386	185.182	176.239	166.124	154.315	141.288	127.867
<b>50</b>	229.576	228.311	224.611	218.440	209.937	199.532	187.711	173.861	158.932	143.469
<b>55</b>	256.314	255.003	250.525	243.484	233.612	221.699	208.081	192.386	175.415	158.154
<b>60</b>	281.207	279.548	274.549	266.672	255.536	242.405	227.198	209.740	191.214	171.715
<b>65</b>	303.178	301.380	295.893	287.286	275.372	260.838	244.018	225.585	205.366	184.312
<b>70</b>	320.102	318.304	312.562	303.479	291.218	275.616	257.775	237.893	216.885	194.613
<b>75</b>	332.352	330.461	324.580	315.439	302.690	286.648	268.563	247.811	225.585	202.350
<b>80</b>	339.845	337.989	332.352	323.014	310.277	294.234	275.906	254.852	231.861	208.382
<b>85</b>	343.151	341.342	335.762	326.714	314.070	298.178	279.943	258.842	235.747	212.118
<b>90</b>	343.534	341.782	336.342	327.584	314.708	299.245	281.207	260.258	237.359	213.672
<b>95</b>	342.467	340.762	335.368	326.517	314.174	298.758	281.010	260.200	237.359	213.974
<b>100</b>	339.544	337.746	332.398	323.652	311.251	296.276	278.678	258.216	236.037	212.512
<b>105</b>	333.906	332.108	326.807	318.060	306.194	291.079	273.864	254.365	232.441	209.786
<b>110</b>	325.252	323.501	318.304	309.940	298.317	283.782	267.113	247.753	227.093	205.320
<b>115</b>	313.096	311.356	306.391	298.468	287.425	273.574	257.624	239.099	219.078	198.163
<b>120</b>	297.737	296.032	291.462	283.933	273.667	260.443	245.468	228.068	208.962	189.219
<b>125</b>	279.258	277.855	273.528	266.719	257.044	244.934	231.037	214.994	197.246	178.814
<b>130</b>	258.158	257.091	253.100	246.883	237.986	227.198	214.554	199.775	181.981	161.460
<b>135</b>	235.120	233.995	230.596	224.854	217.036	207.060	195.390	177.550	158.885	141.532
<b>140</b>	209.542	208.522	205.506	200.448	193.302	184.162	168.513	152.610	137.251	122.368
<b>145</b>	182.897	182.120	179.591	175.415	169.047	154.999	141.624	128.737	116.638	105.792
<b>150</b>	156.356	155.718	153.491	149.594	138.075	126.695	116.684	107.254	99.667	91.408
<b>155</b>	129.421	128.888	126.892	119.352	108.564	100.201	92.904	87.708	80.759	73.219
<b>160</b>	99.180	98.646	95.143	84.889	77.882	72.825	70.447	67.535	62.617	55.668
<b>165</b>	70.400	69.623	61.840	57.664	54.404	53.963	51.678	47.885	43.999	41.087
<b>170</b>	44.637	39.626	36.030	34.812	36.702	37.097	36.366	35.542	34.034	32.376
<b>175</b>	25.764	21.634	22.608	24.940	25.961	25.961	25.671	25.427	24.940	24.209
<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>	8.433	8.433	8.433	8.433	8.433	8.433	8.433	8.433	8.433
<b>5</b>	12.841	11.960	11.182	10.359	9.628	8.944	8.561	8.213	8.166
<b>10</b>	23.780	21.541	19.302	16.866	14.488	12.006	10.011	8.654	8.074
<b>15</b>	35.345	31.796	28.107	24.256	20.323	16.089	12.250	9.187	7.969
<b>20</b>	47.305	42.201	37.097	31.656	26.251	20.520	15.068	10.069	7.876
<b>25</b>	59.752	52.989	46.087	39.092	32.039	24.940	17.794	11.032	7.586
<b>30</b>	72.883	64.229	55.471	46.620	37.828	29.220	20.567	12.250	7.192
<b>35</b>	86.397	75.945	65.192	54.404	43.860	33.454	23.386	13.514	7.099
<b>40</b>	99.957	87.371	74.774	62.083	49.741	37.480	25.868	14.686	6.612
<b>45</b>	113.471	98.983	84.552	69.670	55.576	41.226	28.292	15.556	6.125
<b>50</b>	126.985	110.409	94.030	77.152	61.260	45.217	30.578	16.681	5.835
<b>55</b>	139.826	121.011	102.730	84.065	66.120	48.720	32.480	17.551	5.255
<b>60</b>	151.693	131.312	110.896	90.190	70.888	52.026	34.417	18.374	4.663

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	162.284	140.267	118.332	95.967	75.261	54.938	36.076	18.722	3.886
<b>70</b>	171.088	147.796	124.561	100.885	78.961	57.803	37.584	19.152	3.793
<b>75</b>	177.898	154.025	129.328	104.968	82.024	60.239	38.698	19.790	3.109
<b>80</b>	182.955	158.247	133.307	108.518	84.796	61.840	39.916	20.370	2.436
<b>85</b>	186.795	161.368	135.940	110.699	86.107	62.617	40.496	20.370	1.844
<b>90</b>	188.732	162.818	137.147	111.673	86.884	63.104	40.739	20.323	1.357
<b>95</b>	188.686	163.258	138.028	112.207	87.661	63.058	41.087	20.520	1.462
<b>100</b>	188.059	162.818	137.541	111.476	87.220	63.208	40.844	19.256	1.949
<b>105</b>	185.380	160.776	135.940	110.455	86.536	62.814	39.138	17.992	2.819
<b>110</b>	181.204	157.424	133.214	108.472	84.982	60.923	38.558	16.576	3.700
<b>115</b>	175.172	152.656	129.514	105.212	81.722	59.218	37.190	15.219	4.478
<b>120</b>	167.539	146.195	123.540	100.781	78.230	57.269	34.081	14.152	5.545
<b>125</b>	158.352	135.256	113.286	91.640	71.178	50.321	29.998	13.317	6.519
<b>130</b>	140.406	120.721	100.781	82.163	63.742	44.242	26.158	12.841	7.296
<b>135</b>	123.981	106.326	90.086	73.022	54.984	38.605	22.759	12.598	8.074
<b>140</b>	107.984	93.983	79.205	61.944	47.015	32.434	20.764	12.250	8.746
<b>145</b>	95.294	82.511	65.540	51.724	39.626	27.028	19.302	12.006	9.338
<b>150</b>	80.411	66.364	55.030	44.486	33.547	26.204	19.349	13.131	10.985
<b>155</b>	63.011	54.555	45.948	36.946	31.018	25.091	18.966	14.442	12.841
<b>160</b>	49.056	42.201	37.097	32.863	28.443	23.339	18.525	15.358	14.291
<b>165</b>	38.025	35.299	32.132	28.930	25.276	21.251	18.038	16.194	15.556
<b>170</b>	30.972	29.313	27.028	24.557	21.831	19.639	18.038	17.261	16.924
<b>175</b>	23.235	22.168	21.054	20.080	19.349	18.722	18.328	18.084	17.992
<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	12.03	N.A.	0.60
0-30	40.79	N.A.	2.20
0-40	97.52	N.A.	5.20
0-60	324.05	N.A.	17.20
0-80	698.06	N.A.	37.10
0-90	914.54	N.A.	48.60
10-90	912.95	N.A.	48.50
20-40	85.49	N.A.	4.50
20-50	178.39	N.A.	9.50
40-70	398.98	N.A.	21.20
60-80	374.01	N.A.	19.90
70-80	201.57	N.A.	10.70
80-90	216.48	N.A.	11.50
90-110	423.51	N.A.	22.50
90-120	605.42	N.A.	32.10
90-130	752.02	N.A.	39.90
90-150	921.40	N.A.	48.90
90-180	968.88	N.A.	51.40
110-180	545.37	N.A.	29.00
0-180	1883.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1.59
10-20	10.44
20-30	28.76
30-40	56.73
40-50	92.90
50-60	133.63
60-70	172.44
70-80	201.57
80-90	216.48
90-100	217.50
100-110	206.01
110-120	181.91
120-130	146.60
130-140	104.63
140-150	64.74
150-160	33.19
160-170	12.14
170-180	2.15

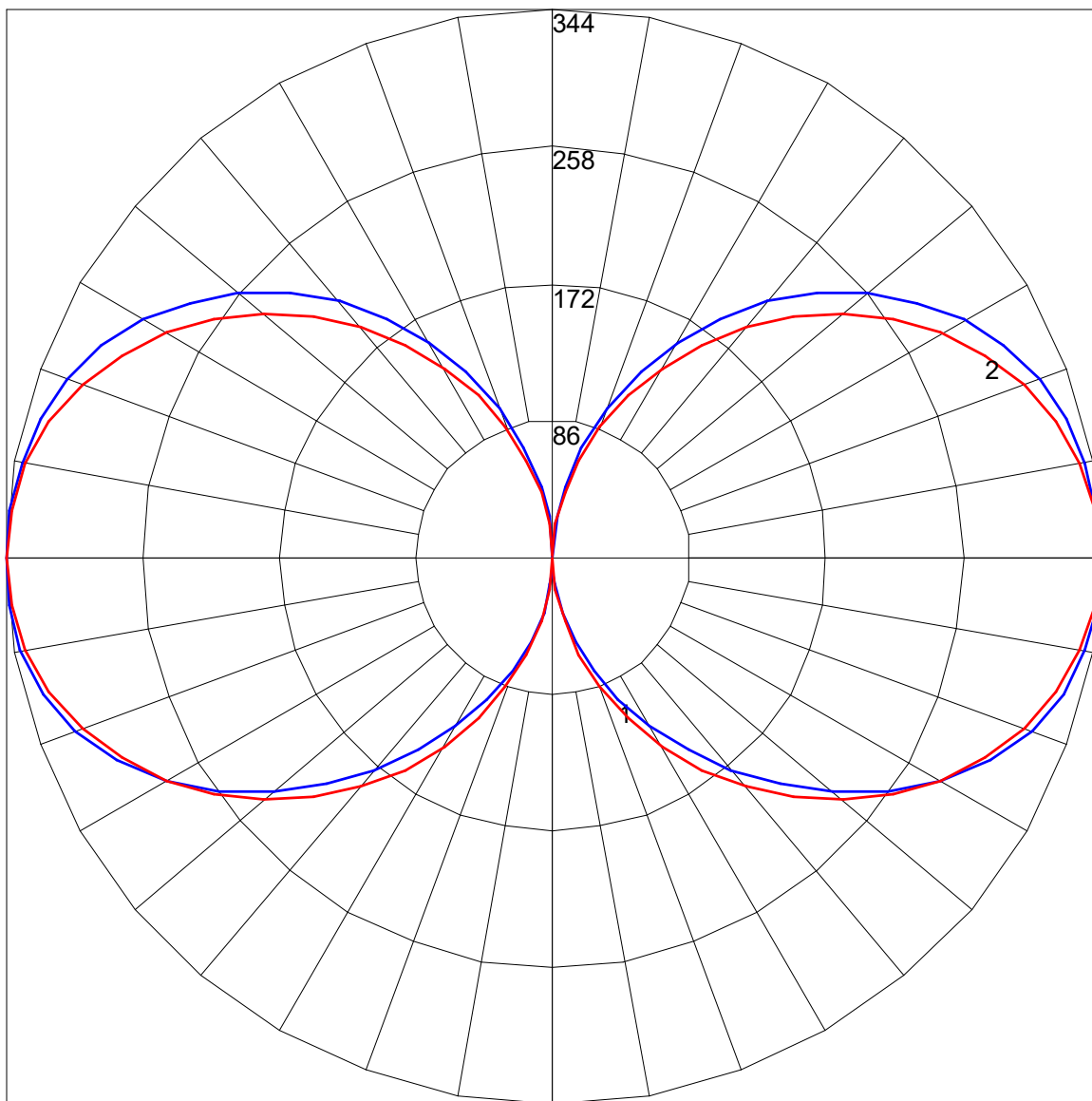
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	92	85	79	73	83	77	72	67	63	59	55	51	48	45	39	37	34	29
2	81	71	62	55	73	64	57	50	52	46	41	41	37	33	31	28	25	19
3	73	60	51	43	65	55	46	39	44	38	32	35	29	25	26	22	18	14
4	65	52	42	35	59	47	39	32	38	31	26	30	24	20	22	18	14	10
5	60	46	36	29	54	41	33	26	33	27	21	26	21	16	19	15	12	8
6	54	40	31	24	49	37	28	22	30	23	18	23	18	14	17	13	10	6
7	50	36	27	20	45	33	24	19	26	20	15	21	15	11	15	11	8	5
8	46	32	24	18	42	29	22	16	24	17	13	19	14	10	14	10	7	4
9	43	29	21	15	39	27	19	14	22	16	11	17	12	8	13	9	6	3
10	40	27	19	13	36	24	17	12	20	14	10	16	11	7	12	8	5	3

POLAR GRAPH



Maximum Candela = 343.534 Located At Horizontal Angle = 0, Vertical Angle = 90  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (90) (Through Max. Cd.)