

IES Report

ZipTwo® | 707 | Square 3519, Side Diffuse | 80 CRI | LO

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	61	62	64	64
Total Lumens, 4' rail length (1219mm)	895	923	942	942
Lumens per foot (305mm)	224	231	235	235
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	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_LO_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-LO-35-F9-WH
[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board,
[MORE] square 3519, side 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	942
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	14.89
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	2137	1464	89
55	2990	2040	93
65	4075	2822	93
75	5466	3957	119
85	7563	5993	192

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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>
0	4.217	4.217	4.217	4.217	4.217	4.217	4.217	4.217	4.217	4.217
5	8.706	8.706	8.654	8.509	8.340	8.120	7.876	7.534	7.198	6.856
10	17.597	17.574	17.406	17.139	16.675	16.141	15.486	14.732	13.879	12.957
15	27.225	27.103	26.813	26.303	25.572	24.650	23.583	22.289	20.857	19.326
20	37.677	37.532	37.074	36.343	35.247	33.889	32.283	30.409	28.269	26.036
25	49.010	48.813	48.227	47.160	45.675	43.831	41.644	39.040	36.175	33.159
30	61.115	60.819	59.972	58.632	56.712	54.282	51.463	48.105	44.440	40.594
35	73.898	73.561	72.488	70.789	68.307	65.320	61.816	57.664	53.093	48.349
40	87.220	86.756	85.422	83.305	80.295	76.624	72.297	67.309	61.816	56.132
45	100.932	100.346	98.791	96.193	92.591	88.119	83.062	77.157	70.644	63.933
50	114.788	114.156	112.305	109.220	104.968	99.766	93.856	86.930	79.466	71.734
55	128.157	127.501	125.263	121.742	116.806	110.850	104.040	96.193	87.708	79.077
60	140.604	139.774	137.274	133.336	127.768	121.203	113.599	104.870	95.607	85.857
65	151.589	150.690	147.946	143.643	137.686	130.419	122.009	112.793	102.683	92.156
70	160.051	159.152	156.281	151.740	145.609	137.808	128.888	118.946	108.443	97.307
75	166.176	165.230	162.290	157.719	151.345	143.324	134.282	123.905	112.793	101.175
80	169.923	168.995	166.176	161.507	155.138	147.117	137.953	127.426	115.930	104.191
85	171.576	170.671	167.881	163.357	157.035	149.089	139.971	129.421	117.873	106.059
90	171.767	170.891	168.171	163.792	157.354	149.623	140.604	130.129	118.680	106.836
95	171.233	170.381	167.684	163.258	157.087	149.379	140.505	130.100	118.680	106.987
100	169.772	168.873	166.199	161.826	155.626	148.138	139.339	129.108	118.018	106.256
105	166.953	166.054	163.403	159.030	153.097	145.539	136.932	127.182	116.220	104.893
110	162.626	161.750	159.152	154.970	149.159	141.891	133.557	123.876	113.547	102.660
115	156.548	155.678	153.195	149.234	143.712	136.787	128.812	119.550	109.539	99.081
120	148.869	148.016	145.731	141.967	136.834	130.222	122.734	114.034	104.481	94.610
125	139.629	138.927	136.764	133.359	128.522	122.467	115.519	107.497	98.623	89.407
130	129.079	128.545	126.550	123.441	118.993	113.599	107.277	99.888	90.990	80.730
135	117.560	116.998	115.298	112.427	108.518	103.530	97.695	88.775	79.443	70.766
140	104.771	104.261	102.753	100.224	96.651	92.081	84.257	76.305	68.626	61.184
145	91.449	91.060	89.796	87.708	84.523	77.500	70.812	64.368	58.319	52.896
150	78.178	77.859	76.746	74.797	69.037	63.348	58.342	53.627	49.834	45.704
155	64.711	64.444	63.446	59.676	54.282	50.100	46.452	43.854	40.380	36.610
160	49.590	49.323	47.572	42.444	38.941	36.412	35.223	33.768	31.308	27.834
165	35.200	34.812	30.920	28.832	27.202	26.982	25.839	23.942	21.999	20.544
170	22.318	19.813	18.015	17.406	18.351	18.548	18.183	17.771	17.017	16.188
175	12.882	10.817	11.304	12.470	12.980	12.980	12.835	12.714	12.470	12.105
180	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>
0	4.217	4.217	4.217	4.217	4.217	4.217	4.217	4.217	4.217
5	6.421	5.980	5.591	5.179	4.814	4.472	4.280	4.106	4.083
10	11.890	10.771	9.651	8.433	7.244	6.003	5.005	4.327	4.037
15	17.673	15.898	14.053	12.128	10.162	8.045	6.125	4.594	3.985
20	23.652	21.100	18.548	15.828	13.125	10.260	7.534	5.034	3.938
25	29.876	26.494	23.043	19.546	16.020	12.470	8.897	5.516	3.793
30	36.441	32.115	27.736	23.310	18.914	14.610	10.283	6.125	3.596
35	43.198	37.973	32.596	27.202	21.930	16.727	11.693	6.757	3.550
40	49.979	43.686	37.387	31.042	24.870	18.740	12.934	7.343	3.306
45	56.736	49.491	42.276	34.835	27.788	20.613	14.146	7.778	3.062
50	63.493	55.204	47.015	38.576	30.630	22.608	15.289	8.340	2.917
55	69.913	60.506	51.365	42.033	33.060	24.360	16.240	8.775	2.627
60	75.847	65.656	55.448	45.095	35.444	26.013	17.209	9.187	2.332

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CANDELA TABULATION - (Cont.)

65	81.142	70.134	59.166	47.983	37.630	27.469	18.038	9.361	1.943
70	85.544	73.898	62.280	50.443	39.481	28.901	18.792	9.576	1.897
75	88.949	77.012	64.664	52.484	41.012	30.119	19.349	9.895	1.554
80	91.478	79.124	66.654	54.259	42.398	30.920	19.958	10.185	1.218
85	93.397	80.684	67.970	55.349	43.053	31.308	20.248	10.185	0.922
90	94.366	81.409	68.573	55.837	43.442	31.552	20.370	10.162	0.679
95	94.343	81.629	69.014	56.103	43.831	31.529	20.544	10.260	0.731
100	94.030	81.409	68.771	55.738	43.610	31.604	20.422	9.628	0.974
105	92.690	80.388	67.970	55.228	43.268	31.407	19.569	8.996	1.409
110	90.602	78.712	66.607	54.236	42.491	30.462	19.279	8.288	1.850
115	87.586	76.328	64.757	52.606	40.861	29.609	18.595	7.610	2.239
120	83.769	73.097	61.770	50.390	39.115	28.635	17.040	7.076	2.772
125	79.176	67.628	56.643	45.820	35.589	25.160	14.999	6.658	3.260
130	70.203	60.361	50.390	41.081	31.871	22.121	13.079	6.421	3.648
135	61.990	53.163	45.043	36.511	27.492	19.302	11.380	6.299	4.037
140	53.992	46.992	39.602	30.972	23.507	16.217	10.382	6.125	4.373
145	47.647	41.255	32.770	25.862	19.813	13.514	9.651	6.003	4.669
150	40.206	33.182	27.515	22.243	16.774	13.102	9.674	6.566	5.493
155	31.506	27.277	22.974	18.473	15.509	12.545	9.483	7.221	6.421
160	24.528	21.100	18.548	16.431	14.222	11.670	9.263	7.679	7.146
165	19.012	17.649	16.066	14.465	12.638	10.626	9.019	8.097	7.778
170	15.486	14.657	13.514	12.279	10.916	9.819	9.019	8.630	8.462
175	11.617	11.084	10.527	10.040	9.674	9.361	9.164	9.042	8.996
180	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	6.02	N.A.	0.60
0-30	20.40	N.A.	2.20
0-40	48.76	N.A.	5.20
0-60	162.03	N.A.	17.20
0-80	349.03	N.A.	37.10
0-90	457.27	N.A.	48.60
10-90	456.47	N.A.	48.50
20-40	42.74	N.A.	4.50
20-50	89.19	N.A.	9.50
40-70	199.49	N.A.	21.20
60-80	187.00	N.A.	19.90
70-80	100.78	N.A.	10.70
80-90	108.24	N.A.	11.50
90-110	211.76	N.A.	22.50
90-120	302.71	N.A.	32.10
90-130	376.01	N.A.	39.90
90-150	460.70	N.A.	48.90
90-180	484.44	N.A.	51.40
110-180	272.68	N.A.	29.00
0-180	941.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.80
10-20	5.22
20-30	14.38
30-40	28.36
40-50	46.45
50-60	66.82
60-70	86.22
70-80	100.78
80-90	108.24
90-100	108.75
100-110	103.00
110-120	90.96
120-130	73.30
130-140	52.32
140-150	32.37
150-160	16.59
160-170	6.07
170-180	1.07

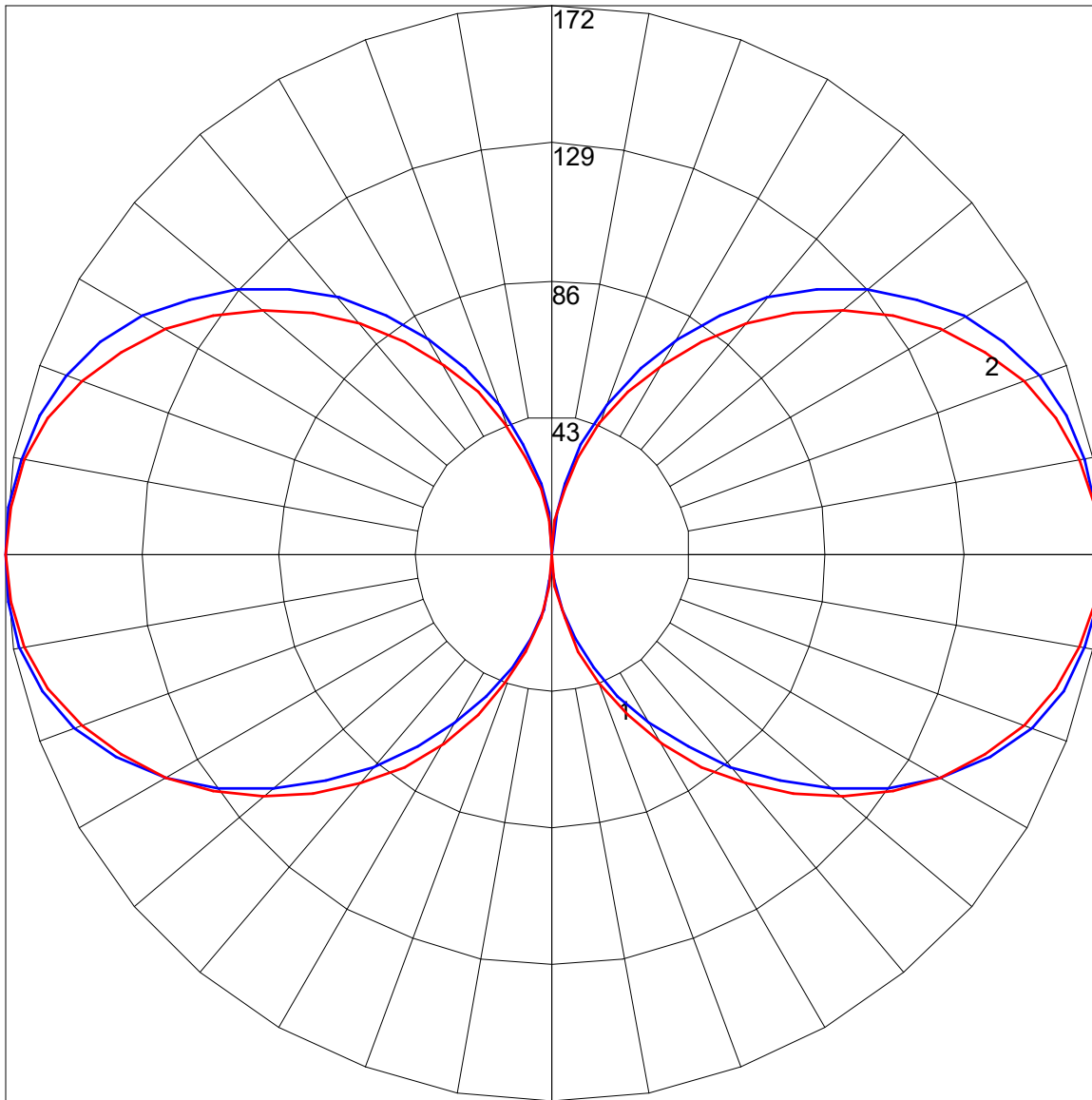
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	91	85	78	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	72	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	26	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	9	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	15	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 = 171.767 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.)