

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	68	71	72	72
Total Lumens, 4' rail length (1219mm)	2684	2769	2825	2825
Lumens per foot (305mm)	671	692	706	706
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	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_HO_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-HO-35-F9-WH
[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board,
[MORE] square 3519, side 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	2825
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	71
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	0.05 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6412	4391	266
55	8970	6120	280
65	12226	8465	278
75	16397	11871	357
85	22690	17978	576

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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	12.650	12.650	12.650	12.650	12.650	12.650	12.650	12.650	12.650	12.650
5	26.117	26.117	25.961	25.526	25.021	24.360	23.629	22.603	21.593	20.567
10	52.792	52.722	52.217	51.417	50.025	48.424	46.458	44.196	41.638	38.872
15	81.676	81.310	80.440	78.909	76.717	73.950	70.748	66.868	62.570	57.977
20	113.030	112.595	111.221	109.028	105.740	101.668	96.848	91.228	84.808	78.109
25	147.030	146.438	144.681	141.479	137.025	131.492	124.932	117.119	108.524	99.476
30	183.344	182.456	179.916	175.897	170.137	162.847	154.390	144.316	133.319	121.783
35	221.693	220.684	217.465	212.367	204.920	195.959	185.449	172.991	159.280	145.046
40	261.661	260.269	256.267	249.916	240.886	229.871	216.891	201.927	185.449	168.397
45	302.795	301.037	296.374	288.579	277.774	264.358	249.185	231.472	211.932	191.800
50	344.363	342.467	336.916	327.659	314.905	299.297	281.567	260.791	238.397	215.203
55	384.470	382.504	375.788	365.226	350.419	332.549	312.121	288.579	263.123	237.232
60	421.811	419.323	411.823	400.009	383.305	363.608	340.796	314.609	286.822	257.572
65	454.766	452.069	443.839	430.928	413.059	391.256	366.026	338.378	308.050	276.469
70	480.153	477.456	468.843	455.219	436.827	413.424	386.663	356.839	325.328	291.920
75	498.527	495.691	486.869	473.158	454.036	429.971	402.845	371.716	338.378	303.526
80	509.768	506.984	498.527	484.520	465.415	441.351	413.859	382.278	347.791	312.574
85	514.727	512.012	503.643	490.071	471.105	447.267	419.914	388.264	353.620	318.176
90	515.301	512.674	504.513	491.376	472.062	448.868	421.811	390.386	356.039	320.508
95	513.700	511.142	503.051	489.775	471.262	448.137	421.515	390.299	356.039	320.960
100	509.315	506.618	498.597	485.477	466.877	444.413	418.018	387.324	354.055	318.768
105	500.859	498.162	490.210	477.091	459.290	436.618	410.797	381.547	348.661	314.679
110	487.879	485.251	477.456	464.911	447.476	425.674	400.670	371.629	340.640	307.980
115	469.643	467.033	459.586	447.702	431.137	410.362	386.437	358.649	328.616	297.244
120	446.606	444.048	437.192	425.900	410.501	390.665	368.201	342.101	313.444	283.829
125	418.888	416.782	410.292	400.078	385.567	367.401	346.556	322.492	295.870	268.221
130	387.237	385.636	379.651	370.324	356.978	340.796	321.830	299.663	272.971	242.191
135	352.681	350.993	345.895	337.282	325.554	310.590	293.086	266.324	238.328	212.297
140	314.314	312.782	308.258	300.672	289.954	276.242	252.770	228.914	205.877	183.553
145	274.346	273.180	269.387	263.123	253.570	232.499	212.437	193.105	174.957	158.688
150	234.535	233.578	230.237	224.390	207.112	190.043	175.027	160.880	149.501	137.112
155	194.132	193.331	190.339	179.029	162.847	150.301	139.357	131.561	121.139	109.829
160	148.770	147.970	142.715	127.333	116.824	109.237	105.670	101.303	93.925	83.503
165	105.601	104.435	92.759	86.495	81.606	80.945	77.517	71.827	65.998	61.631
170	66.955	59.438	54.044	52.217	55.054	55.645	54.549	53.314	51.052	48.563
175	38.645	32.451	33.913	37.410	38.941	38.941	38.506	38.141	37.410	36.314
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	12.650	12.650	12.650	12.650	12.650	12.650	12.650	12.650	12.650
5	19.262	17.939	16.774	15.538	14.442	13.415	12.841	12.319	12.250
10	35.670	32.312	28.954	25.300	21.733	18.009	15.016	12.980	12.110
15	53.018	47.693	42.160	36.383	30.485	24.134	18.374	13.781	11.954
20	70.957	63.301	55.645	47.485	39.376	30.781	22.603	15.103	11.815
25	89.627	79.483	69.130	58.638	48.059	37.410	26.692	16.547	11.380
30	109.324	96.344	83.207	69.931	56.741	43.831	30.850	18.374	10.788
35	129.595	113.918	97.788	81.606	65.789	50.182	35.078	20.271	10.649
40	149.936	131.057	112.160	93.125	74.611	56.219	38.802	22.028	9.918
45	170.207	148.474	126.829	104.504	83.363	61.840	42.439	23.333	9.187
50	190.478	165.613	141.044	115.727	91.889	67.825	45.866	25.021	8.752
55	209.740	181.517	154.094	126.098	99.180	73.080	48.720	26.326	7.882
60	227.540	196.968	166.344	135.285	106.331	78.039	51.626	27.562	6.995

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CANDELA TABULATION - (Cont.)

65	243.426	210.401	177.497	143.950	112.891	82.406	54.114	28.084	5.829
70	256.633	221.693	186.841	151.328	118.442	86.704	56.376	28.727	5.690
75	266.846	231.037	193.993	157.453	123.035	90.358	58.046	29.684	4.663
80	274.433	237.371	199.961	162.777	127.194	92.759	59.873	30.554	3.654
85	280.192	242.051	203.911	166.048	129.160	93.925	60.743	30.554	2.767
90	283.098	244.226	205.720	167.510	130.326	94.656	61.109	30.485	2.036
95	283.028	244.888	207.043	168.310	131.492	94.586	61.631	30.781	2.192
100	282.089	244.226	206.312	167.214	130.831	94.813	61.265	28.884	2.923
105	278.069	241.164	203.911	165.683	129.804	94.221	58.708	26.987	4.228
110	271.805	236.135	199.822	162.707	127.472	91.385	57.838	24.865	5.551
115	262.757	228.984	194.271	157.818	122.583	88.827	55.784	22.829	6.716
120	251.308	219.292	185.310	151.171	117.346	85.904	51.121	21.228	8.317
125	237.527	202.884	169.928	137.460	106.766	75.481	44.996	19.975	9.779
130	210.610	181.082	151.171	123.244	95.613	66.364	39.237	19.262	10.945
135	185.971	159.488	135.128	109.533	82.476	57.907	34.139	18.896	12.110
140	161.977	140.975	118.807	92.916	70.522	48.650	31.146	18.374	13.120
145	142.941	123.766	98.310	77.587	59.438	40.542	28.954	18.009	14.007
150	120.617	99.545	82.546	66.729	50.321	39.307	29.023	19.697	16.478
155	94.517	81.832	68.921	55.419	46.528	37.636	28.449	21.663	19.262
160	73.585	63.301	55.645	49.294	42.665	35.009	27.788	23.038	21.437
165	57.037	52.948	48.198	43.396	37.915	31.877	27.057	24.290	23.333
170	46.458	43.970	40.542	36.836	32.747	29.458	27.057	25.891	25.387
175	34.852	33.251	31.581	30.119	29.023	28.084	27.492	27.127	26.987
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	18.05	N.A.	0.60
0-30	61.19	N.A.	2.20
0-40	146.28	N.A.	5.20
0-60	486.08	N.A.	17.20
0-80	1047.09	N.A.	37.10
0-90	1371.81	N.A.	48.60
10-90	1369.42	N.A.	48.50
20-40	128.23	N.A.	4.50
20-50	267.58	N.A.	9.50
40-70	598.46	N.A.	21.20
60-80	561.01	N.A.	19.90
70-80	302.35	N.A.	10.70
80-90	324.71	N.A.	11.50
90-110	635.27	N.A.	22.50
90-120	908.14	N.A.	32.10
90-130	1128.03	N.A.	39.90
90-150	1382.1	N.A.	48.90
90-180	1453.32	N.A.	51.40
110-180	818.05	N.A.	29.00
0-180	2825.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2.39
10-20	15.66
20-30	43.14
30-40	85.09
40-50	139.35
50-60	200.45
60-70	258.66
70-80	302.35
80-90	324.71
90-100	326.26
100-110	309.01
110-120	272.87
120-130	219.90
130-140	156.95
140-150	97.11
150-160	49.78
160-170	18.22
170-180	3.22

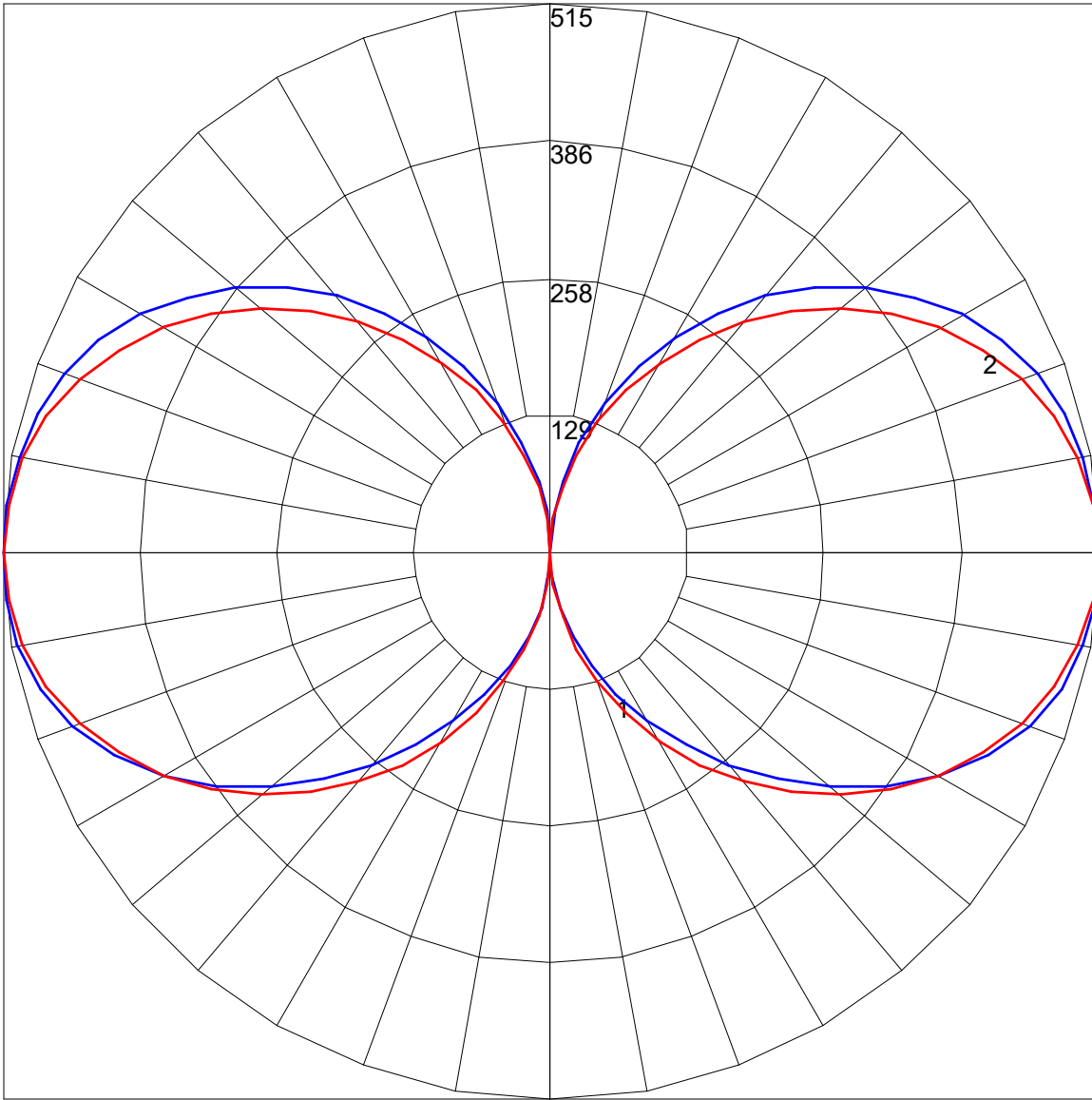
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	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 = 515.301 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.)