

IES Report

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

707-Z2-4-48-XX-XX-X-0-Z-LO-35-F6-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	120	124	126	126
Total Lumens, 4' rail length (1219mm)	1779	1835	1872	1872
Lumens per foot (305mm)	445	459	468	468
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_F6_WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L082011211 (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-F6-WH
[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board,
[MORE] square 3519, 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	1872
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	14.89
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.34
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.44
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.13 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7226	7428	8837
55	6754	6858	8457
65	6272	6225	8017
75	5689	5499	7534
85	5017	4667	7415

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PHOTOMETRIC FILENAME : VODE_707_Z2_LO_35_F6_WH.IES

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	470.705	470.705	470.705	470.705	470.705	470.705	470.705	470.705	470.705	470.705
5	470.328	470.258	470.305	470.183	470.160	470.136	469.939	469.893	469.846	469.725
10	468.628	468.582	468.652	468.408	468.118	467.874	467.532	467.097	466.662	466.175
15	463.136	462.991	462.724	462.550	462.092	461.651	461.042	460.288	459.511	458.635
20	453.409	453.287	452.997	452.632	452.075	451.321	450.422	449.349	448.236	447.041
25	440.139	440.017	439.652	439.072	438.289	437.221	435.980	434.623	433.040	431.340
30	423.899	423.707	423.267	422.588	421.492	420.036	418.482	416.585	414.567	412.305
35	405.037	404.747	404.161	403.187	401.853	400.148	398.135	395.896	393.321	390.595
40	383.838	383.693	382.939	381.628	379.975	377.789	375.353	372.511	369.402	366.119
45	361.085	360.696	359.797	358.266	356.126	353.504	350.511	347.159	343.412	339.549
50	336.632	336.145	335.078	333.251	330.751	327.683	324.063	320.102	315.677	311.228
55	310.816	310.428	309.140	306.948	304.030	300.510	296.328	291.827	286.845	281.741
60	283.736	283.226	281.839	279.432	276.080	272.090	267.374	262.172	256.459	250.821
65	255.049	254.516	252.886	250.357	246.686	242.237	237.255	231.519	225.295	219.124
70	224.808	224.251	222.621	219.849	216.108	211.439	206.138	200.112	193.720	187.207
75	193.842	193.308	191.678	188.929	185.090	180.374	175.027	168.780	162.116	155.359
80	162.481	161.872	160.295	157.667	153.851	149.257	143.956	137.808	131.121	124.340
85	132.681	132.170	130.686	128.110	124.485	120.037	114.811	108.808	102.173	95.416
90	104.528	104.069	102.585	100.178	96.674	92.377	87.296	81.362	74.826	68.063
95	93.734	93.322	92.011	89.796	86.664	82.749	78.103	72.662	66.630	60.407
100	90.480	90.062	88.804	86.809	83.868	80.220	75.847	70.766	65.099	59.166
105	87.708	87.296	86.153	84.181	81.386	77.888	73.776	68.916	63.568	57.809
110	84.500	84.112	83.015	81.165	78.520	75.214	71.276	66.683	61.602	56.080
115	80.852	80.487	79.443	77.743	75.139	72.053	68.336	63.980	59.195	54.114
120	76.717	76.380	75.383	73.730	71.444	68.428	64.954	60.917	56.469	51.608
125	72.001	71.688	70.766	69.235	67.094	64.345	61.138	57.391	53.215	48.691
130	66.799	66.509	65.656	64.276	62.304	59.775	56.811	53.308	49.056	43.952
135	61.016	60.796	60.018	58.731	56.910	54.549	51.777	47.525	43.146	38.970
140	54.694	54.427	53.772	52.652	51.052	48.958	45.095	41.302	37.654	34.058
145	48.378	48.181	47.624	46.673	45.072	41.615	38.408	35.392	32.526	29.899
150	41.859	41.644	41.157	40.229	37.288	34.614	32.283	30.044	28.368	26.494
155	35.247	35.055	34.591	32.648	30.166	28.246	26.715	25.694	24.140	22.144
160	28.147	28.002	27.034	24.696	23.165	21.930	21.245	20.126	18.450	16.820
165	19.882	19.668	17.841	17.017	16.385	16.339	15.799	14.802	13.810	12.980
170	13.566	12.400	11.670	11.380	11.861	11.838	11.571	11.258	10.869	10.405
175	8.364	7.755	7.975	8.509	8.607	8.532	8.410	8.387	8.265	8.120
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	470.705	470.705	470.705	470.705	470.705	470.705	470.705	470.705	470.705
5	469.603	469.580	469.429	469.307	469.284	469.359	469.284	469.185	469.261
10	465.665	464.980	464.447	463.936	463.594	463.258	463.084	462.915	463.037
15	457.736	456.715	455.793	454.749	453.676	452.806	452.220	452.023	451.855
20	445.533	444.199	442.813	441.281	439.820	438.387	437.100	436.566	436.398
25	429.490	427.593	425.604	423.655	421.759	419.816	417.942	416.898	416.608
30	409.921	407.589	405.159	402.653	400.299	397.839	395.577	393.901	393.513
35	387.776	384.760	381.773	378.636	375.672	372.754	370.057	367.674	367.065
40	362.546	358.997	355.494	351.753	348.325	344.920	341.690	338.865	338.041
45	335.414	331.186	327.079	322.822	318.907	314.923	311.251	307.997	306.681
50	306.466	301.600	297.006	292.268	287.721	283.371	279.357	275.593	273.818
55	276.271	270.901	265.698	260.350	255.293	250.479	245.932	241.848	239.592
60	244.841	238.861	233.172	227.360	221.769	216.473	211.538	207.112	204.438

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_LO_35_F6_WH.IES

CANDELA TABULATION - (Cont.)

65	212.657	206.190	200.013	193.865	188.053	182.248	177.138	172.301	169.093
70	180.322	173.519	166.953	160.242	153.973	148.039	142.500	137.489	133.702
75	148.260	141.160	134.282	127.380	120.843	114.591	108.831	103.704	99.569
80	117.073	109.898	102.776	95.804	89.216	82.818	76.891	71.566	66.897
85	88.218	80.951	73.875	66.683	59.949	53.186	47.206	41.615	36.610
90	60.772	53.459	46.214	38.773	31.627	24.725	18.351	12.667	7.389
95	53.627	46.771	40.014	33.014	26.303	19.761	13.636	8.045	3.016
100	52.850	46.162	39.602	32.770	26.181	19.761	13.665	7.801	3.260
105	51.730	45.339	38.970	32.358	25.938	19.471	13.201	7.679	3.550
110	50.298	44.144	38.042	31.674	25.282	18.891	13.079	7.122	3.793
115	48.523	42.734	36.778	30.409	24.383	18.328	12.789	6.687	4.135
120	46.359	40.861	35.032	29.145	23.287	17.771	11.571	6.247	4.327
125	43.465	37.828	32.306	26.547	21.443	16.263	10.527	5.812	4.570
130	38.918	34.011	29.000	24.163	19.714	14.413	9.674	5.690	4.814
135	34.591	30.288	26.158	21.976	17.649	12.737	8.654	5.545	5.058
140	30.508	27.127	23.507	19.523	14.952	11.327	8.021	5.516	5.249
145	27.422	24.406	20.468	16.263	13.056	9.819	7.511	5.516	5.394
150	24.064	20.544	17.017	14.320	11.472	9.384	7.343	5.957	5.835
155	19.105	16.652	14.657	12.302	10.550	8.851	7.169	6.368	6.322
160	15.318	13.468	12.058	10.869	9.628	8.143	7.001	6.687	6.658
165	12.128	11.327	10.475	9.506	8.485	7.563	7.076	6.954	6.954
170	9.941	9.384	8.775	8.190	7.679	7.389	7.291	7.320	7.343
175	7.975	7.876	7.708	7.586	7.534	7.534	7.586	7.586	7.586
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	174.03	N.A.	9.30
0-30	372.32	N.A.	19.90
0-40	615.65	N.A.	32.90
0-60	1126.14	N.A.	60.20
0-80	1502.38	N.A.	80.20
0-90	1602.89	N.A.	85.60
10-90	1558.18	N.A.	83.20
20-40	441.62	N.A.	23.60
20-50	702.11	N.A.	37.50
40-70	725.33	N.A.	38.70
60-80	376.24	N.A.	20.10
70-80	161.39	N.A.	8.60
80-90	100.51	N.A.	5.40
90-110	119.47	N.A.	6.40
90-120	168.68	N.A.	9.00
90-130	208.29	N.A.	11.10
90-150	254.97	N.A.	13.60
90-180	269.24	N.A.	14.40
110-180	149.77	N.A.	8.00
0-180	1872.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	44.71
10-20	129.31
20-30	198.29
30-40	243.34
40-50	260.49
50-60	250.00
60-70	214.84
70-80	161.39
80-90	100.51
90-100	63.05
100-110	56.42
110-120	49.21
120-130	39.61
130-140	28.56
140-150	18.13
150-160	9.73
160-170	3.80
170-180	0.74

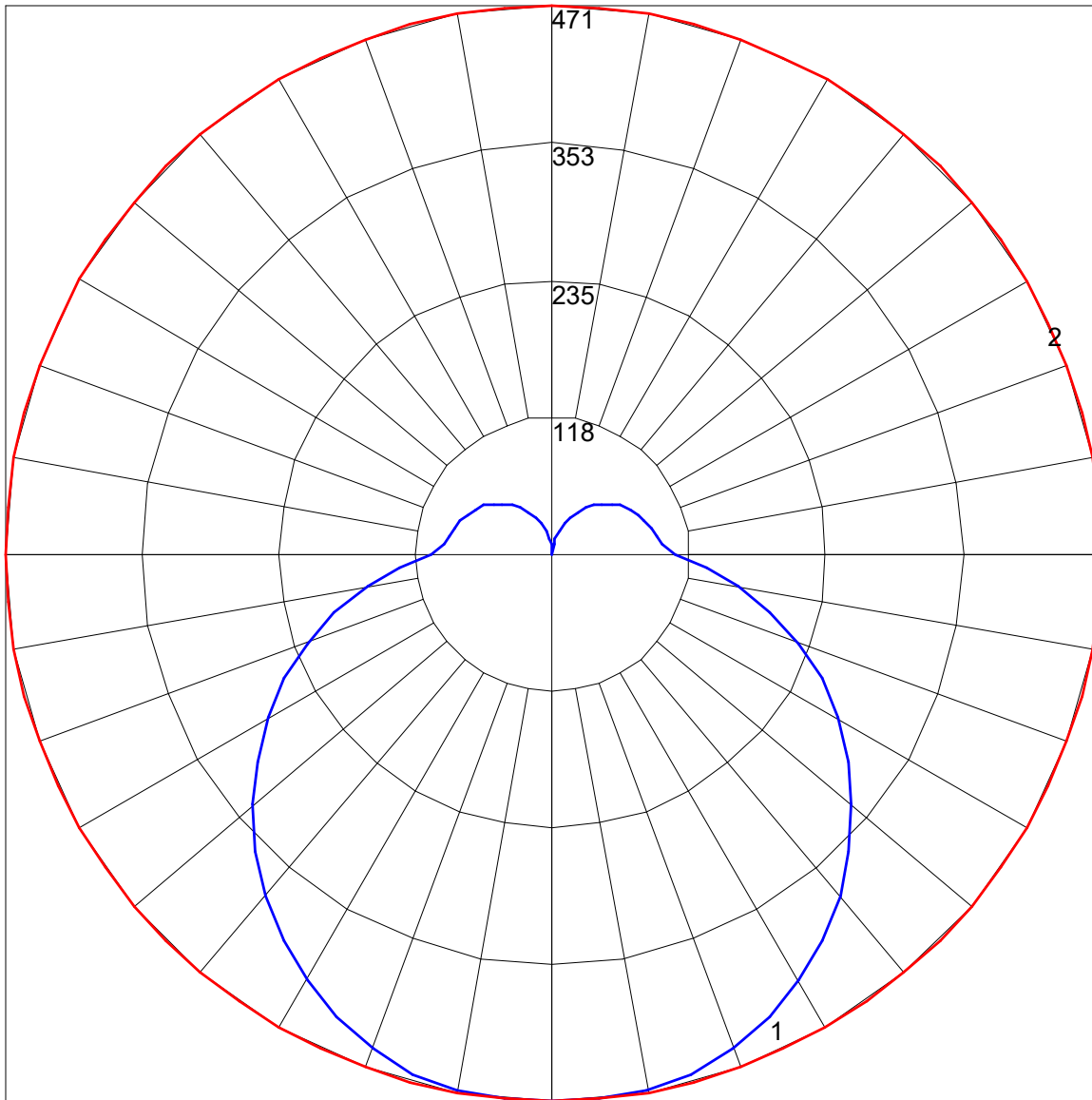
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	116	116	116	116	111	111	111	111	103	103	103	96	96	96	89	89	89	86
1	103	98	93	88	99	94	90	86	87	84	80	81	78	75	75	73	71	67
2	93	84	77	70	89	81	74	68	75	70	65	70	65	61	65	61	58	55
3	85	73	65	58	81	71	63	56	66	59	53	61	55	51	56	52	48	45
4	77	65	55	48	74	62	54	47	58	51	45	54	48	43	50	45	41	38
5	71	57	48	41	68	55	47	40	52	44	39	48	42	37	45	39	35	33
6	65	51	42	36	62	50	41	35	46	39	33	43	37	32	41	35	31	28
7	60	46	38	31	58	45	37	31	42	35	29	39	33	28	37	31	27	25
8	56	42	34	28	54	41	33	27	38	31	26	36	30	25	34	28	24	22
9	52	39	30	25	50	38	30	24	35	28	23	33	27	23	31	26	22	20
10	49	36	28	22	47	35	27	22	33	26	21	31	25	20	29	24	20	18

POLAR GRAPH



Maximum Candela = 470.705 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)