

IES Report

ZipTwo® | 707 | Square 3572, Side Diffuse | 80 CRI | LO

707-Z2-4-48-XX-XX-X-0-Z-LO-35-H9-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	122	126	128	128
Total Lumens, 4' rail length (1219mm)	1810	1867	1905	1905
Lumens per foot (305mm)	452	467	476	476
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_H9_WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011202 (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-H9-WH

[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board, square 3572,

[MORE] 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	1905
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
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	0.22 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3041	2328	288
55	3371	2674	277
65	3539	2898	237
75	3596	3141	259
85	3640	3377	461

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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	15.057	15.057	15.057	15.057	15.057	15.057	15.057	15.057	15.057	15.057
5	23.386	23.339	23.142	22.753	22.121	21.344	20.445	19.494	18.548	17.719
10	52.507	52.316	51.753	50.733	49.277	47.427	45.217	42.589	39.672	36.563
15	84.355	84.013	82.969	81.241	78.712	75.504	71.787	67.431	62.547	57.368
20	118.140	117.607	116.075	113.523	109.806	105.160	99.789	93.421	86.321	78.932
25	153.195	152.441	150.278	146.897	141.845	135.743	128.545	120.014	110.583	100.810
30	187.473	186.574	183.802	179.475	173.200	165.863	156.791	146.317	134.427	122.177
35	220.580	219.513	216.352	211.050	203.661	194.399	183.216	171.257	157.690	143.057
40	251.697	250.432	246.616	240.416	231.930	220.626	208.986	194.352	176.894	161.704
45	279.212	277.756	273.522	266.841	256.969	245.085	231.205	215.255	197.171	177.503
50	301.774	300.243	295.551	288.208	277.878	264.967	249.823	232.418	213.945	193.256
55	318.640	316.987	312.249	304.494	293.967	280.355	264.625	246.129	225.516	204.514
60	329.191	327.590	322.944	315.363	304.517	290.713	274.642	255.705	234.459	212.437
65	333.906	332.427	327.781	320.148	309.453	296.154	280.233	261.348	240.369	215.621
70	333.274	331.940	327.416	320.224	310.184	297.151	281.474	263.192	242.602	220.533
75	328.413	327.126	323.066	316.384	306.826	294.333	279.577	261.783	241.558	220.046
80	320.682	319.418	315.677	309.407	300.243	288.794	274.961	257.943	238.618	217.807
85	311.251	310.132	306.489	300.724	292.413	281.619	268.006	252.474	234.558	214.699
90	301.333	300.365	296.908	291.636	283.759	273.499	261.029	245.839	228.259	207.257
95	291.415	290.371	287.286	282.153	274.572	264.845	253.031	238.542	221.699	202.594
100	281.549	280.575	277.460	272.501	265.234	255.850	244.522	230.765	214.867	196.904
105	271.724	270.779	267.838	262.926	256.093	246.952	235.944	222.523	207.257	191.191
110	261.516	260.542	257.746	253.031	246.227	237.307	226.658	213.655	197.658	183.193
115	250.479	249.557	246.761	241.993	235.265	226.850	216.497	204.003	190.559	174.708
120	238.276	237.400	234.535	230.034	223.619	215.255	205.146	193.888	180.711	165.619
125	224.663	223.741	221.113	216.810	210.494	202.495	193.210	182.248	169.169	155.115
130	209.299	208.475	205.900	201.811	196.220	189.005	180.032	169.435	156.768	142.210
135	193.012	192.282	189.996	186.209	180.687	173.617	165.109	153.996	140.169	125.947
140	174.928	174.174	171.987	168.391	163.403	156.820	146.659	133.893	121.400	109.272
145	154.703	154.141	152.175	148.990	144.397	135.569	124.509	113.692	103.286	93.421
150	133.458	132.948	131.295	128.447	121.643	111.725	102.973	94.511	87.267	80.730
155	111.285	110.896	109.487	105.305	96.216	88.897	82.650	78.103	73.173	67.286
160	88.143	87.777	86.321	78.103	72.001	67.338	64.856	61.526	57.031	50.443
165	63.255	62.889	57.321	52.461	49.346	48.349	46.528	43.686	39.092	35.322
170	38.848	35.786	31.018	29.023	29.487	29.609	28.756	27.127	25.474	23.652
175	17.841	13.421	13.369	14.732	15.677	15.608	15.289	14.778	14.077	13.323
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	15.057	15.057	15.057	15.057	15.057	15.057	15.057	15.057	15.057
5	16.971	16.431	15.944	15.631	15.411	15.318	15.242	15.196	15.266
10	33.037	29.534	25.769	21.878	18.380	16.339	15.341	15.074	15.121
15	51.684	45.774	39.626	33.350	26.982	20.590	16.095	14.854	14.831
20	70.789	62.379	53.696	44.898	36.053	27.202	18.548	14.610	14.343
25	90.039	79.054	67.773	56.347	45.095	33.669	22.632	14.535	13.810
30	109.197	95.143	81.507	67.286	53.337	39.481	26.471	14.709	13.033
35	126.991	110.774	94.389	77.378	62.182	45.385	31.308	15.219	12.250
40	143.475	125.141	106.082	86.907	68.649	50.901	34.127	17.162	11.380
45	158.398	137.663	116.708	96.042	75.504	56.614	36.511	18.450	10.359
50	171.599	148.990	126.260	102.753	80.852	59.166	38.384	19.036	8.799
55	180.618	157.864	133.673	108.756	85.376	62.866	40.351	20.277	8.265
60	186.255	163.769	139.026	114.109	89.314	64.977	42.299	21.298	7.146

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CANDELA TABULATION - (Cont.)

65	192.989	169.140	143.376	116.661	91.547	66.485	43.419	21.489	5.394
70	195.054	171.576	145.708	118.627	93.200	68.040	45.895	21.466	4.959
75	194.056	171.790	146.462	119.816	93.931	69.014	46.330	22.342	3.892
80	193.790	170.868	145.951	119.700	93.879	68.307	45.994	22.318	2.871
85	191.945	169.070	144.374	118.140	93.131	67.825	45.020	21.512	3.161
90	188.320	165.787	141.845	116.244	91.791	67.703	45.217	21.930	2.720
95	183.437	160.927	138.121	114.446	90.306	66.050	44.753	21.588	2.285
100	178.188	156.890	134.502	110.507	87.510	63.980	44.022	20.393	1.995
105	171.599	151.496	130.007	106.888	84.744	62.350	43.419	19.302	1.897
110	164.401	144.785	124.485	103.408	81.850	60.140	41.371	17.551	2.042
115	157.354	138.661	119.039	98.090	77.911	57.176	38.408	15.121	2.482
120	148.845	131.173	112.648	92.858	73.776	54.207	35.490	12.302	2.917
125	139.171	121.957	104.093	85.347	67.286	50.269	28.513	11.037	3.352
130	125.918	109.318	92.887	76.061	59.583	42.543	24.140	9.698	3.695
135	110.995	96.582	82.041	66.996	51.974	35.832	19.882	8.265	3.985
140	96.483	84.402	72.077	58.023	44.022	30.044	16.698	7.488	4.280
145	84.135	74.582	61.184	48.592	36.146	24.383	14.291	6.757	4.570
150	72.831	62.060	50.686	40.061	29.853	20.491	13.004	6.635	5.203
155	58.052	49.103	40.838	32.405	24.818	17.939	11.548	6.977	5.980
160	44.022	37.799	31.430	25.914	20.544	15.121	10.307	7.412	6.856
165	31.430	27.736	24.041	20.103	16.020	12.012	9.042	7.778	7.534
170	21.512	19.227	16.797	14.245	11.670	9.553	8.485	8.190	8.120
175	12.371	11.403	10.359	9.576	9.094	8.729	8.630	8.607	8.555
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	17.95	N.A.	0.90
0-30	61.52	N.A.	3.20
0-40	144.70	N.A.	7.60
0-60	441.68	N.A.	23.20
0-80	850.63	N.A.	44.70
0-90	1060.71	N.A.	55.70
10-90	1058.4	N.A.	55.60
20-40	126.75	N.A.	6.70
20-50	254.77	N.A.	13.40
40-70	494.80	N.A.	26.00
60-80	408.96	N.A.	21.50
70-80	211.13	N.A.	11.10
80-90	210.07	N.A.	11.00
90-110	378.97	N.A.	19.90
90-120	534.04	N.A.	28.00
90-130	658.25	N.A.	34.60
90-150	803.85	N.A.	42.20
90-180	844.23	N.A.	44.30
110-180	465.26	N.A.	24.40
0-180	1904.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2.31
10-20	15.64
20-30	43.57
30-40	83.18
40-50	128.01
50-60	168.96
60-70	197.83
70-80	211.13
80-90	210.07
90-100	198.81
100-110	180.16
110-120	155.07
120-130	124.21
130-140	89.48
140-150	56.12
150-160	28.88
160-170	10.13
170-180	1.37

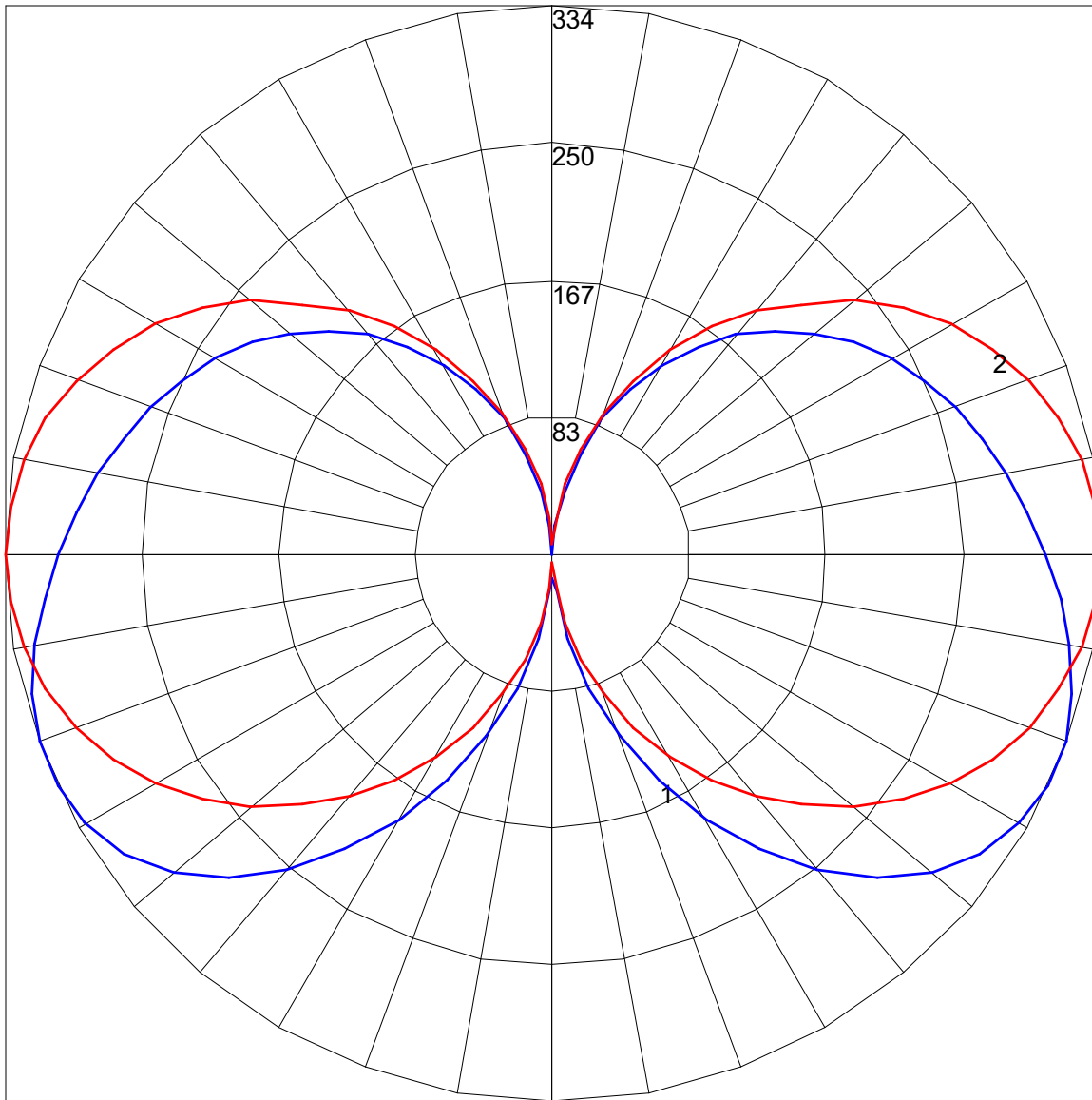
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	56
1	93	86	80	75	86	80	74	69	67	63	59	56	52	49	45	43	40	35
2	83	72	64	56	75	66	59	52	55	49	44	45	41	37	36	33	29	25
3	74	61	52	44	67	56	48	41	47	40	34	38	33	28	30	26	22	18
4	67	53	43	35	61	49	40	33	40	33	28	33	27	23	26	21	18	14
5	61	46	36	29	55	43	34	27	35	28	23	29	23	18	22	18	14	11
6	55	41	31	24	50	38	29	23	31	24	19	25	20	15	20	15	12	9
7	51	37	27	21	46	34	25	19	28	21	16	23	17	13	18	13	10	7
8	47	33	24	18	43	30	22	16	25	18	14	21	15	11	16	12	8	6
9	44	30	21	15	40	27	20	14	23	16	12	19	13	10	15	10	7	5
10	41	27	19	14	37	25	17	12	21	15	10	17	12	8	13	9	6	4

POLAR GRAPH



Maximum Candela = 333.906 Located At Horizontal Angle = 0, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)