

IES Report

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

707-Z2-4-48-XX-XX-X-0-Z-LO-35-S6-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	127	131	134	134
Total Lumens, 4' rail length (1219mm)	1886	1945	1985	1985
Lumens per foot (305mm)	471	486	496	496
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_S6.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911533 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z2-48-Z-LO-35-S6-AL

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

[MORE] low output, clear anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1985
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	14.89
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.70
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.64
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.11 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.09 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6874	6436	6760
55	6848	6232	6367
65	6590	5975	5968
75	6087	5654	5637
85	5525	5318	5726

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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	325.438	325.438	325.438	325.438	325.438	325.438	325.438	325.438	325.438	325.438
5	333.471	333.448	333.448	333.303	332.862	332.595	332.160	331.673	331.018	330.310
10	341.980	341.933	341.637	341.150	340.495	339.573	338.505	337.241	336.000	334.567
15	348.058	347.913	347.426	346.672	345.506	344.044	342.345	340.327	337.920	335.437
20	352.773	352.454	351.654	350.413	348.760	346.475	343.754	340.762	337.363	333.813
25	356.271	355.836	354.763	353.017	350.413	347.304	343.679	339.306	334.614	329.701
30	358.997	358.730	357.077	354.693	351.190	347.037	342.148	336.487	330.240	323.820
35	361.230	360.673	358.875	355.691	351.167	345.773	339.526	332.253	324.307	316.164
40	362.494	361.740	359.362	355.447	350.076	343.290	335.559	326.714	317.109	307.267
45	361.618	360.673	357.877	353.307	346.962	339.062	329.921	319.592	308.241	296.908
50	357.442	356.369	353.208	348.203	341.028	332.108	321.946	310.132	297.569	284.681
55	348.493	347.350	344.143	338.772	331.209	321.680	310.793	298.126	284.513	270.413
60	334.057	332.937	329.701	324.330	316.796	307.098	295.962	282.930	268.592	253.883
65	313.879	312.927	309.865	304.662	297.615	288.283	277.269	264.312	250.113	235.022
70	289.084	288.254	285.459	280.842	274.154	265.333	254.881	242.747	229.088	214.287
75	261.273	260.472	258.088	253.907	247.979	240.074	230.451	219.147	206.358	192.699
80	232.197	231.542	229.500	225.858	220.603	213.504	204.926	194.109	183.239	170.334
85	203.951	203.319	201.475	198.290	193.935	188.007	180.322	170.943	159.761	147.825
90	179.011	178.425	176.656	173.762	169.435	163.670	156.646	147.923	138.028	126.481
95	167.829	167.318	165.689	163.015	159.100	153.630	147.169	139.194	129.885	119.550
100	160.341	159.929	158.421	155.846	152.099	147.047	140.917	133.359	124.462	114.666
105	153.729	153.317	151.832	149.402	145.760	140.917	135.036	127.791	119.335	110.020
110	147.262	146.827	145.487	143.011	139.386	134.769	129.108	122.223	113.987	105.137
115	140.557	140.093	138.753	136.399	132.849	128.400	122.908	116.197	108.518	99.980
120	133.359	132.948	131.561	129.224	125.872	121.446	116.151	109.898	102.509	94.465
125	125.338	124.973	123.610	121.353	118.163	113.935	108.878	102.973	95.926	88.386
130	116.539	116.122	114.811	112.671	109.632	105.693	100.978	95.265	88.897	81.264
135	106.813	106.424	105.183	103.240	100.375	96.727	92.377	86.907	79.512	71.566
140	96.361	95.973	94.853	93.055	90.428	87.099	82.285	75.359	68.817	62.135
145	85.179	84.866	83.816	82.163	79.930	75.580	69.693	64.078	58.708	53.261
150	73.561	73.266	72.367	70.980	67.529	62.402	57.832	53.430	49.491	46.017
155	61.550	61.283	60.552	58.510	53.795	50.100	46.725	44.341	41.934	38.970
160	49.399	49.225	48.447	44.242	41.203	38.727	37.462	35.832	33.327	29.487
165	36.320	36.146	32.915	30.288	28.391	27.788	26.889	25.282	22.800	20.955
170	22.800	20.932	18.427	17.330	17.748	17.771	17.307	16.605	15.776	14.755
175	9.239	8.799	8.822	9.529	9.872	9.819	9.628	9.239	8.799	8.311
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	325.438	325.438	325.438	325.438	325.438	325.438	325.438	325.438	325.438
5	329.631	328.779	328.048	327.079	326.227	325.328	324.527	323.744	323.454
10	332.839	331.163	329.365	327.369	325.351	323.408	321.343	319.348	318.304
15	332.763	329.968	327.172	324.139	321.071	317.915	314.679	311.518	309.262
20	329.875	325.885	321.610	317.376	313.125	308.798	304.570	300.266	297.105
25	324.452	318.861	313.345	307.655	302.163	296.786	291.392	286.091	281.642
30	316.964	309.772	302.766	295.765	288.939	282.106	275.541	269.195	263.604
35	307.609	298.903	290.249	281.886	273.453	265.356	257.578	250.235	243.675
40	296.960	286.601	276.126	266.162	256.389	247.074	238.131	229.767	222.279
45	284.734	272.745	260.838	249.290	238.084	227.482	217.541	208.255	199.967
50	270.848	257.555	244.186	231.252	219.170	207.211	196.394	186.180	177.213
55	255.368	240.880	226.368	212.292	199.137	186.499	174.731	163.821	154.216
60	238.009	222.766	207.454	192.769	178.820	165.300	152.586	141.282	130.976

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CANDELA TABULATION - (Cont.)

65	219.002	203.342	187.763	172.376	157.690	144.055	130.732	118.917	108.176
70	198.679	182.996	167.173	151.397	136.712	122.612	109.121	97.214	86.055
75	177.312	161.895	146.317	130.686	116.000	101.784	88.363	76.113	64.711
80	155.968	141.213	126.040	111.018	96.558	82.406	68.817	56.370	46.383
85	134.792	120.524	106.036	91.083	76.914	62.744	49.636	37.166	25.671
90	114.034	100.711	86.832	72.222	58.342	44.561	30.920	18.502	7.001
95	107.787	95.294	82.163	68.307	54.938	41.667	28.658	16.339	5.058
100	103.559	91.936	79.199	66.288	53.261	40.594	27.881	16.066	4.669
105	99.470	88.218	76.206	64.032	51.266	38.796	26.715	15.121	4.135
110	95.364	84.280	72.976	60.993	49.178	36.830	25.305	13.421	3.596
115	90.428	80.220	69.380	57.710	46.452	34.812	23.652	11.716	3.016
120	85.347	75.673	65.366	54.381	43.686	32.695	21.808	9.796	2.529
125	79.785	70.667	60.749	50.100	39.962	29.708	18.548	8.242	2.187
130	72.442	63.348	54.114	44.677	35.734	26.570	15.776	7.047	2.140
135	63.713	55.813	47.838	39.573	31.697	22.800	13.734	6.148	0.000
140	55.471	48.691	41.934	34.759	27.399	19.181	11.983	5.493	0.000
145	48.157	42.978	36.198	29.684	22.608	16.286	10.428	4.959	0.000
150	42.004	36.412	30.554	24.308	18.862	14.001	9.065	4.646	0.000
155	34.446	29.342	24.627	19.836	15.828	12.105	7.755	4.495	0.000
160	25.984	22.533	19.250	16.095	13.247	9.993	6.780	4.159	0.000
165	18.937	17.087	15.074	12.859	10.405	8.021	5.812	3.770	0.000
170	13.566	12.157	10.550	8.996	7.563	6.078	4.594	3.231	0.000
175	7.679	7.047	6.345	5.614	4.860	4.060	3.329	2.894	0.000
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	125.73	N.A.	6.30
0-30	276.32	N.A.	13.90
0-40	471.80	N.A.	23.80
0-60	933.56	N.A.	47.00
0-80	1350.15	N.A.	68.00
0-90	1498.26	N.A.	75.50
10-90	1466.73	N.A.	73.90
20-40	346.07	N.A.	17.40
20-50	571.49	N.A.	28.80
40-70	686.29	N.A.	34.60
60-80	416.60	N.A.	21.00
70-80	192.06	N.A.	9.70
80-90	148.11	N.A.	7.50
90-110	221.60	N.A.	11.20
90-120	310.37	N.A.	15.60
90-130	381.03	N.A.	19.20
90-150	463.50	N.A.	23.40
90-180	486.73	N.A.	24.50
110-180	265.12	N.A.	13.40
0-180	1984.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	31.53
10-20	94.20
20-30	150.58
30-40	195.48
40-50	225.43
50-60	236.33
60-70	224.54
70-80	192.06
80-90	148.11
90-100	117.46
100-110	104.14
110-120	88.76
120-130	70.67
130-140	50.69
140-150	31.78
150-160	16.50
160-170	5.91
170-180	0.81

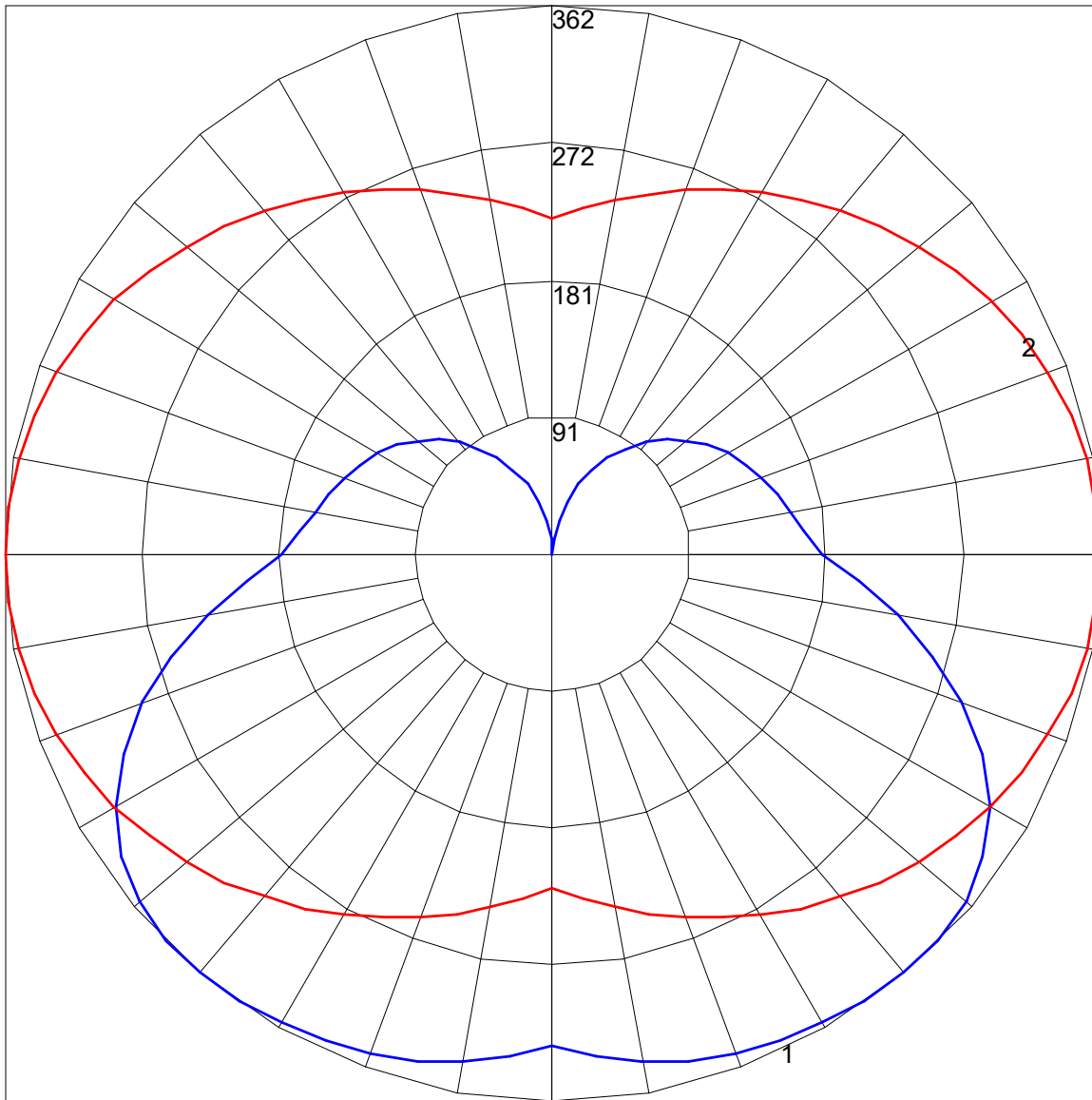
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	80	80	80	75
1	100	94	88	84	95	89	84	80	80	76	73	72	69	66	65	62	60	56
2	89	80	72	65	84	76	69	63	68	62	57	61	57	52	55	51	48	44
3	81	69	60	53	76	66	57	51	59	52	47	53	47	43	47	43	39	36
4	73	60	51	44	69	57	49	42	52	44	39	46	40	36	41	37	33	29
5	67	53	44	37	63	51	42	35	46	38	33	41	35	30	37	32	28	25
6	62	48	38	32	58	45	37	30	41	34	28	37	31	26	33	28	24	21
7	57	43	34	27	54	41	32	26	37	30	25	33	27	23	30	25	21	18
8	53	39	30	24	50	37	29	23	34	27	22	31	24	20	28	22	19	16
9	49	35	27	21	46	34	26	21	31	24	19	28	22	18	25	20	17	14
10	46	32	24	19	43	31	24	18	28	22	17	26	20	16	23	18	15	13

POLAR GRAPH



Maximum Candela = 362.494 Located At Horizontal Angle = 0, Vertical Angle = 40
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (40) (Through Max. Cd.)