

IES Report

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

707-Z2-4-48-XX-XX-X-0-Z-LO-35-S9-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	79	82	84	85
Total Lumens, 4' rail length (1219mm)	1282	1322	1349	1376
Lumens per foot (305mm)	320	331	337	344
Input Power (W), 4' rail length (1219mm)	16.3	16.3	16.3	16.3
Watts per foot (305mm)	4.1	4.1	4.1	4.1
CRI	85	85	85	85

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_S9.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L031905301 (SOURCE REPORT FOR REFERENCE)
 [TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
 [ISSUEDATE] 3/25/2019
 [MANUFAC] Vode Lighting
 [LUMCAT] 707-Z2-48-Z-LO-35-S9-AL
 [LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board,
 [MORE] square profile 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	1349
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	16.25
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)	0.12 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.12 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3396	2330	45
55	4003	2865	51
65	4264	3308	68
75	4296	3655	87
85	4405	4089	195

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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	14.343	14.320	14.175	13.903	13.514	13.004	12.447	11.791	10.985	10.162
10	31.993	31.871	31.506	30.821	29.899	28.687	27.301	25.624	23.797	21.854
15	52.797	52.531	51.777	50.663	48.935	46.771	44.289	41.348	38.164	34.788
20	76.572	76.160	75.040	73.196	70.592	67.263	63.446	58.998	54.207	49.033
25	102.828	102.266	100.665	98.037	94.418	89.674	84.355	78.201	71.491	64.368
30	130.976	130.274	128.058	124.538	119.700	113.448	106.401	98.403	89.627	80.539
35	160.051	159.152	156.281	151.763	145.731	137.883	129.033	119.039	108.077	96.773
40	188.541	187.352	183.970	178.576	171.088	161.872	151.154	139.119	126.115	112.624
45	214.356	213.069	209.131	202.983	194.474	183.924	171.576	157.766	142.790	127.090
50	235.167	233.659	229.552	222.911	213.747	202.298	189.005	173.640	157.110	139.728
55	248.826	247.469	243.258	236.576	227.215	215.400	201.422	185.820	168.119	149.623
60	254.562	253.350	249.359	242.968	234.001	222.308	208.742	192.867	175.241	156.699
65	252.909	251.720	248.170	242.434	234.071	223.230	210.372	195.199	178.089	159.854
70	245.520	244.574	241.460	236.309	228.723	219.292	207.431	193.308	177.260	159.807
75	234.871	233.949	231.229	226.780	220.191	211.636	201.034	188.297	173.519	157.012
80	223.399	222.598	220.191	216.276	210.395	202.785	193.378	181.685	168.217	152.975
85	212.993	212.292	210.053	206.457	201.132	194.207	185.646	175.119	162.261	148.335
90	204.728	204.050	202.031	198.557	193.500	187.033	178.988	168.902	157.058	143.863
95	198.749	198.047	196.052	192.722	187.810	181.441	173.687	163.989	152.586	139.925
100	194.520	193.888	191.847	188.517	183.582	177.260	169.505	159.906	148.700	136.375
105	191.023	190.414	188.372	184.892	180.032	173.542	165.764	156.136	145.029	132.803
110	187.375	186.644	184.556	181.030	176.047	169.435	161.582	151.954	140.870	128.812
115	182.514	181.737	179.475	175.995	170.943	164.256	156.380	146.804	135.842	124.074
120	175.705	174.951	172.765	169.192	164.134	157.499	149.692	140.314	129.642	118.239
125	166.808	166.106	163.891	160.393	155.434	148.990	141.456	132.385	122.397	111.337
130	155.678	154.993	152.853	149.547	144.785	138.684	131.416	123.030	113.158	100.978
135	142.599	141.967	140.018	136.863	132.484	126.701	120.060	110.339	99.377	88.752
140	127.965	127.380	125.628	122.711	118.749	113.500	104.406	94.876	85.765	76.867
145	112.213	111.650	110.072	107.590	103.948	95.828	87.777	80.144	72.709	65.685
150	95.630	95.195	93.856	91.646	85.057	78.201	72.077	66.021	61.039	56.225
155	78.520	78.132	76.960	72.541	66.219	61.283	56.933	54.259	50.663	46.093
160	60.871	60.552	58.708	52.751	48.714	45.605	44.196	41.667	37.973	33.205
165	41.714	41.279	36.511	33.501	31.552	31.216	30.119	28.031	25.503	23.386
170	23.629	21.176	19.036	18.473	19.546	19.859	19.204	18.525	17.626	16.507
175	11.716	9.454	9.651	10.626	11.206	11.229	11.037	10.695	10.260	9.674
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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	9.239	8.242	7.221	6.177	5.058	3.961	2.917	2.140	1.897
10	19.691	17.481	15.121	12.760	10.307	7.830	5.348	2.993	1.850
15	31.117	27.370	23.507	19.616	15.753	11.838	7.900	4.205	1.798
20	43.442	37.973	32.358	26.738	21.222	15.828	10.452	5.446	1.798
25	56.834	49.248	41.667	33.982	26.837	19.813	12.980	6.658	1.699
30	70.667	61.039	51.173	41.470	32.451	23.751	15.463	7.830	1.699
35	84.744	72.755	60.697	48.935	37.996	27.614	17.818	8.944	1.699
40	98.258	84.135	70.081	56.103	43.343	31.262	20.004	9.872	1.462
45	110.873	94.662	78.665	62.744	48.302	34.667	21.779	10.771	1.462
50	121.812	103.849	86.200	68.626	52.652	37.485	23.583	11.617	1.363
55	130.541	111.337	92.324	73.440	56.347	39.991	25.305	12.279	1.363
60	136.712	116.783	96.970	77.181	59.241	41.980	26.523	12.812	1.363

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CANDELA TABULATION - (Cont.)

65	139.925	119.938	99.864	79.611	61.138	43.419	27.446	13.468	1.363
70	140.580	120.692	101.100	80.951	62.304	44.266	28.002	13.734	1.166
75	139.119	119.967	101.007	81.461	62.692	44.677	28.345	13.903	1.119
80	135.935	118.071	99.888	80.898	62.524	44.706	28.420	13.932	1.067
85	132.385	115.542	98.090	79.808	62.135	44.411	28.345	13.955	1.021
90	128.835	112.723	96.048	78.323	60.917	43.807	28.246	13.810	0.974
95	125.460	109.951	93.566	76.746	59.798	43.367	27.881	13.903	1.119
100	122.496	107.201	91.304	74.675	58.487	42.543	27.422	13.734	1.166
105	119.161	104.284	88.531	72.686	57.002	41.522	26.860	12.911	1.218
110	115.252	100.955	85.933	70.545	55.228	40.304	26.135	11.159	1.311
115	110.803	96.970	82.505	67.773	53.285	38.796	24.505	10.138	1.409
120	105.502	92.255	78.468	64.444	50.367	36.366	21.878	8.677	1.554
125	98.890	85.614	71.879	58.534	45.431	32.573	18.137	7.366	1.653
130	88.386	76.206	64.154	52.119	40.159	28.124	15.318	6.566	1.850
135	77.766	67.361	56.643	45.484	35.270	23.119	13.491	5.881	1.995
140	67.651	58.853	49.080	39.527	29.197	19.790	12.012	5.394	2.042
145	58.829	51.463	41.835	32.381	23.896	16.727	10.330	4.959	2.140
150	50.512	42.323	34.179	26.593	20.201	14.952	9.483	4.982	2.482
155	39.208	32.816	27.301	21.634	17.307	13.033	8.532	5.081	2.819
160	29.122	25.039	21.176	17.870	14.755	11.380	7.853	5.034	3.161
165	21.199	19.059	16.919	14.488	12.058	9.408	7.053	4.791	3.451
170	15.219	13.833	12.302	10.695	8.996	7.389	5.759	4.304	3.648
175	9.019	8.311	7.511	6.734	5.933	5.156	4.373	3.892	3.695
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	10.65	N.A.	0.80
0-30	38.94	N.A.	2.90
0-40	96.56	N.A.	7.20
0-60	315.79	N.A.	23.40
0-80	611.20	N.A.	45.30
0-90	755.43	N.A.	56.00
10-90	754.28	N.A.	55.90
20-40	85.91	N.A.	6.40
20-50	179.19	N.A.	13.30
40-70	364.88	N.A.	27.10
60-80	295.40	N.A.	21.90
70-80	149.75	N.A.	11.10
80-90	144.24	N.A.	10.70
90-110	261.23	N.A.	19.40
90-120	371.96	N.A.	27.60
90-130	461.68	N.A.	34.20
90-150	565.74	N.A.	41.90
90-180	593.44	N.A.	44.00
110-180	332.20	N.A.	24.60
0-180	1348.87	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1.16
10-20	9.49
20-30	28.29
30-40	57.62
40-50	93.28
50-60	125.95
60-70	145.65
70-80	149.75
80-90	144.24
90-100	135.76
100-110	125.47
110-120	110.72
120-130	89.72
130-140	64.30
140-150	39.76
150-160	20.00
160-170	6.77
170-180	0.93

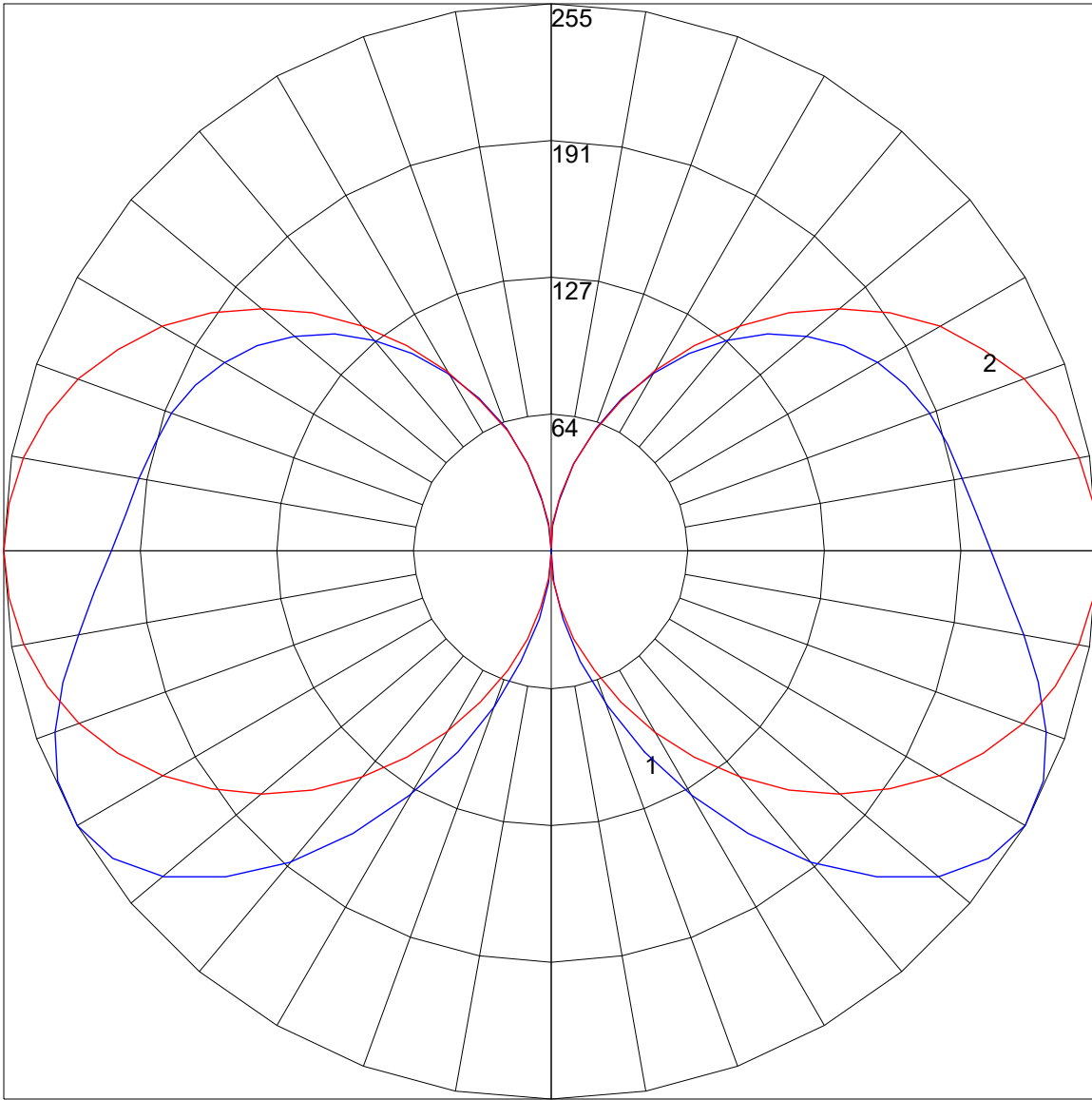
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	93	87	80	75	86	80	74	70	67	63	59	56	53	50	45	43	41	35
2	83	72	64	56	76	66	59	52	56	50	44	46	41	37	36	33	30	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	22	26	21	18	14
5	60	46	36	29	55	42	33	27	35	28	22	29	23	18	22	18	14	11
6	55	41	31	24	50	37	29	22	31	24	19	25	20	15	20	15	12	8
7	51	36	27	21	46	33	25	19	28	21	16	23	17	13	18	13	10	7
8	47	33	24	18	43	30	22	16	25	18	13	20	15	11	16	12	8	6
9	43	29	21	15	40	27	19	14	23	16	12	19	13	9	15	10	7	5
10	40	27	19	13	37	25	17	12	21	14	10	17	12	8	13	9	6	4

POLAR GRAPH



Maximum Candela = 254.562 Located At Horizontal Angle = 0, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)