

IES Report

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

707-Z2-4-48-XX-XX-X-0-Z-LO-35-S4-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	109	112	114	114
Total Lumens, 4' rail length (1219mm)	1612	1663	1697	1697
Lumens per foot (305mm)	403	416	424	424
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_S4.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911531 (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-S4-AL

[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board, round diffuse 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	1697
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	14.89
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.11 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12523	12207	11935
55	12691	12068	11566
65	13367	12078	10932
75	15807	13039	9710
85	31535	22400	8071

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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	510.151	510.151	510.151	510.151	510.151	510.151	510.151	510.151	510.151	510.151
5	508.741	508.764	508.712	508.712	508.689	508.689	508.666	508.643	508.643	508.741
10	503.243	503.243	503.272	503.196	503.196	503.121	503.028	502.953	502.877	502.785
15	494.056	494.056	493.980	493.911	493.812	493.644	493.447	493.354	493.157	492.988
20	480.733	480.785	480.663	480.588	480.321	480.078	479.788	479.469	479.132	478.767
25	463.768	463.716	463.571	463.379	462.939	462.625	462.185	461.674	461.164	460.653
30	443.056	443.010	442.813	442.523	442.059	441.525	440.893	440.185	439.431	438.753
35	418.992	418.992	418.650	418.261	417.652	416.950	416.098	415.245	414.300	413.349
40	392.057	391.912	391.570	391.059	390.282	389.406	388.339	387.243	386.002	384.789
45	362.303	362.158	361.717	361.015	360.041	358.852	357.558	356.126	354.595	353.162
50	330.652	330.455	329.898	328.999	327.781	326.250	324.551	322.776	320.781	319.029
55	297.836	297.639	296.908	295.841	294.333	292.436	290.296	288.063	285.656	283.226
60	264.480	264.236	263.337	261.928	260.130	257.723	255.125	252.254	249.214	246.152
65	231.130	230.741	229.790	228.114	225.904	223.132	219.924	216.421	212.634	208.841
70	198.557	198.169	196.951	195.228	192.746	189.538	185.844	181.708	177.190	172.498
75	167.394	167.005	165.712	163.722	160.904	157.424	153.340	148.671	143.544	138.075
80	138.173	137.785	136.399	134.282	131.318	127.548	123.175	118.216	112.578	106.592
85	112.456	112.015	110.583	108.466	105.403	101.587	97.040	91.889	86.078	79.878
90	88.682	88.293	86.930	84.813	81.850	78.033	73.683	68.626	62.982	56.956
95	68.162	67.773	66.561	64.566	61.840	58.267	54.207	49.544	44.440	38.970
100	50.999	50.663	49.590	47.769	45.310	42.247	38.698	34.643	30.241	25.671
105	37.097	36.807	35.832	34.324	32.260	29.731	26.767	23.461	19.935	16.385
110	26.204	25.961	25.184	23.995	22.318	20.300	18.061	15.463	12.859	10.260
115	17.939	17.748	17.162	16.240	14.999	13.514	11.861	10.040	8.242	6.467
120	11.960	11.838	11.403	10.794	9.918	8.851	7.731	6.537	5.394	4.304
125	7.923	7.853	7.563	7.169	6.612	5.933	5.226	4.495	3.840	3.260
130	5.446	5.394	5.203	4.936	4.646	4.205	3.863	3.451	3.086	2.796
135	4.037	3.985	3.938	3.770	3.625	3.428	3.231	3.016	2.842	2.651
140	3.451	3.405	3.352	3.306	3.207	3.115	2.941	2.819	2.697	2.552
145	3.161	3.161	3.161	3.115	3.039	2.941	2.796	2.697	2.604	2.529
150	3.016	2.993	2.964	2.964	2.842	2.796	2.697	2.627	2.604	2.552
155	2.871	2.871	2.871	2.796	2.720	2.697	2.651	2.651	2.604	0.000
160	2.819	2.772	2.749	2.697	2.674	2.651	2.651	2.627	2.552	0.000
165	2.674	2.697	2.651	2.627	2.627	2.627	2.627	2.604	0.000	0.000
170	2.627	2.627	2.627	2.627	2.627	2.627	2.604	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	510.151	510.151	510.151	510.151	510.151	510.151	510.151	510.151	510.151
5	508.666	508.619	508.567	508.567	508.567	508.567	508.544	508.567	508.643
10	502.709	502.611	502.587	502.541	502.442	502.419	502.442	502.274	502.367
15	492.768	492.548	492.379	492.234	492.089	491.939	491.892	491.869	491.869
20	478.425	478.082	477.769	477.526	477.236	476.940	476.847	476.847	476.702
25	460.120	459.609	459.076	458.635	458.246	458.009	457.713	457.690	457.643
30	438.022	437.268	436.636	436.056	435.545	435.180	434.838	434.646	434.594
35	412.305	411.481	410.605	409.799	409.196	408.732	408.343	408.100	408.053
40	383.548	382.452	381.408	380.434	379.680	379.076	378.589	378.247	378.247
45	351.654	350.221	349.003	347.913	346.962	346.260	345.697	345.355	345.286
50	317.161	315.479	313.948	312.614	311.518	310.573	309.987	309.674	309.552
55	280.940	278.777	276.904	275.251	273.917	272.844	272.090	271.602	271.434
60	243.165	240.439	237.939	235.845	234.146	232.783	231.762	231.252	231.084

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CANDELA TABULATION - (Cont.)

65	204.972	201.376	198.192	195.396	193.111	191.336	190.049	189.248	189.028
70	167.806	163.090	158.740	154.727	151.542	149.066	147.262	146.172	145.806
75	132.414	126.724	121.133	115.762	111.238	107.567	104.847	103.362	102.828
80	100.276	93.908	87.319	80.655	74.704	69.426	65.540	63.301	62.524
85	73.121	66.172	59.044	51.684	44.828	38.431	32.892	29.684	28.780
90	50.390	43.657	36.778	29.632	23.072	16.750	11.014	6.299	3.503
95	33.106	27.202	21.344	15.509	10.428	6.026	2.674	0.922	0.777
100	20.880	16.217	11.815	7.801	4.646	2.361	1.119	0.876	0.000
105	12.789	9.454	6.537	4.060	2.407	1.386	1.096	0.000	0.000
110	7.801	5.614	3.816	2.453	1.699	1.363	1.189	0.000	0.000
115	4.884	3.596	2.627	1.972	1.653	0.000	0.000	0.000	0.000
120	3.428	2.697	2.210	1.920	0.000	0.000	0.000	0.000	0.000
125	2.749	2.407	2.163	0.000	0.000	0.000	0.000	0.000	0.000
130	2.552	2.332	2.140	0.000	0.000	0.000	0.000	0.000	0.000
135	2.482	2.308	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	2.453	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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	187.51	N.A.	11.10
0-30	399.87	N.A.	23.60
0-40	658.56	N.A.	38.80
0-60	1185.21	N.A.	69.90
0-80	1537.7	N.A.	90.60
0-90	1621.42	N.A.	95.60
10-90	1573.06	N.A.	92.70
20-40	471.05	N.A.	27.80
20-50	743.76	N.A.	43.80
40-70	734.23	N.A.	43.30
60-80	352.49	N.A.	20.80
70-80	144.91	N.A.	8.50
80-90	83.72	N.A.	4.90
90-110	60.22	N.A.	3.50
90-120	68.31	N.A.	4.00
90-130	71.65	N.A.	4.20
90-150	74.30	N.A.	4.40
90-180	75.27	N.A.	4.40
110-180	15.05	N.A.	0.90
0-180	1696.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	48.36
10-20	139.15
20-30	212.35
30-40	258.70
40-50	272.71
50-60	253.94
60-70	207.58
70-80	144.91
80-90	83.72
90-100	41.21
100-110	19.01
110-120	8.09
120-130	3.34
130-140	1.66
140-150	0.99
150-160	0.62
160-170	0.32
170-180	0.03

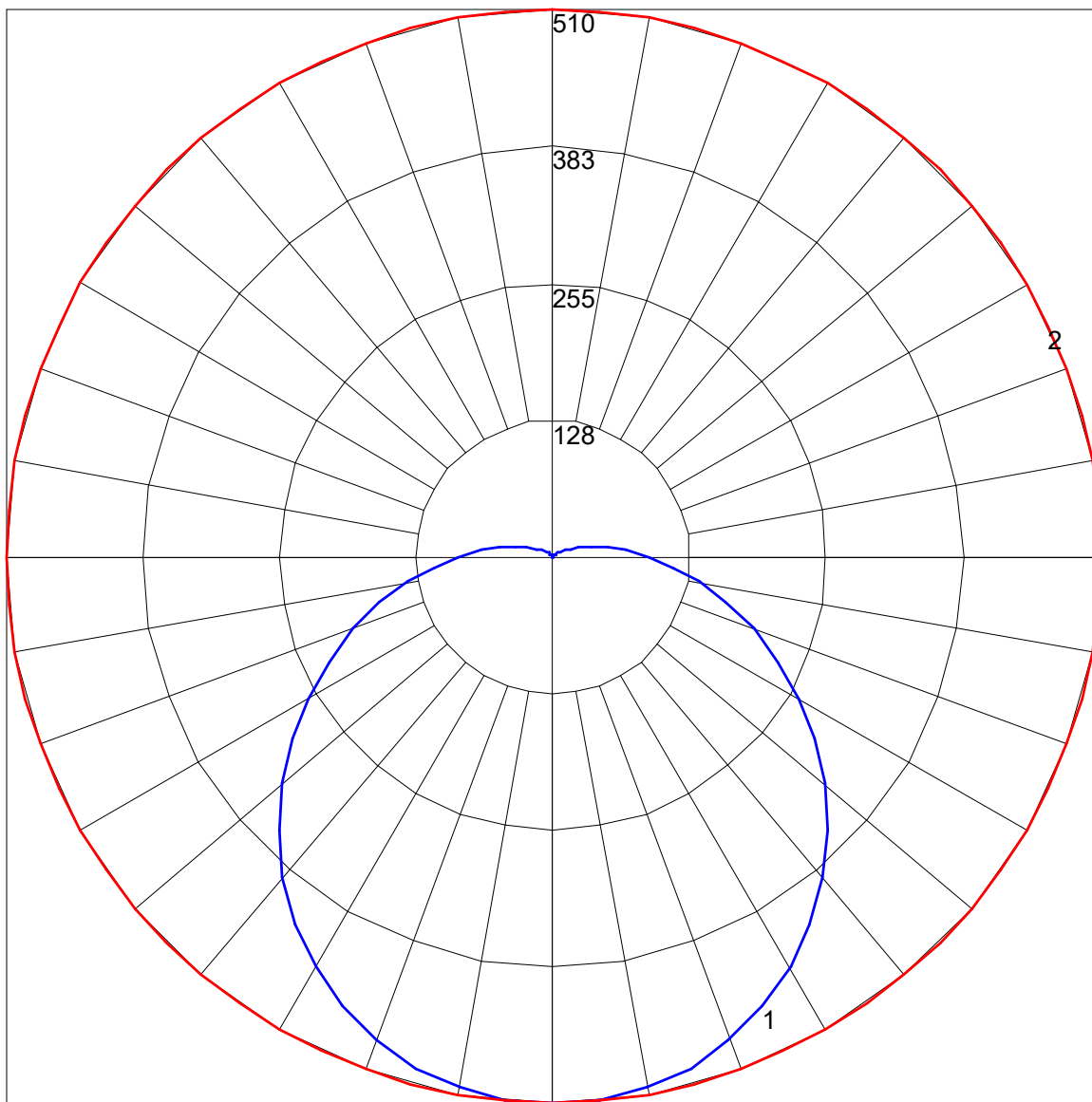
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	106	101	96	91	103	98	93	89	93	89	86	88	85	82	84	81	79	77
2	96	87	79	73	93	85	78	72	80	75	70	76	72	67	73	69	65	63
3	87	76	67	60	84	74	66	59	70	63	58	67	61	56	64	59	55	52
4	80	67	58	51	77	65	57	50	62	55	49	59	53	48	57	51	47	44
5	73	60	50	43	71	58	49	43	56	48	42	53	46	41	51	45	40	38
6	67	54	44	38	65	52	44	37	50	42	37	48	41	36	46	40	35	33
7	62	48	39	33	60	47	39	33	45	38	32	44	37	32	42	36	31	29
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	38	32	28	26
9	54	40	32	26	52	40	32	26	38	31	26	37	30	25	35	30	25	23
10	51	37	29	24	49	37	29	24	35	28	23	34	28	23	33	27	23	21

POLAR GRAPH



Maximum Candela = 510.151 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.)