

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	98	101	103	105
Total Lumens, 4' rail length (1219mm)	3845	3966	4047	4128
Lumens per foot (305mm)	961	992	1012	1032
Input Power (W), 4' rail length (1219mm)	39.4	39.4	39.4	39.4
Watts per foot (305mm)	9.9	9.9	9.9	9.9
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\_HO\_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-SO-35-S9-AL  
[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board,  
[MORE] square profile side diffuse lens, high output  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4047
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	39.36
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	10187	6989	135
55	12008	8594	153
65	12791	9923	204
75	12889	10966	261
85	13214	12267	586

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>
<b>0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>5</b>	43.030	42.961	42.526	41.708	40.542	39.011	37.340	35.374	32.956	30.485
<b>10</b>	95.978	95.613	94.517	92.464	89.697	86.060	81.902	76.873	71.392	65.563
<b>15</b>	158.392	157.592	155.330	151.989	146.804	140.314	132.866	124.045	114.492	104.365
<b>20</b>	229.715	228.479	225.121	219.588	211.775	201.788	190.339	176.993	162.620	147.100
<b>25</b>	308.485	306.797	301.994	294.112	283.255	269.021	253.066	234.604	214.472	193.105
<b>30</b>	392.927	390.821	384.175	373.613	359.101	340.344	319.203	295.208	268.882	241.616
<b>35</b>	480.153	477.456	468.843	455.288	437.192	413.650	387.098	357.118	324.232	290.319
<b>40</b>	565.622	562.055	551.911	535.729	513.265	485.617	453.461	417.356	378.346	337.873
<b>45</b>	643.069	639.206	627.392	608.948	583.422	551.771	514.727	473.297	428.371	381.269
<b>50</b>	705.500	700.976	688.657	668.734	641.242	606.895	567.014	520.921	471.331	419.183
<b>55</b>	746.477	742.406	729.773	709.729	681.645	646.201	604.267	557.461	504.356	448.868
<b>60</b>	763.686	760.049	748.078	728.903	702.003	666.925	626.226	578.602	525.724	470.096
<b>65</b>	758.727	755.160	744.511	727.303	702.212	669.691	631.115	585.597	534.267	479.561
<b>70</b>	736.559	733.723	724.379	708.928	686.169	657.877	622.294	579.925	531.779	479.422
<b>75</b>	704.613	701.846	693.686	680.340	660.574	634.909	603.101	564.891	520.556	471.035
<b>80</b>	670.196	667.795	660.574	648.829	631.185	608.356	580.133	545.055	504.652	458.925
<b>85</b>	638.980	636.875	630.158	619.370	603.397	582.622	556.939	525.358	486.782	445.005
<b>90</b>	614.185	612.149	606.094	595.672	580.499	561.098	536.964	506.705	471.175	431.590
<b>95</b>	596.246	594.140	588.155	578.167	563.429	544.324	521.060	491.968	457.759	419.775
<b>100</b>	583.561	581.665	575.540	565.552	550.745	531.779	508.515	479.718	446.101	409.126
<b>105</b>	573.069	571.242	565.117	554.677	540.096	520.625	497.292	468.408	435.087	398.408
<b>110</b>	562.124	559.932	553.668	543.089	528.142	508.306	484.747	455.863	422.611	386.437
<b>115</b>	547.543	545.212	538.426	527.986	512.830	492.768	469.139	440.411	407.525	372.221
<b>120</b>	527.116	524.854	518.294	507.575	492.403	472.497	449.077	420.941	388.925	354.716
<b>125</b>	500.424	498.319	491.672	481.180	466.303	446.971	424.369	397.155	367.192	334.010
<b>130</b>	467.033	464.980	458.560	448.642	434.356	416.051	394.249	369.089	339.474	302.934
<b>135</b>	427.796	425.900	420.053	410.588	397.451	380.103	360.180	331.018	298.132	266.255
<b>140</b>	383.896	382.139	376.884	368.132	356.248	340.501	313.217	284.629	257.294	230.602
<b>145</b>	336.638	334.950	330.217	322.770	311.843	287.483	263.332	240.433	218.126	197.055
<b>150</b>	286.891	285.586	281.567	274.937	255.171	234.604	216.230	198.064	183.118	168.676
<b>155</b>	235.561	234.395	230.881	217.622	198.656	183.848	170.798	162.777	151.989	138.278
<b>160</b>	182.613	181.656	176.123	158.253	146.143	136.816	132.588	125.002	113.918	99.615
<b>165</b>	125.141	123.836	109.533	100.502	94.656	93.647	90.358	84.094	76.508	70.157
<b>170</b>	70.888	63.527	57.107	55.419	58.638	59.578	57.611	55.576	52.879	49.520
<b>175</b>	35.148	28.362	28.954	31.877	33.617	33.686	33.112	32.086	30.781	29.023
<b>180</b>	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>
<b>0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>5</b>	27.718	24.725	21.663	18.531	15.173	11.884	8.752	6.421	5.690
<b>10</b>	59.073	52.444	45.362	38.280	30.920	23.490	16.043	8.978	5.551
<b>15</b>	93.351	82.111	70.522	58.847	47.258	35.513	23.699	12.615	5.394
<b>20</b>	130.326	113.918	97.075	80.214	63.667	47.485	31.355	16.339	5.394
<b>25</b>	170.503	147.743	125.002	101.947	80.510	59.438	38.941	19.975	5.098
<b>30</b>	212.002	183.118	153.520	124.410	97.353	71.253	46.388	23.490	5.098
<b>35</b>	254.231	218.266	182.091	146.804	113.987	82.841	53.453	26.831	5.098
<b>40</b>	294.773	252.404	210.244	168.310	130.030	93.786	60.013	29.615	4.385
<b>45</b>	332.618	283.985	235.996	188.233	144.907	104.000	65.337	32.312	4.385
<b>50</b>	365.435	311.547	258.599	205.877	157.957	112.456	70.748	34.852	4.089
<b>55</b>	391.622	334.010	276.973	220.319	169.041	119.973	75.916	36.836	4.089
<b>60</b>	410.135	350.349	290.911	231.542	177.724	125.941	79.570	38.437	4.089

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	419.775	359.815	299.593	238.832	183.413	130.256	82.337	40.403	4.089
<b>70</b>	421.741	362.077	303.299	242.852	186.911	132.797	84.007	41.203	3.497
<b>75</b>	417.356	359.902	303.021	244.383	188.077	134.032	85.034	41.708	3.358
<b>80</b>	407.804	354.212	299.663	242.695	187.572	134.119	85.260	41.795	3.202
<b>85</b>	397.155	346.625	294.269	239.424	186.406	133.232	85.034	41.864	3.062
<b>90</b>	386.506	338.169	288.144	234.970	182.752	131.422	84.738	41.429	2.923
<b>95</b>	376.379	329.852	280.697	230.237	179.394	130.100	83.642	41.708	3.358
<b>100</b>	367.488	321.604	273.911	224.025	175.462	127.629	82.267	41.203	3.497
<b>105</b>	357.483	312.852	265.594	218.057	171.007	124.567	80.579	38.732	3.654
<b>110</b>	345.755	302.864	257.798	211.636	165.683	120.913	78.404	33.478	3.932
<b>115</b>	332.410	290.911	247.515	203.319	159.854	116.389	73.515	30.415	4.228
<b>120</b>	316.506	276.764	235.405	193.331	151.102	109.098	65.633	26.030	4.663
<b>125</b>	296.670	256.841	215.638	175.601	136.294	97.718	54.410	22.098	4.959
<b>130</b>	265.159	228.619	192.461	156.356	120.478	84.373	45.953	19.697	5.551
<b>135</b>	233.299	202.084	169.928	136.451	105.809	69.356	40.472	17.644	5.986
<b>140</b>	202.954	176.558	147.239	118.581	87.592	59.369	36.035	16.182	6.125
<b>145</b>	176.488	154.390	125.506	97.144	71.688	50.182	30.989	14.877	6.421
<b>150</b>	151.537	126.968	102.538	79.779	60.604	44.857	28.449	14.947	7.447
<b>155</b>	117.624	98.449	81.902	64.902	51.922	39.098	25.595	15.242	8.456
<b>160</b>	87.365	75.116	63.527	53.609	44.266	34.139	23.560	15.103	9.483
<b>165</b>	63.597	57.176	50.756	43.465	36.175	28.223	21.158	14.372	10.353
<b>170</b>	45.658	41.499	36.905	32.086	26.987	22.168	17.278	12.911	10.945
<b>175</b>	27.057	24.934	22.533	20.201	17.800	15.469	13.120	11.675	11.084
<b>180</b>	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	31.96	N.A.	0.80
0-30	116.81	N.A.	2.90
0-40	289.68	N.A.	7.20
0-60	947.38	N.A.	23.40
0-80	1833.59	N.A.	45.30
0-90	2266.3	N.A.	56.00
10-90	2262.83	N.A.	55.90
20-40	257.72	N.A.	6.40
20-50	537.56	N.A.	13.30
40-70	1094.65	N.A.	27.10
60-80	886.21	N.A.	21.90
70-80	449.26	N.A.	11.10
80-90	432.71	N.A.	10.70
90-110	783.70	N.A.	19.40
90-120	1115.87	N.A.	27.60
90-130	1385.04	N.A.	34.20
90-150	1697.22	N.A.	41.90
90-180	1780.31	N.A.	44.00
110-180	996.61	N.A.	24.60
0-180	4046.61	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	3.48
10-20	28.48
20-30	84.86
30-40	172.86
40-50	279.84
50-60	377.86
60-70	436.95
70-80	449.26
80-90	432.71
90-100	407.28
100-110	376.41
110-120	332.17
120-130	269.16
130-140	192.91
140-150	119.27
150-160	59.99
160-170	20.32
170-180	2.78

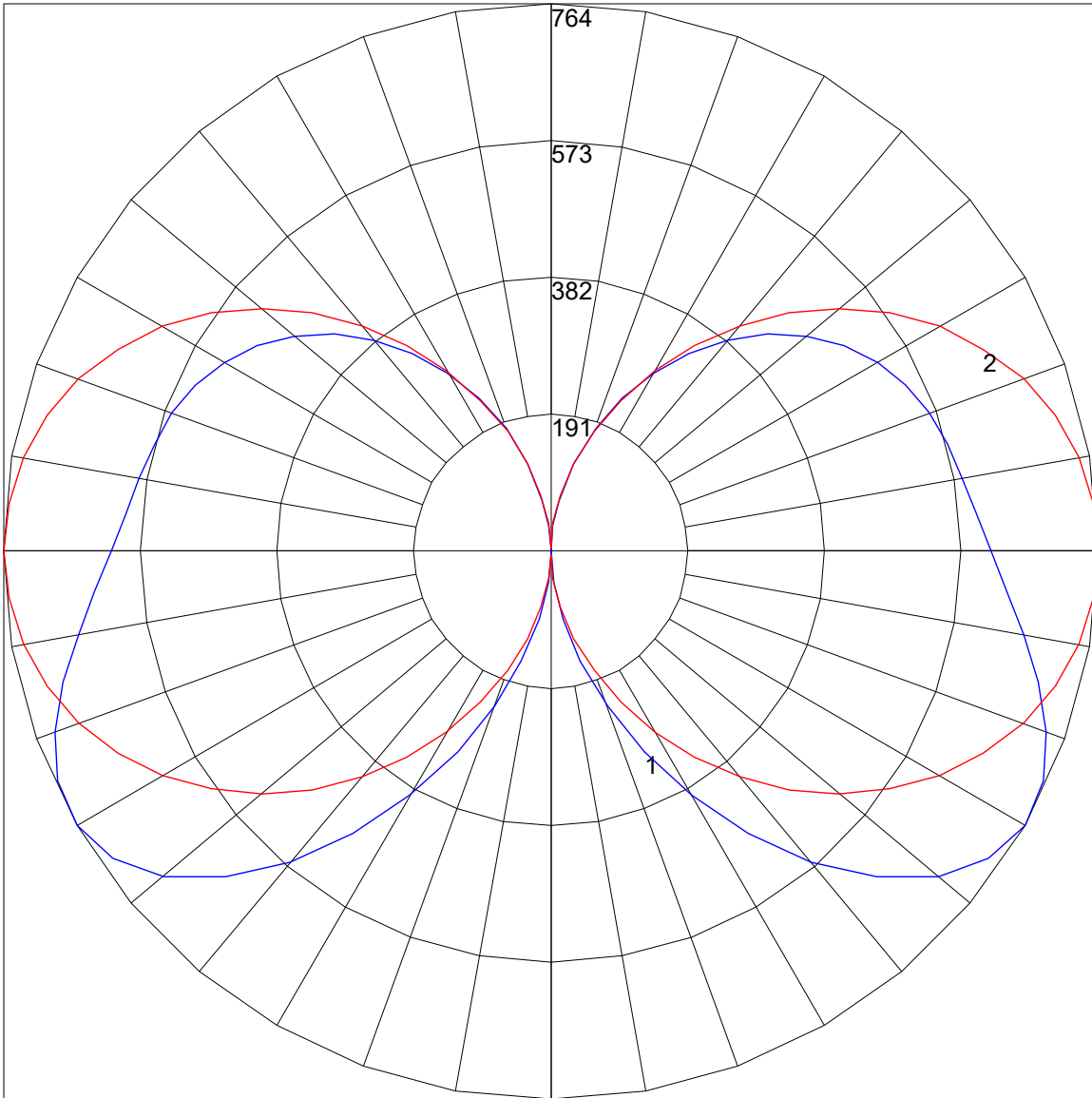
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 763.686 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.)