

## IES Report

# ZipTwo® | 707 | Square 3554, Diffuse | 80 CRI | HO

707-Z2-4-48-XX-XX-X-0-Z-HO-35-J6-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	146	151	154	154
Total Lumens, 4' rail length (1219mm)	5763	5945	6067	6067
Lumens per foot (305mm)	1441	1486	1517	1517
Input Power (W), 4' rail length (1219mm)	39.6	39.6	39.6	39.6
Watts per foot (305mm)	9.9	9.9	9.9	9.9
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\_HO\_35\_J6\_WH.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011206 (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-HO-35-J6-WH

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

[MORE] square 3554, 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	6067
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	153
Total Luminaire Watts	39.55
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	2.04
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.84
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.13 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.18 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12806	12002	13013
55	12602	11612	12338
65	12078	11097	11645
75	11272	10470	10947
85	10389	9890	10946

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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>
<b>0</b>	723.492	723.492	723.492	723.492	723.492	723.492	723.492	723.492	723.492	723.492
<b>5</b>	738.613	738.613	738.160	737.516	736.490	735.394	734.089	732.627	730.939	729.269
<b>10</b>	788.342	787.976	786.811	784.688	781.556	777.693	773.239	767.914	761.946	755.386
<b>15</b>	836.905	836.261	834.139	830.641	825.456	819.122	811.536	802.714	792.796	782.356
<b>20</b>	882.859	881.832	878.630	873.584	866.085	856.898	846.179	833.042	818.757	803.219
<b>25</b>	926.167	924.497	920.199	913.343	903.269	890.810	875.846	858.499	839.393	819.192
<b>30</b>	965.561	963.577	958.114	948.996	936.242	920.634	901.598	879.570	855.210	829.771
<b>35</b>	999.682	997.281	990.356	979.342	963.508	944.037	921.504	894.604	865.128	834.434
<b>40</b>	1026.670	1023.903	1015.951	1002.971	984.370	961.402	934.641	903.425	868.782	833.269
<b>45</b>	1044.174	1040.955	1031.924	1016.960	995.959	969.859	939.513	904.522	865.354	825.247
<b>50</b>	1049.272	1045.914	1036.066	1020.179	996.846	968.258	935.076	896.570	854.270	809.935
<b>55</b>	1040.677	1037.318	1027.105	1010.105	985.971	955.190	920.408	879.274	834.139	787.037
<b>60</b>	1017.326	1014.124	1003.545	986.128	961.681	930.395	894.377	852.008	805.115	756.326
<b>65</b>	979.707	976.279	966.205	948.996	924.932	893.942	858.133	815.399	767.914	718.411
<b>70</b>	929.230	926.098	916.336	900.276	877.308	847.119	811.971	770.037	723.283	674.059
<b>75</b>	870.017	867.025	858.064	842.891	821.019	792.500	758.814	718.690	673.258	625.356
<b>80</b>	804.524	801.688	793.597	779.590	759.162	732.627	701.046	663.044	619.875	575.540
<b>85</b>	736.716	734.367	726.433	713.522	694.556	670.492	640.738	604.998	567.884	523.253
<b>90</b>	674.146	671.884	664.663	652.778	635.848	613.019	585.527	554.468	516.902	474.602
<b>95</b>	631.115	629.062	622.937	612.149	596.611	577.436	552.502	521.426	485.617	446.675
<b>100</b>	599.604	597.864	592.383	582.761	569.276	550.310	526.889	498.527	464.476	428.075
<b>105</b>	573.782	572.042	566.579	557.096	543.228	525.289	502.756	475.994	445.440	410.588
<b>110</b>	544.185	542.428	537.329	528.212	515.371	497.953	476.951	451.791	422.472	390.091
<b>115</b>	513.996	512.308	507.349	498.962	486.713	470.374	450.608	426.474	399.052	368.062
<b>120</b>	482.780	481.249	476.725	468.773	456.959	441.421	422.837	400.148	373.891	345.390
<b>125</b>	450.399	448.937	444.570	436.984	425.743	411.232	393.884	372.795	348.157	321.465
<b>130</b>	416.260	414.729	410.501	403.436	392.927	379.651	363.469	343.633	320.804	292.076
<b>135</b>	379.946	378.711	374.848	368.201	358.370	346.121	330.791	309.650	282.663	255.763
<b>140</b>	342.032	340.640	337.073	330.791	321.970	310.225	290.615	266.481	243.217	220.388
<b>145</b>	301.768	300.602	297.175	291.554	283.463	266.116	244.957	225.347	206.173	187.711
<b>150</b>	259.765	258.599	255.676	250.717	236.936	218.196	201.788	186.545	173.426	161.315
<b>155</b>	216.456	215.569	212.872	204.485	186.702	173.060	161.176	153.520	144.611	133.684
<b>160</b>	171.529	170.798	167.510	151.032	139.148	130.030	125.732	120.182	111.795	100.137
<b>165</b>	122.948	122.148	110.125	100.850	94.586	93.647	90.654	85.469	76.943	70.383
<b>170</b>	75.986	69.061	60.100	56.672	58.412	59.003	57.037	54.253	51.417	47.833
<b>175</b>	37.480	29.249	29.389	32.451	33.686	33.251	32.677	32.016	30.850	29.615
<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>	723.492	723.492	723.492	723.492	723.492	723.492	723.492	723.492	723.492
<b>5</b>	727.668	726.137	724.606	723.144	722.117	721.178	720.517	720.308	720.517
<b>10</b>	748.304	741.083	733.723	726.572	720.812	716.219	712.426	710.599	710.459
<b>15</b>	770.472	757.996	745.468	731.827	719.055	707.240	698.854	693.616	692.085
<b>20</b>	786.515	769.167	751.436	732.697	713.957	695.287	679.383	669.987	667.133
<b>25</b>	796.798	774.126	751.001	726.798	702.803	678.374	655.615	640.511	635.639
<b>30</b>	802.123	773.465	744.877	714.827	685.873	656.189	628.331	606.390	598.734
<b>35</b>	800.887	767.044	732.923	697.479	663.636	628.853	596.542	568.023	557.740
<b>40</b>	794.971	755.160	715.923	675.224	636.005	597.707	561.098	526.820	512.674
<b>45</b>	781.556	737.429	692.729	648.028	604.354	562.264	521.426	483.720	464.980
<b>50</b>	762.155	713.226	665.167	615.873	569.345	523.392	479.126	438.358	414.955
<b>55</b>	736.055	684.499	631.846	580.133	530.404	481.458	434.722	391.622	364.199
<b>60</b>	703.308	649.490	594.871	541.853	488.679	437.349	388.699	343.702	312.278

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	663.636	609.748	554.468	498.893	444.344	391.396	341.162	294.704	260.930
<b>70</b>	619.301	565.761	509.611	453.531	398.982	344.503	292.738	246.210	209.600
<b>75</b>	572.182	518.729	463.084	407.003	351.358	298.567	246.123	198.725	160.010
<b>80</b>	524.279	471.175	417.356	362.668	307.528	253.274	202.014	154.529	113.483
<b>85</b>	475.055	423.934	370.829	314.975	262.027	208.278	157.748	111.064	69.861
<b>90</b>	427.570	378.050	326.424	271.945	219.431	167.214	116.458	69.722	28.727
<b>95</b>	401.905	356.178	307.162	257.729	206.973	156.861	108.071	62.710	21.872
<b>100</b>	387.829	343.337	296.809	247.376	199.456	150.527	104.644	58.568	21.437
<b>105</b>	371.420	329.695	285.586	238.258	192.305	146.143	98.884	54.479	20.706
<b>110</b>	353.324	313.879	272.171	227.383	183.779	139.287	94.447	50.182	21.298
<b>115</b>	333.349	296.966	256.998	215.499	174.000	132.362	88.757	45.292	21.002
<b>120</b>	313.217	277.495	241.390	203.389	163.717	123.679	81.380	39.446	20.567
<b>125</b>	291.415	257.363	221.624	183.848	147.465	108.959	70.296	34.713	20.428
<b>130</b>	260.635	227.749	195.663	162.481	129.439	94.151	59.804	30.050	19.975
<b>135</b>	227.609	199.752	171.373	141.549	112.021	80.301	50.095	26.831	19.401
<b>140</b>	196.533	172.904	148.840	121.504	94.291	67.529	42.073	24.430	18.809
<b>145</b>	170.207	151.693	125.802	100.711	78.248	54.619	35.809	22.168	18.374
<b>150</b>	146.578	125.210	103.843	84.164	64.328	47.119	32.677	21.506	18.670
<b>155</b>	116.249	99.545	85.034	67.964	53.679	41.134	29.458	21.298	18.809
<b>160</b>	89.053	76.717	64.832	54.044	44.266	34.643	25.822	20.341	18.374
<b>165</b>	63.527	56.585	49.816	42.073	35.374	28.292	22.829	19.401	17.939
<b>170</b>	43.970	40.403	36.383	32.086	27.196	23.490	20.706	19.036	18.235
<b>175</b>	27.927	26.187	24.134	22.324	21.002	19.766	18.896	18.374	18.235
<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	289.77	N.A.	4.80
0-30	661.07	N.A.	10.90
0-40	1170.58	N.A.	19.30
0-60	2463.67	N.A.	40.60
0-80	3757.31	N.A.	61.90
0-90	4279.74	N.A.	70.50
10-90	4209.38	N.A.	69.40
20-40	880.81	N.A.	14.50
20-50	1497.72	N.A.	24.70
40-70	1968.75	N.A.	32.50
60-80	1293.64	N.A.	21.30
70-80	617.99	N.A.	10.20
80-90	522.43	N.A.	8.60
90-110	828.72	N.A.	13.70
90-120	1155.71	N.A.	19.00
90-130	1412.37	N.A.	23.30
90-150	1706.37	N.A.	28.10
90-180	1787.09	N.A.	29.50
110-180	958.37	N.A.	15.80
0-180	6066.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	70.36
10-20	219.41
20-30	371.30
30-40	509.51
40-50	616.91
50-60	676.18
60-70	675.65
70-80	617.99
80-90	522.43
90-100	440.48
100-110	388.24
110-120	326.99
120-130	256.67
130-140	181.58
140-150	112.42
150-160	57.58
160-170	20.24
170-180	2.90

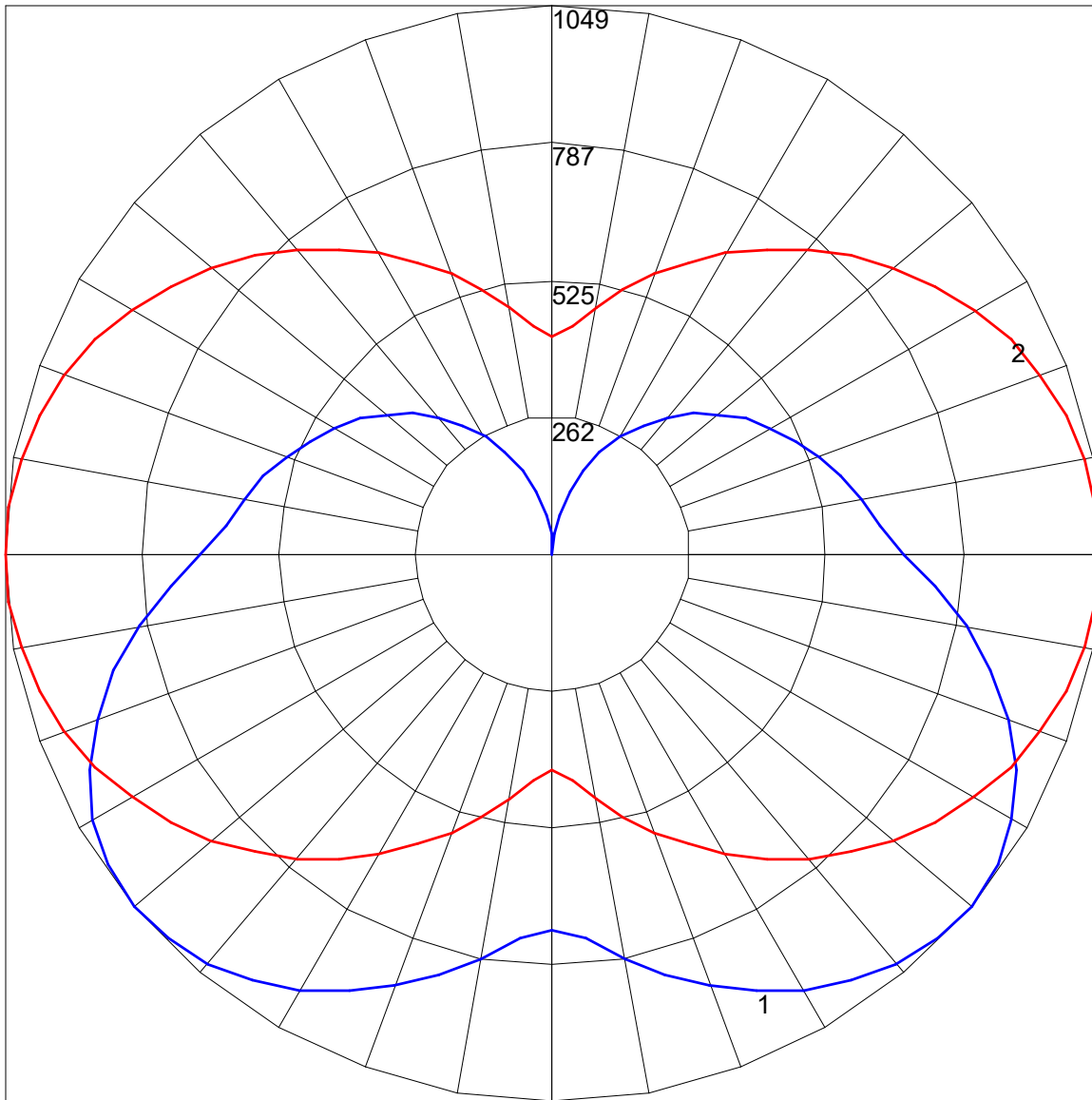
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	112	112	112	112	106	106	106	106	95	95	95	84	84	84	75	75	75	71
1	98	92	86	81	92	87	82	77	77	73	69	68	65	62	60	57	55	51
2	88	78	70	63	82	73	66	60	65	59	54	57	52	48	50	46	43	39
3	79	67	58	50	74	63	55	48	56	49	43	49	43	39	43	38	34	31
4	71	58	49	41	67	55	46	39	49	41	36	43	37	32	37	32	28	25
5	65	51	42	35	61	48	40	33	43	36	30	38	32	27	33	28	24	21
6	60	46	36	29	56	43	34	28	38	31	26	34	28	23	30	25	21	18
7	55	41	32	25	52	39	30	24	35	27	22	31	24	20	27	22	18	15
8	51	37	28	22	48	35	27	21	31	24	19	28	22	18	24	19	16	13
9	48	34	25	20	45	32	24	19	29	22	17	25	20	16	22	18	14	12
10	44	31	23	17	42	29	22	17	26	20	15	23	18	14	21	16	12	10

POLAR GRAPH



Maximum Candela = 1049.272 Located At Horizontal Angle = 0, Vertical Angle = 50  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (50) (Through Max. Cd.)