

## IES Report

# ZipTwo® | 707 | Square 3572, Side Diffuse | 80 CRI | HO

707-Z2-4-48-XX-XX-X-0-Z-HO-35-H9-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	138	142	145	145
Total Lumens, 4' rail length (1219mm)	5429	5601	5715	5715
Lumens per foot (305mm)	1357	1400	1429	1429
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\_H9\_WH.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011202 (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-H9-WH

[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board, square 3572,

[MORE] 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	5715
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	39.55
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)	0.13 ft
Luminous Width (90-270)	3.99 ft
Luminous Height	0.22 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9122	6984	864
55	10112	8022	831
65	10616	8694	710
75	10788	9423	776
85	10919	10131	1384

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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>	45.170	45.170	45.170	45.170	45.170	45.170	45.170	45.170	45.170	45.170
<b>5</b>	70.157	70.018	69.426	68.260	66.364	64.032	61.335	58.481	55.645	53.157
<b>10</b>	157.522	156.948	155.260	152.198	147.830	142.280	135.650	127.768	119.016	109.690
<b>15</b>	253.066	252.039	248.907	243.722	236.135	226.513	215.360	202.292	187.642	172.103
<b>20</b>	354.421	352.820	348.226	340.570	329.417	315.479	299.367	280.262	258.964	236.797
<b>25</b>	459.586	457.324	450.834	440.690	425.534	407.230	385.636	360.041	331.748	302.429
<b>30</b>	562.420	559.723	551.406	538.426	519.599	497.588	470.374	438.950	403.280	366.531
<b>35</b>	661.739	658.538	649.055	633.151	610.984	583.196	549.649	513.770	473.071	429.171
<b>40</b>	755.090	751.297	739.848	721.247	695.791	661.879	626.957	583.057	530.683	485.112
<b>45</b>	837.636	833.269	820.567	800.522	770.907	735.254	693.616	645.766	591.513	532.510
<b>50</b>	905.322	900.728	886.652	864.623	833.634	794.902	749.470	697.253	641.834	579.768
<b>55</b>	955.921	950.962	936.746	913.483	881.902	841.064	793.875	738.386	676.547	613.541
<b>60</b>	987.572	982.769	968.832	946.090	913.552	872.140	823.925	767.114	703.378	637.310
<b>65</b>	1001.718	997.281	983.344	960.445	928.360	888.461	840.698	784.044	721.108	646.862
<b>70</b>	999.821	995.819	982.247	960.671	930.552	891.454	844.422	789.577	727.807	661.600
<b>75</b>	985.240	981.377	969.197	949.153	920.477	882.998	838.732	785.349	724.675	660.139
<b>80</b>	962.046	958.253	947.030	928.220	900.728	866.381	824.882	773.830	715.853	653.422
<b>85</b>	933.754	930.395	919.468	902.173	877.238	844.857	804.019	757.422	703.673	644.096
<b>90</b>	904.000	901.094	890.723	874.907	851.278	820.497	783.087	737.516	684.777	621.772
<b>95</b>	874.246	871.114	861.857	846.458	823.716	794.536	759.092	715.627	665.098	607.782
<b>100</b>	844.648	841.725	832.381	817.504	795.702	767.549	733.567	692.294	644.600	590.713
<b>105</b>	815.173	812.336	803.515	788.777	768.280	740.857	707.832	667.568	621.772	573.574
<b>110</b>	784.549	781.625	773.239	759.092	738.682	711.921	679.975	640.964	592.975	549.579
<b>115</b>	751.436	748.670	740.283	725.980	705.796	680.549	649.490	612.010	571.677	524.123
<b>120</b>	714.827	712.199	703.604	690.101	670.857	645.766	615.438	581.665	542.132	496.857
<b>125</b>	673.989	671.222	663.340	650.429	631.481	607.486	579.629	546.743	507.506	465.346
<b>130</b>	627.896	625.426	617.700	605.433	588.659	567.014	540.096	508.306	470.305	426.631
<b>135</b>	579.037	576.845	569.989	558.627	542.062	520.852	495.326	461.987	420.506	377.841
<b>140</b>	524.784	522.522	515.962	505.174	490.210	470.461	439.976	401.679	364.199	327.816
<b>145</b>	464.110	462.422	456.524	446.971	433.190	406.708	373.526	341.075	309.859	280.262
<b>150</b>	400.374	398.843	393.884	385.340	364.930	335.176	308.920	283.533	261.800	242.191
<b>155</b>	333.854	332.688	328.460	315.914	288.649	266.690	247.950	234.308	219.518	201.857
<b>160</b>	264.428	263.332	258.964	234.308	216.004	202.014	194.567	184.579	171.094	151.328
<b>165</b>	189.764	188.668	171.964	157.383	148.039	145.046	139.583	131.057	117.276	105.966
<b>170</b>	116.545	107.358	93.055	87.070	88.462	88.827	86.269	81.380	76.421	70.957
<b>175</b>	53.522	40.264	40.107	44.196	47.032	46.823	45.866	44.335	42.230	39.968
<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>	45.170	45.170	45.170	45.170	45.170	45.170	45.170	45.170	45.170
<b>5</b>	50.912	49.294	47.833	46.893	46.232	45.953	45.727	45.588	45.797
<b>10</b>	99.110	88.601	77.308	65.633	55.141	49.016	46.023	45.223	45.362
<b>15</b>	155.051	137.321	118.877	100.050	80.945	61.770	48.285	44.561	44.492
<b>20</b>	212.367	187.137	161.089	134.693	108.158	81.606	55.645	43.831	43.030
<b>25</b>	270.118	237.162	203.319	169.041	135.285	101.007	67.895	43.604	41.429
<b>30</b>	327.590	285.430	244.522	201.857	160.010	118.442	79.414	44.126	39.098
<b>35</b>	380.973	332.323	283.168	232.133	186.545	136.155	93.925	45.658	36.749
<b>40</b>	430.424	375.422	318.246	260.722	205.946	152.702	102.382	51.487	34.139
<b>45</b>	475.194	412.989	350.123	288.127	226.513	169.841	109.533	55.349	31.076
<b>50</b>	514.796	446.971	378.781	308.258	242.556	177.497	115.153	57.107	26.396
<b>55</b>	541.853	473.593	401.018	326.267	256.128	188.599	121.052	60.830	24.795
<b>60</b>	558.766	491.306	417.078	342.328	267.943	194.932	126.898	63.893	21.437

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	578.968	507.419	430.128	349.984	274.642	199.456	130.256	64.467	16.182
<b>70</b>	585.162	514.727	437.123	355.882	279.601	204.119	137.686	64.397	14.877
<b>75</b>	582.169	515.371	439.385	359.449	281.793	207.043	138.991	67.025	11.675
<b>80</b>	581.369	512.604	437.854	359.101	281.636	204.920	137.982	66.955	8.613
<b>85</b>	575.836	507.210	433.121	354.421	279.392	203.476	135.059	64.537	9.483
<b>90</b>	564.961	497.362	425.534	348.731	275.372	203.110	135.650	65.789	8.161
<b>95</b>	550.310	482.780	414.364	343.337	270.918	198.151	134.258	64.763	6.856
<b>100</b>	534.563	470.670	403.506	331.522	262.531	191.939	132.066	61.178	5.986
<b>105</b>	514.796	454.488	390.021	320.665	254.231	187.050	130.256	57.907	5.690
<b>110</b>	493.203	434.356	373.456	310.225	245.549	180.421	124.114	52.652	6.125
<b>115</b>	472.062	415.982	357.118	294.269	233.734	171.529	115.223	45.362	7.447
<b>120</b>	446.536	393.518	337.943	278.574	221.328	162.620	106.471	36.905	8.752
<b>125</b>	417.513	365.870	312.278	256.041	201.857	150.806	85.538	33.112	10.057
<b>130</b>	377.754	327.955	278.661	228.184	178.750	127.629	72.419	29.093	11.084
<b>135</b>	332.984	289.745	246.123	200.987	155.921	107.497	59.647	24.795	11.954
<b>140</b>	289.449	253.205	216.230	174.070	132.066	90.132	50.095	22.463	12.841
<b>145</b>	252.404	223.747	183.553	145.777	108.437	73.150	42.874	20.271	13.711
<b>150</b>	218.492	186.180	152.059	120.182	89.558	61.474	39.011	19.906	15.608
<b>155</b>	174.157	147.308	122.513	97.214	74.455	53.818	34.643	20.932	17.939
<b>160</b>	132.066	113.396	94.291	77.743	61.631	45.362	30.920	22.237	20.567
<b>165</b>	94.291	83.207	72.123	60.308	48.059	36.035	27.127	23.333	22.603
<b>170</b>	64.537	57.681	50.390	42.734	35.009	28.658	25.456	24.569	24.360
<b>175</b>	37.114	34.208	31.076	28.727	27.283	26.187	25.891	25.822	25.665
<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	53.84	N.A.	0.90
0-30	184.57	N.A.	3.20
0-40	434.11	N.A.	7.60
0-60	1325.04	N.A.	23.20
0-80	2551.9	N.A.	44.70
0-90	3182.13	N.A.	55.70
10-90	3175.2	N.A.	55.60
20-40	380.26	N.A.	6.70
20-50	764.30	N.A.	13.40
40-70	1484.41	N.A.	26.00
60-80	1226.87	N.A.	21.50
70-80	633.39	N.A.	11.10
80-90	630.22	N.A.	11.00
90-110	1136.91	N.A.	19.90
90-120	1602.13	N.A.	28.00
90-130	1974.75	N.A.	34.60
90-150	2411.55	N.A.	42.20
90-180	2532.69	N.A.	44.30
110-180	1395.78	N.A.	24.40
0-180	5714.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	6.92
10-20	46.92
20-30	130.72
30-40	249.54
40-50	384.04
50-60	506.89
60-70	593.48
70-80	633.39
80-90	630.22
90-100	596.44
100-110	540.47
110-120	465.22
120-130	372.63
130-140	268.45
140-150	168.35
150-160	86.64
160-170	30.39
170-180	4.11

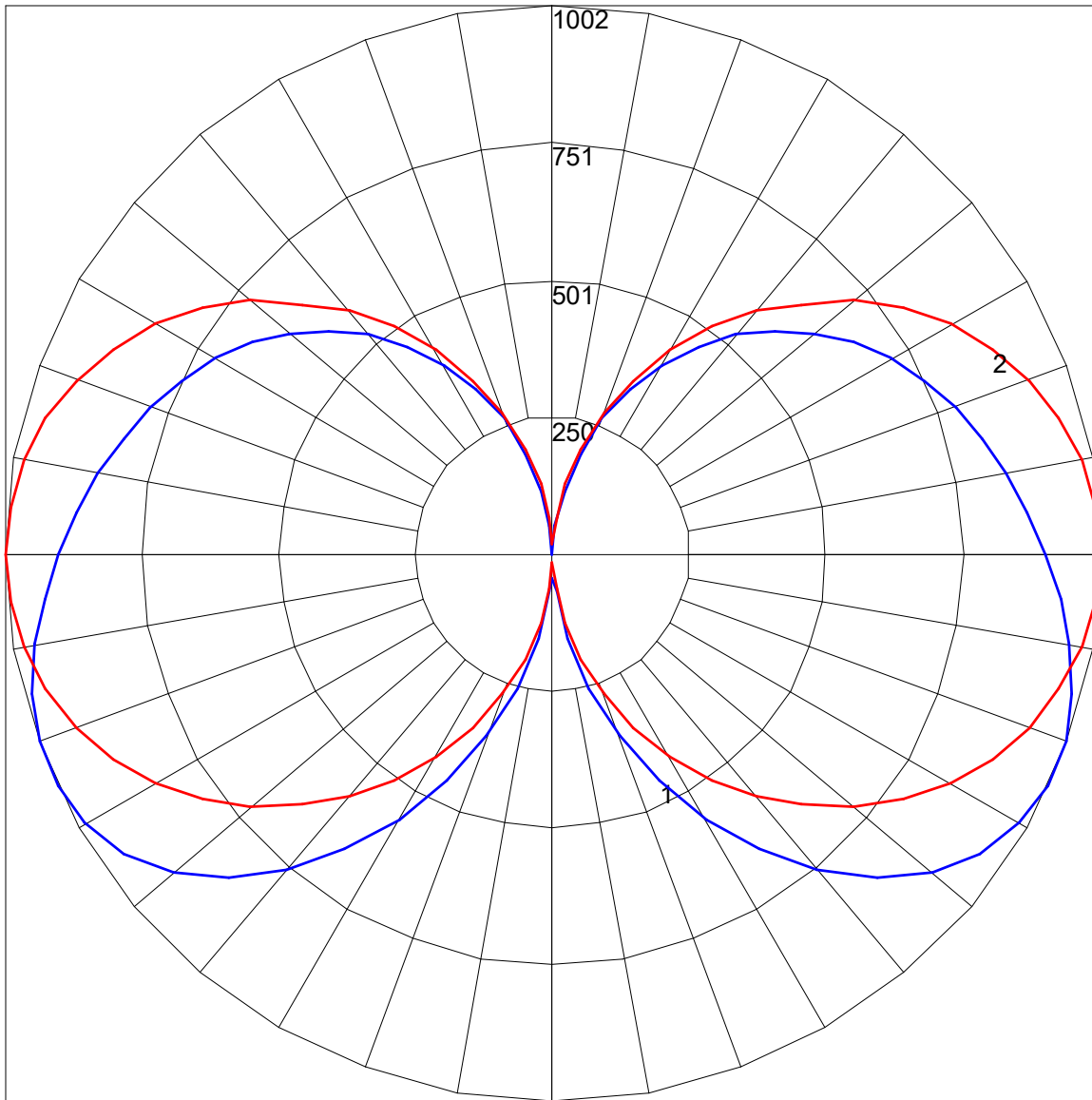
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	56
1	93	86	80	75	86	80	74	69	67	63	59	56	52	49	45	43	40	35
2	83	72	64	56	75	66	59	52	55	49	44	45	41	37	36	33	29	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	23	26	21	18	14
5	61	46	36	29	55	43	34	27	35	28	23	29	23	18	22	18	14	11
6	55	41	31	24	50	38	29	23	31	24	19	25	20	15	20	15	12	9
7	51	37	27	21	46	34	25	19	28	21	16	23	17	13	18	13	10	7
8	47	33	24	18	43	30	22	16	25	18	14	21	15	11	16	12	8	6
9	44	30	21	15	40	27	20	14	23	16	12	19	13	10	15	10	7	5
10	41	27	19	14	37	25	17	12	21	15	10	17	12	8	13	9	6	4

POLAR GRAPH



Maximum Candela = 1001.718 Located At Horizontal Angle = 0, Vertical Angle = 65  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)