

## IES Report

# ZipTwo® | 707 | Round 3515, Diffuse | 90 CRI | LO

707-Z2-4-48-XX-XX-X-0-Z-LO-359-S4-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	94	97	99	100
Total Lumens, 4' rail length (1219mm)	1390	1433	1463	1477
Lumens per foot (305mm)	347	358	366	369
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	94	94	94	94

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\_359\_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-359-S4-AL

[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, zipper board, round 3515, diffuse (WH) 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	1463
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
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	10795	10523	10288
55	10941	10404	9971
65	11523	10412	9424
75	13627	11240	8371
85	27186	19310	6957

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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>	439.785	439.785	439.785	439.785	439.785	439.785	439.785	439.785	439.785	439.785
<b>5</b>	438.570	438.590	438.545	438.545	438.525	438.525	438.505	438.485	438.485	438.570
<b>10</b>	433.830	433.830	433.855	433.790	433.790	433.725	433.645	433.580	433.515	433.435
<b>15</b>	425.910	425.910	425.845	425.785	425.700	425.555	425.385	425.305	425.135	424.990
<b>20</b>	414.425	414.470	414.365	414.300	414.070	413.860	413.610	413.335	413.045	412.730
<b>25</b>	399.800	399.755	399.630	399.465	399.085	398.815	398.435	397.995	397.555	397.115
<b>30</b>	381.945	381.905	381.735	381.485	381.085	380.625	380.080	379.470	378.820	378.235
<b>35</b>	361.200	361.200	360.905	360.570	360.045	359.440	358.705	357.970	357.155	356.335
<b>40</b>	337.980	337.855	337.560	337.120	336.450	335.695	334.775	333.830	332.760	331.715
<b>45</b>	312.330	312.205	311.825	311.220	310.380	309.355	308.240	307.005	305.685	304.450
<b>50</b>	285.045	284.875	284.395	283.620	282.570	281.250	279.785	278.255	276.535	275.025
<b>55</b>	256.755	256.585	255.955	255.035	253.735	252.100	250.255	248.330	246.255	244.160
<b>60</b>	228.000	227.790	227.015	225.800	224.250	222.175	219.935	217.460	214.840	212.200
<b>65</b>	199.250	198.915	198.095	196.650	194.745	192.355	189.590	186.570	183.305	180.035
<b>70</b>	171.170	170.835	169.785	168.300	166.160	163.395	160.210	156.645	152.750	148.705
<b>75</b>	144.305	143.970	142.855	141.140	138.710	135.710	132.190	128.165	123.745	119.030
<b>80</b>	119.115	118.780	117.585	115.760	113.205	109.955	106.185	101.910	97.050	91.890
<b>85</b>	96.945	96.565	95.330	93.505	90.865	87.575	83.655	79.215	74.205	68.860
<b>90</b>	76.450	76.115	74.940	73.115	70.560	67.270	63.520	59.160	54.295	49.100
<b>95</b>	58.760	58.425	57.380	55.660	53.310	50.230	46.730	42.710	38.310	33.595
<b>100</b>	43.965	43.675	42.750	41.180	39.060	36.420	33.360	29.865	26.070	22.130
<b>105</b>	31.980	31.730	30.890	29.590	27.810	25.630	23.075	20.225	17.185	14.125
<b>110</b>	22.590	22.380	21.710	20.685	19.240	17.500	15.570	13.330	11.085	8.845
<b>115</b>	15.465	15.300	14.795	14.000	12.930	11.650	10.225	8.655	7.105	5.575
<b>120</b>	10.310	10.205	9.830	9.305	8.550	7.630	6.665	5.635	4.650	3.710
<b>125</b>	6.830	6.770	6.520	6.180	5.700	5.115	4.505	3.875	3.310	2.810
<b>130</b>	4.695	4.650	4.485	4.255	4.005	3.625	3.330	2.975	2.660	2.410
<b>135</b>	3.480	3.435	3.395	3.250	3.125	2.955	2.785	2.600	2.450	2.285
<b>140</b>	2.975	2.935	2.890	2.850	2.765	2.685	2.535	2.430	2.325	2.200
<b>145</b>	2.725	2.725	2.725	2.685	2.620	2.535	2.410	2.325	2.245	2.180
<b>150</b>	2.600	2.580	2.555	2.555	2.450	2.410	2.325	2.265	2.245	2.200
<b>155</b>	2.475	2.475	2.475	2.410	2.345	2.325	2.285	2.285	2.245	0.000
<b>160</b>	2.430	2.390	2.370	2.325	2.305	2.285	2.285	2.265	2.200	0.000
<b>165</b>	2.305	2.325	2.285	2.265	2.265	2.265	2.265	2.245	0.000	0.000
<b>170</b>	2.265	2.265	2.265	2.265	2.265	2.265	2.245	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<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>	439.785	439.785	439.785	439.785	439.785	439.785	439.785	439.785	439.785
<b>5</b>	438.505	438.465	438.420	438.420	438.420	438.420	438.400	438.420	438.485
<b>10</b>	433.370	433.285	433.265	433.225	433.140	433.120	433.140	432.995	433.075
<b>15</b>	424.800	424.610	424.465	424.340	424.215	424.085	424.045	424.025	424.025
<b>20</b>	412.435	412.140	411.870	411.660	411.410	411.155	411.075	411.075	410.950
<b>25</b>	396.655	396.215	395.755	395.375	395.040	394.835	394.580	394.560	394.520
<b>30</b>	377.605	376.955	376.410	375.910	375.470	375.155	374.860	374.695	374.650
<b>35</b>	355.435	354.725	353.970	353.275	352.755	352.355	352.020	351.810	351.770
<b>40</b>	330.645	329.700	328.800	327.960	327.310	326.790	326.370	326.075	326.075
<b>45</b>	303.150	301.915	300.865	299.925	299.105	298.500	298.015	297.720	297.660
<b>50</b>	273.415	271.965	270.645	269.495	268.550	267.735	267.230	266.960	266.855
<b>55</b>	242.190	240.325	238.710	237.285	236.135	235.210	234.560	234.140	233.995
<b>60</b>	209.625	207.275	205.120	203.315	201.850	200.675	199.795	199.355	199.210

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	176.700	173.600	170.855	168.445	166.475	164.945	163.835	163.145	162.955
<b>70</b>	144.660	140.595	136.845	133.385	130.640	128.505	126.950	126.010	125.695
<b>75</b>	114.150	109.245	104.425	99.795	95.895	92.730	90.385	89.105	88.645
<b>80</b>	86.445	80.955	75.275	69.530	64.400	59.850	56.500	54.570	53.900
<b>85</b>	63.035	57.045	50.900	44.555	38.645	33.130	28.355	25.590	24.810
<b>90</b>	43.440	37.635	31.705	25.545	19.890	14.440	9.495	5.430	3.020
<b>95</b>	28.540	23.450	18.400	13.370	8.990	5.195	2.305	0.795	0.670
<b>100</b>	18.000	13.980	10.185	6.725	4.005	2.035	0.965	0.755	0.000
<b>105</b>	11.025	8.150	5.635	3.500	2.075	1.195	0.945	0.000	0.000
<b>110</b>	6.725	4.840	3.290	2.115	1.465	1.175	1.025	0.000	0.000
<b>115</b>	4.210	3.100	2.265	1.700	1.425	0.000	0.000	0.000	0.000
<b>120</b>	2.955	2.325	1.905	1.655	0.000	0.000	0.000	0.000	0.000
<b>125</b>	2.370	2.075	1.865	0.000	0.000	0.000	0.000	0.000	0.000
<b>130</b>	2.200	2.010	1.845	0.000	0.000	0.000	0.000	0.000	0.000
<b>135</b>	2.140	1.990	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>140</b>	2.115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>145</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>150</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>155</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>160</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>170</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<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	161.65	N.A.	11.10
0-30	344.71	N.A.	23.60
0-40	567.73	N.A.	38.80
0-60	1021.73	N.A.	69.90
0-80	1325.6	N.A.	90.60
0-90	1397.77	N.A.	95.60
10-90	1356.08	N.A.	92.70
20-40	406.08	N.A.	27.80
20-50	641.17	N.A.	43.80
40-70	632.95	N.A.	43.30
60-80	303.87	N.A.	20.80
70-80	124.92	N.A.	8.50
80-90	72.17	N.A.	4.90
90-110	51.92	N.A.	3.50
90-120	58.89	N.A.	4.00
90-130	61.77	N.A.	4.20
90-150	64.05	N.A.	4.40
90-180	64.89	N.A.	4.40
110-180	12.97	N.A.	0.90
0-180	1462.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	41.69
10-20	119.96
20-30	183.06
30-40	223.01
40-50	235.09
50-60	218.91
60-70	178.95
70-80	124.92
80-90	72.17
90-100	35.53
100-110	16.39
110-120	6.97
120-130	2.88
130-140	1.43
140-150	0.86
150-160	0.53
160-170	0.27
170-180	0.03

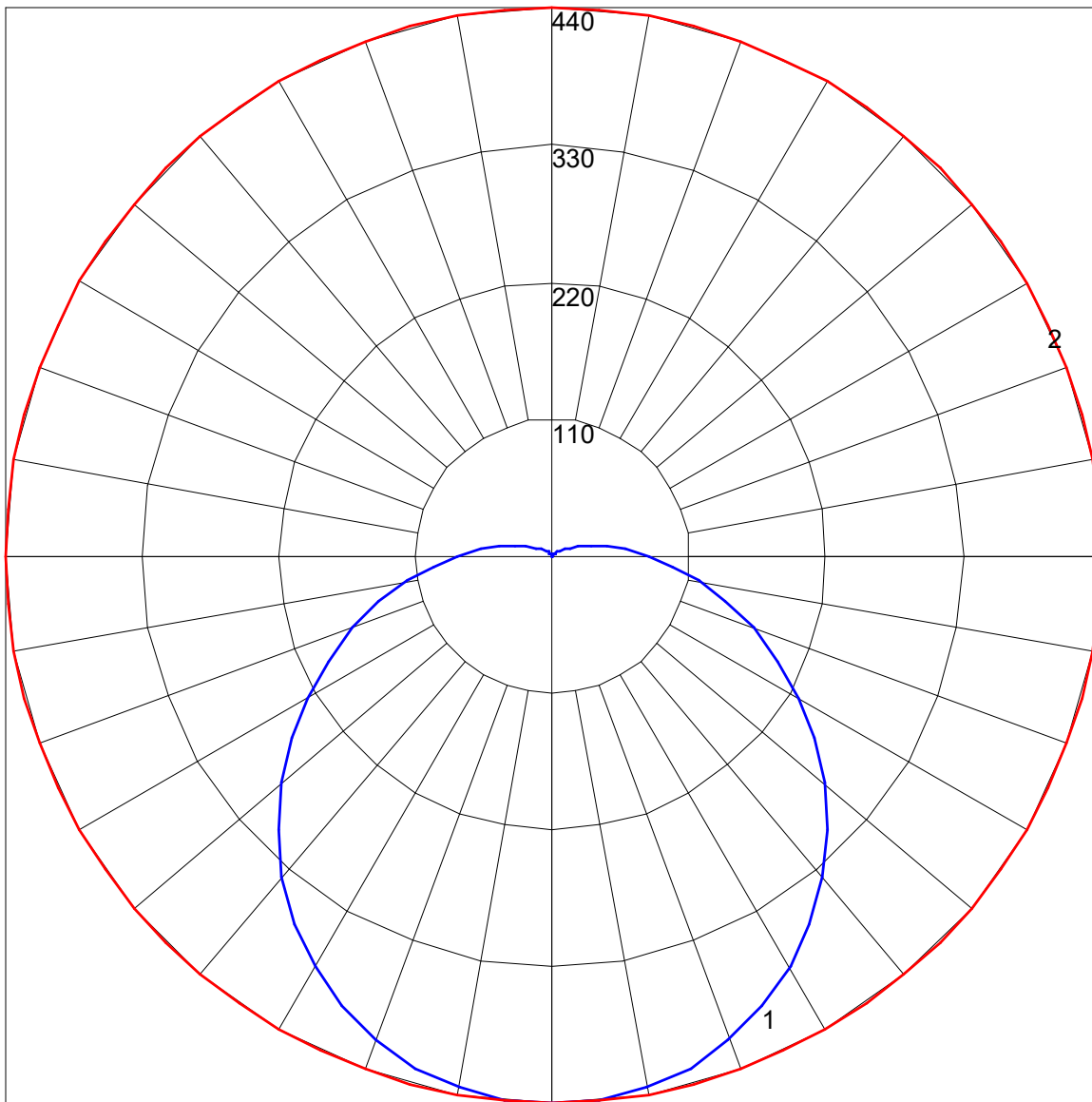
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 439.785 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.)