

## IES Report

# ZipTwo® | 707 | Square 3519, Diffuse | 90 CRI | LO

707-Z2-4-48-XX-XX-X-0-Z-LO-359-F6-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	103	107	109	110
Total Lumens, 4' rail length (1219mm)	1533	1582	1614	1630
Lumens per foot (305mm)	383	395	404	408
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	95	95	95	95

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\_F6\_WH.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] L082011211 (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-LO-359-F6-WH  
[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, zipper board,  
[MORE] square 3519, diffuse lens, low output  
[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1614
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	14.89
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.34
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.44
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.13 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.06 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6229	6403	7618
55	5823	5912	7291
65	5407	5366	6911
75	4904	4740	6495
85	4325	4023	6393

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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>	405.780	405.780	405.780	405.780	405.780	405.780	405.780	405.780	405.780	405.780
<b>5</b>	405.455	405.395	405.435	405.330	405.310	405.290	405.120	405.080	405.040	404.935
<b>10</b>	403.990	403.950	404.010	403.800	403.550	403.340	403.045	402.670	402.295	401.875
<b>15</b>	399.255	399.130	398.900	398.750	398.355	397.975	397.450	396.800	396.130	395.375
<b>20</b>	390.870	390.765	390.515	390.200	389.720	389.070	388.295	387.370	386.410	385.380
<b>25</b>	379.430	379.325	379.010	378.510	377.835	376.915	375.845	374.675	373.310	371.845
<b>30</b>	365.430	365.265	364.885	364.300	363.355	362.100	360.760	359.125	357.385	355.435
<b>35</b>	349.170	348.920	348.415	347.575	346.425	344.955	343.220	341.290	339.070	336.720
<b>40</b>	330.895	330.770	330.120	328.990	327.565	325.680	323.580	321.130	318.450	315.620
<b>45</b>	311.280	310.945	310.170	308.850	307.005	304.745	302.165	299.275	296.045	292.715
<b>50</b>	290.200	289.780	288.860	287.285	285.130	282.485	279.365	275.950	272.135	268.300
<b>55</b>	267.945	267.610	266.500	264.610	262.095	259.060	255.455	251.575	247.280	242.880
<b>60</b>	244.600	244.160	242.965	240.890	238.000	234.560	230.495	226.010	221.085	216.225
<b>65</b>	219.870	219.410	218.005	215.825	212.660	208.825	204.530	199.585	194.220	188.900
<b>70</b>	193.800	193.320	191.915	189.525	186.300	182.275	177.705	172.510	167.000	161.385
<b>75</b>	167.105	166.645	165.240	162.870	159.560	155.495	150.885	145.500	139.755	133.930
<b>80</b>	140.070	139.545	138.185	135.920	132.630	128.670	124.100	118.800	113.035	107.190
<b>85</b>	114.380	113.940	112.660	110.440	107.315	103.480	98.975	93.800	88.080	82.255
<b>90</b>	90.110	89.715	88.435	86.360	83.340	79.635	75.255	70.140	64.505	58.675
<b>95</b>	80.805	80.450	79.320	77.410	74.710	71.335	67.330	62.640	57.440	52.075
<b>100</b>	78.000	77.640	76.555	74.835	72.300	69.155	65.385	61.005	56.120	51.005
<b>105</b>	75.610	75.255	74.270	72.570	70.160	67.145	63.600	59.410	54.800	49.835
<b>110</b>	72.845	72.510	71.565	69.970	67.690	64.840	61.445	57.485	53.105	48.345
<b>115</b>	69.700	69.385	68.485	67.020	64.775	62.115	58.910	55.155	51.030	46.650
<b>120</b>	66.135	65.845	64.985	63.560	61.590	58.990	55.995	52.515	48.680	44.490
<b>125</b>	62.070	61.800	61.005	59.685	57.840	55.470	52.705	49.475	45.875	41.975
<b>130</b>	57.585	57.335	56.600	55.410	53.710	51.530	48.975	45.955	42.290	37.890
<b>135</b>	52.600	52.410	51.740	50.630	49.060	47.025	44.635	40.970	37.195	33.595
<b>140</b>	47.150	46.920	46.355	45.390	44.010	42.205	38.875	35.605	32.460	29.360
<b>145</b>	41.705	41.535	41.055	40.235	38.855	35.875	33.110	30.510	28.040	25.775
<b>150</b>	36.085	35.900	35.480	34.680	32.145	29.840	27.830	25.900	24.455	22.840
<b>155</b>	30.385	30.220	29.820	28.145	26.005	24.350	23.030	22.150	20.810	19.090
<b>160</b>	24.265	24.140	23.305	21.290	19.970	18.905	18.315	17.350	15.905	14.500
<b>165</b>	17.140	16.955	15.380	14.670	14.125	14.085	13.620	12.760	11.905	11.190
<b>170</b>	11.695	10.690	10.060	9.810	10.225	10.205	9.975	9.705	9.370	8.970
<b>175</b>	7.210	6.685	6.875	7.335	7.420	7.355	7.250	7.230	7.125	7.000
<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>	405.780	405.780	405.780	405.780	405.780	405.780	405.780	405.780	405.780
<b>5</b>	404.830	404.810	404.680	404.575	404.555	404.620	404.555	404.470	404.535
<b>10</b>	401.435	400.845	400.385	399.945	399.650	399.360	399.210	399.065	399.170
<b>15</b>	394.600	393.720	392.925	392.025	391.100	390.350	389.845	389.675	389.530
<b>20</b>	384.080	382.930	381.735	380.415	379.155	377.920	376.810	376.350	376.205
<b>25</b>	370.250	368.615	366.900	365.220	363.585	361.910	360.295	359.395	359.145
<b>30</b>	353.380	351.370	349.275	347.115	345.085	342.965	341.015	339.570	339.235
<b>35</b>	334.290	331.690	329.115	326.410	323.855	321.340	319.015	316.960	316.435
<b>40</b>	312.540	309.480	306.460	303.235	300.280	297.345	294.560	292.125	291.415
<b>45</b>	289.150	285.505	281.965	278.295	274.920	271.485	268.320	265.515	264.380
<b>50</b>	264.195	260.000	256.040	251.955	248.035	244.285	240.825	237.580	236.050
<b>55</b>	238.165	233.535	229.050	224.440	220.080	215.930	212.010	208.490	206.545
<b>60</b>	211.070	205.915	201.010	196.000	191.180	186.615	182.360	178.545	176.240

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	183.325	177.750	172.425	167.125	162.115	157.110	152.705	148.535	145.770
<b>70</b>	155.450	149.585	143.925	138.140	132.735	127.620	122.845	118.525	115.260
<b>75</b>	127.810	121.690	115.760	109.810	104.175	98.785	93.820	89.400	85.835
<b>80</b>	100.925	94.740	88.600	82.590	76.910	71.395	66.285	61.695	57.670
<b>85</b>	76.050	69.785	63.685	57.485	51.680	45.850	40.695	35.875	31.560
<b>90</b>	52.390	46.085	39.840	33.425	27.265	21.315	15.820	10.920	6.370
<b>95</b>	46.230	40.320	34.495	28.460	22.675	17.035	11.755	6.935	2.600
<b>100</b>	45.560	39.795	34.140	28.250	22.570	17.035	11.780	6.725	2.810
<b>105</b>	44.595	39.085	33.595	27.895	22.360	16.785	11.380	6.620	3.060
<b>110</b>	43.360	38.055	32.795	27.305	21.795	16.285	11.275	6.140	3.270
<b>115</b>	41.830	36.840	31.705	26.215	21.020	15.800	11.025	5.765	3.565
<b>120</b>	39.965	35.225	30.200	25.125	20.075	15.320	9.975	5.385	3.730
<b>125</b>	37.470	32.610	27.850	22.885	18.485	14.020	9.075	5.010	3.940
<b>130</b>	33.550	29.320	25.000	20.830	16.995	12.425	8.340	4.905	4.150
<b>135</b>	29.820	26.110	22.550	18.945	15.215	10.980	7.460	4.780	4.360
<b>140</b>	26.300	23.385	20.265	16.830	12.890	9.765	6.915	4.755	4.525
<b>145</b>	23.640	21.040	17.645	14.020	11.255	8.465	6.475	4.755	4.650
<b>150</b>	20.745	17.710	14.670	12.345	9.890	8.090	6.330	5.135	5.030
<b>155</b>	16.470	14.355	12.635	10.605	9.095	7.630	6.180	5.490	5.450
<b>160</b>	13.205	11.610	10.395	9.370	8.300	7.020	6.035	5.765	5.740
<b>165</b>	10.455	9.765	9.030	8.195	7.315	6.520	6.100	5.995	5.995
<b>170</b>	8.570	8.090	7.565	7.060	6.620	6.370	6.285	6.310	6.330
<b>175</b>	6.875	6.790	6.645	6.540	6.495	6.495	6.540	6.540	6.540
<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	150.03	N.A.	9.30
0-30	320.96	N.A.	19.90
0-40	530.73	N.A.	32.90
0-60	970.81	N.A.	60.20
0-80	1295.15	N.A.	80.20
0-90	1381.8	N.A.	85.60
10-90	1343.25	N.A.	83.20
20-40	380.71	N.A.	23.60
20-50	605.27	N.A.	37.50
40-70	625.29	N.A.	38.70
60-80	324.34	N.A.	20.10
70-80	139.13	N.A.	8.60
80-90	86.65	N.A.	5.40
90-110	102.99	N.A.	6.40
90-120	145.41	N.A.	9.00
90-130	179.56	N.A.	11.10
90-150	219.80	N.A.	13.60
90-180	232.10	N.A.	14.40
110-180	129.11	N.A.	8.00
0-180	1613.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	38.55
10-20	111.48
20-30	170.94
30-40	209.77
40-50	224.56
50-60	215.52
60-70	185.21
70-80	139.13
80-90	86.65
90-100	54.35
100-110	48.64
110-120	42.42
120-130	34.15
130-140	24.62
140-150	15.63
150-160	8.39
160-170	3.27
170-180	0.64

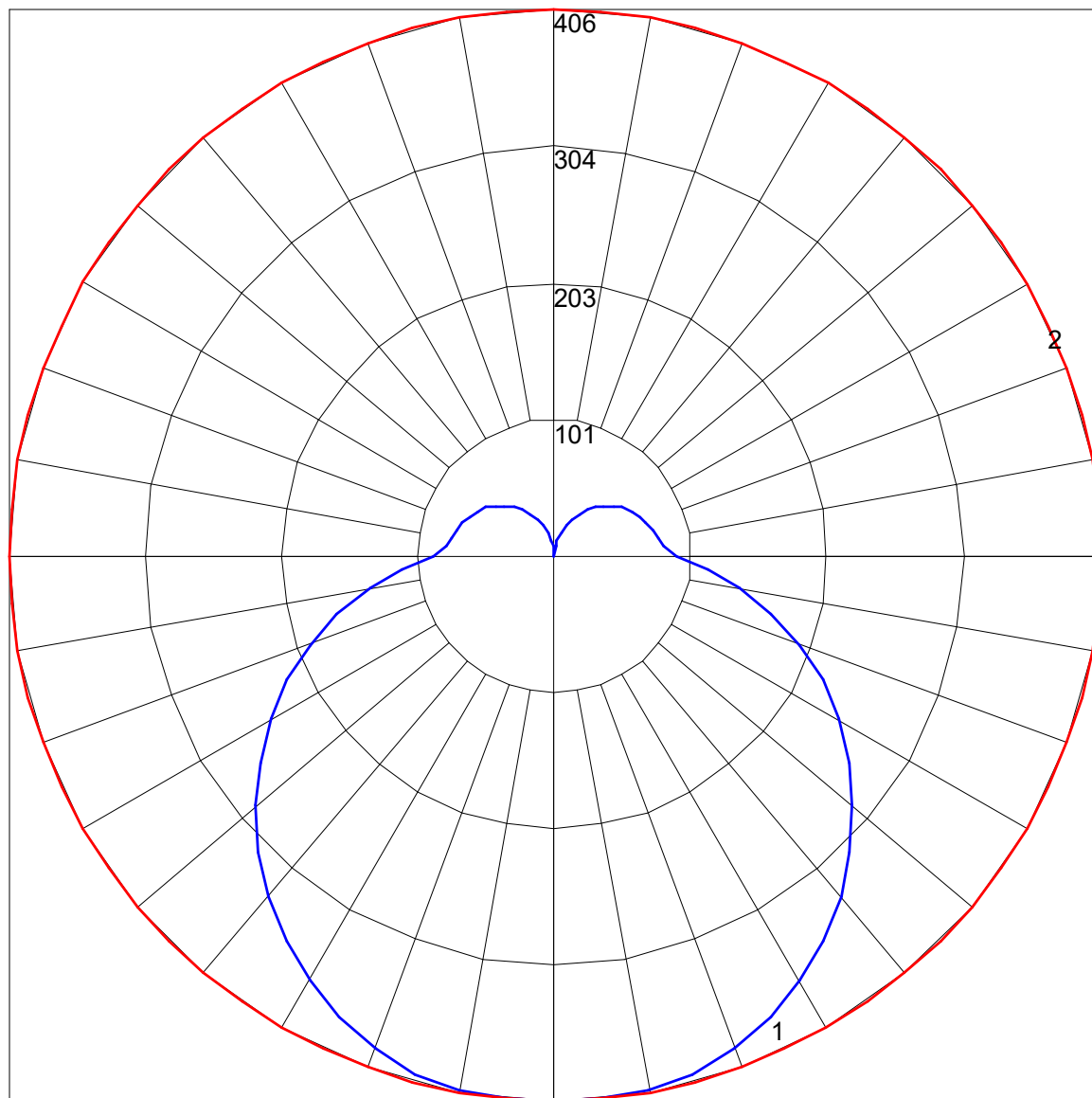
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	116	116	116	116	111	111	111	111	103	103	103	96	96	96	89	89	89	86
1	103	98	93	88	99	94	90	86	87	84	80	81	78	75	75	73	71	67
2	93	84	77	70	89	81	74	68	75	70	65	70	65	61	65	61	58	55
3	85	73	65	58	81	71	63	56	66	59	53	61	55	51	56	52	48	45
4	77	65	55	48	74	62	54	47	58	51	45	54	48	43	50	45	41	38
5	71	57	48	41	68	55	47	40	52	44	39	48	42	37	45	39	35	33
6	65	51	42	36	62	50	41	35	46	39	33	43	37	32	41	35	31	28
7	60	46	38	31	58	45	37	31	42	35	29	39	33	28	37	31	27	25
8	56	42	34	28	54	41	33	27	38	31	26	36	30	25	34	28	24	22
9	52	39	30	25	50	38	30	24	35	28	23	33	27	23	31	26	22	20
10	49	36	28	22	47	35	27	22	33	26	21	31	25	20	29	24	20	18

POLAR GRAPH



Maximum Candela = 405.78 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.)