

IES Report

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

707-Z2-4-48-XX-XX-X-0-Z-LO-359-F9-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	52	54	55	56
Total Lumens, 4' rail length (1219mm)	771	796	812	820
Lumens per foot (305mm)	193	199	203	205
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_F9_WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011212 (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-F9-WH

[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, zipper board,

[MORE] square 3519, side 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	812
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	55
Total Luminaire Watts	14.89
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	0.05 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1842	1262	76
55	2578	1759	80
65	3513	2432	80
75	4712	3411	103
85	6520	5166	165

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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>
0	3.635	3.635	3.635	3.635	3.635	3.635	3.635	3.635	3.635	3.635
5	7.505	7.505	7.460	7.335	7.190	7.000	6.790	6.495	6.205	5.910
10	15.170	15.150	15.005	14.775	14.375	13.915	13.350	12.700	11.965	11.170
15	23.470	23.365	23.115	22.675	22.045	21.250	20.330	19.215	17.980	16.660
20	32.480	32.355	31.960	31.330	30.385	29.215	27.830	26.215	24.370	22.445
25	42.250	42.080	41.575	40.655	39.375	37.785	35.900	33.655	31.185	28.585
30	52.685	52.430	51.700	50.545	48.890	46.795	44.365	41.470	38.310	34.995
35	63.705	63.415	62.490	61.025	58.885	56.310	53.290	49.710	45.770	41.680
40	75.190	74.790	73.640	71.815	69.220	66.055	62.325	58.025	53.290	48.390
45	87.010	86.505	85.165	82.925	79.820	75.965	71.605	66.515	60.900	55.115
50	98.955	98.410	96.815	94.155	90.490	86.005	80.910	74.940	68.505	61.840
55	110.480	109.915	107.985	104.950	100.695	95.560	89.690	82.925	75.610	68.170
60	121.210	120.495	118.340	114.945	110.145	104.485	97.930	90.405	82.420	74.015
65	130.680	129.905	127.540	123.830	118.695	112.430	105.180	97.235	88.520	79.445
70	137.975	137.200	134.725	130.810	125.525	118.800	111.110	102.540	93.485	83.885
75	143.255	142.440	139.905	135.965	130.470	123.555	115.760	106.815	97.235	87.220
80	146.485	145.685	143.255	139.230	133.740	126.825	118.925	109.850	99.940	89.820
85	147.910	147.130	144.725	140.825	135.375	128.525	120.665	111.570	101.615	91.430
90	148.075	147.320	144.975	141.200	135.650	128.985	121.210	112.180	102.310	92.100
95	147.615	146.880	144.555	140.740	135.420	128.775	121.125	112.155	102.310	92.230
100	146.355	145.580	143.275	139.505	134.160	127.705	120.120	111.300	101.740	91.600
105	143.925	143.150	140.865	137.095	131.980	125.465	118.045	109.640	100.190	90.425
110	140.195	139.440	137.200	133.595	128.585	122.320	115.135	106.790	97.885	88.500
115	134.955	134.205	132.065	128.650	123.890	117.920	111.045	103.060	94.430	85.415
120	128.335	127.600	125.630	122.385	117.960	112.260	105.805	98.305	90.070	81.560
125	120.370	119.765	117.900	114.965	110.795	105.575	99.585	92.670	85.020	77.075
130	111.275	110.815	109.095	106.415	102.580	97.930	92.480	86.110	78.440	69.595
135	101.345	100.860	99.395	96.920	93.550	89.250	84.220	76.530	68.485	61.005
140	90.320	89.880	88.580	86.400	83.320	79.380	72.635	65.780	59.160	52.745
145	78.835	78.500	77.410	75.610	72.865	66.810	61.045	55.490	50.275	45.600
150	67.395	67.120	66.160	64.480	59.515	54.610	50.295	46.230	42.960	39.400
155	55.785	55.555	54.695	51.445	46.795	43.190	40.045	37.805	34.810	31.560
160	42.750	42.520	41.010	36.590	33.570	31.390	30.365	29.110	26.990	23.995
165	30.345	30.010	26.655	24.855	23.450	23.260	22.275	20.640	18.965	17.710
170	19.240	17.080	15.530	15.005	15.820	15.990	15.675	15.320	14.670	13.955
175	11.105	9.325	9.745	10.750	11.190	11.190	11.065	10.960	10.750	10.435
180	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>
0	3.635	3.635	3.635	3.635	3.635	3.635	3.635	3.635	3.635
5	5.535	5.155	4.820	4.465	4.150	3.855	3.690	3.540	3.520
10	10.250	9.285	8.320	7.270	6.245	5.175	4.315	3.730	3.480
15	15.235	13.705	12.115	10.455	8.760	6.935	5.280	3.960	3.435
20	20.390	18.190	15.990	13.645	11.315	8.845	6.495	4.340	3.395
25	25.755	22.840	19.865	16.850	13.810	10.750	7.670	4.755	3.270
30	31.415	27.685	23.910	20.095	16.305	12.595	8.865	5.280	3.100
35	37.240	32.735	28.100	23.450	18.905	14.420	10.080	5.825	3.060
40	43.085	37.660	32.230	26.760	21.440	16.155	11.150	6.330	2.850
45	48.910	42.665	36.445	30.030	23.955	17.770	12.195	6.705	2.640
50	54.735	47.590	40.530	33.255	26.405	19.490	13.180	7.190	2.515
55	60.270	52.160	44.280	36.235	28.500	21.000	14.000	7.565	2.265
60	65.385	56.600	47.800	38.875	30.555	22.425	14.835	7.920	2.010

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PHOTOMETRIC FILENAME : VODE_707_Z2_LO_359_F9_WH.IES

CANDELA TABULATION - (Cont.)

65	69.950	60.460	51.005	41.365	32.440	23.680	15.550	8.070	1.675
70	73.745	63.705	53.690	43.485	34.035	24.915	16.200	8.255	1.635
75	76.680	66.390	55.745	45.245	35.355	25.965	16.680	8.530	1.340
80	78.860	68.210	57.460	46.775	36.550	26.655	17.205	8.780	1.050
85	80.515	69.555	58.595	47.715	37.115	26.990	17.455	8.780	0.795
90	81.350	70.180	59.115	48.135	37.450	27.200	17.560	8.760	0.585
95	81.330	70.370	59.495	48.365	37.785	27.180	17.710	8.845	0.630
100	81.060	70.180	59.285	48.050	37.595	27.245	17.605	8.300	0.840
105	79.905	69.300	58.595	47.610	37.300	27.075	16.870	7.755	1.215
110	78.105	67.855	57.420	46.755	36.630	26.260	16.620	7.145	1.595
115	75.505	65.800	55.825	45.350	35.225	25.525	16.030	6.560	1.930
120	72.215	63.015	53.250	43.440	33.720	24.685	14.690	6.100	2.390
125	68.255	58.300	48.830	39.500	30.680	21.690	12.930	5.740	2.810
130	60.520	52.035	43.440	35.415	27.475	19.070	11.275	5.535	3.145
135	53.440	45.830	38.830	31.475	23.700	16.640	9.810	5.430	3.480
140	46.545	40.510	34.140	26.700	20.265	13.980	8.950	5.280	3.770
145	41.075	35.565	28.250	22.295	17.080	11.650	8.320	5.175	4.025
150	34.660	28.605	23.720	19.175	14.460	11.295	8.340	5.660	4.735
155	27.160	23.515	19.805	15.925	13.370	10.815	8.175	6.225	5.535
160	21.145	18.190	15.990	14.165	12.260	10.060	7.985	6.620	6.160
165	16.390	15.215	13.850	12.470	10.895	9.160	7.775	6.980	6.705
170	13.350	12.635	11.650	10.585	9.410	8.465	7.775	7.440	7.295
175	10.015	9.555	9.075	8.655	8.340	8.070	7.900	7.795	7.755
180	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	5.19	N.A.	0.60
0-30	17.58	N.A.	2.20
0-40	42.03	N.A.	5.20
0-60	139.68	N.A.	17.20
0-80	300.89	N.A.	37.10
0-90	394.20	N.A.	48.60
10-90	393.51	N.A.	48.50
20-40	36.85	N.A.	4.50
20-50	76.89	N.A.	9.50
40-70	171.97	N.A.	21.20
60-80	161.21	N.A.	19.90
70-80	86.88	N.A.	10.70
80-90	93.31	N.A.	11.50
90-110	182.55	N.A.	22.50
90-120	260.96	N.A.	32.10
90-130	324.15	N.A.	39.90
90-150	397.15	N.A.	48.90
90-180	417.62	N.A.	51.40
110-180	235.07	N.A.	29.00
0-180	811.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.69
10-20	4.50
20-30	12.40
30-40	24.45
40-50	40.04
50-60	57.60
60-70	74.33
70-80	86.88
80-90	93.31
90-100	93.75
100-110	88.80
110-120	78.41
120-130	63.19
130-140	45.10
140-150	27.91
150-160	14.31
160-170	5.23
170-180	0.93

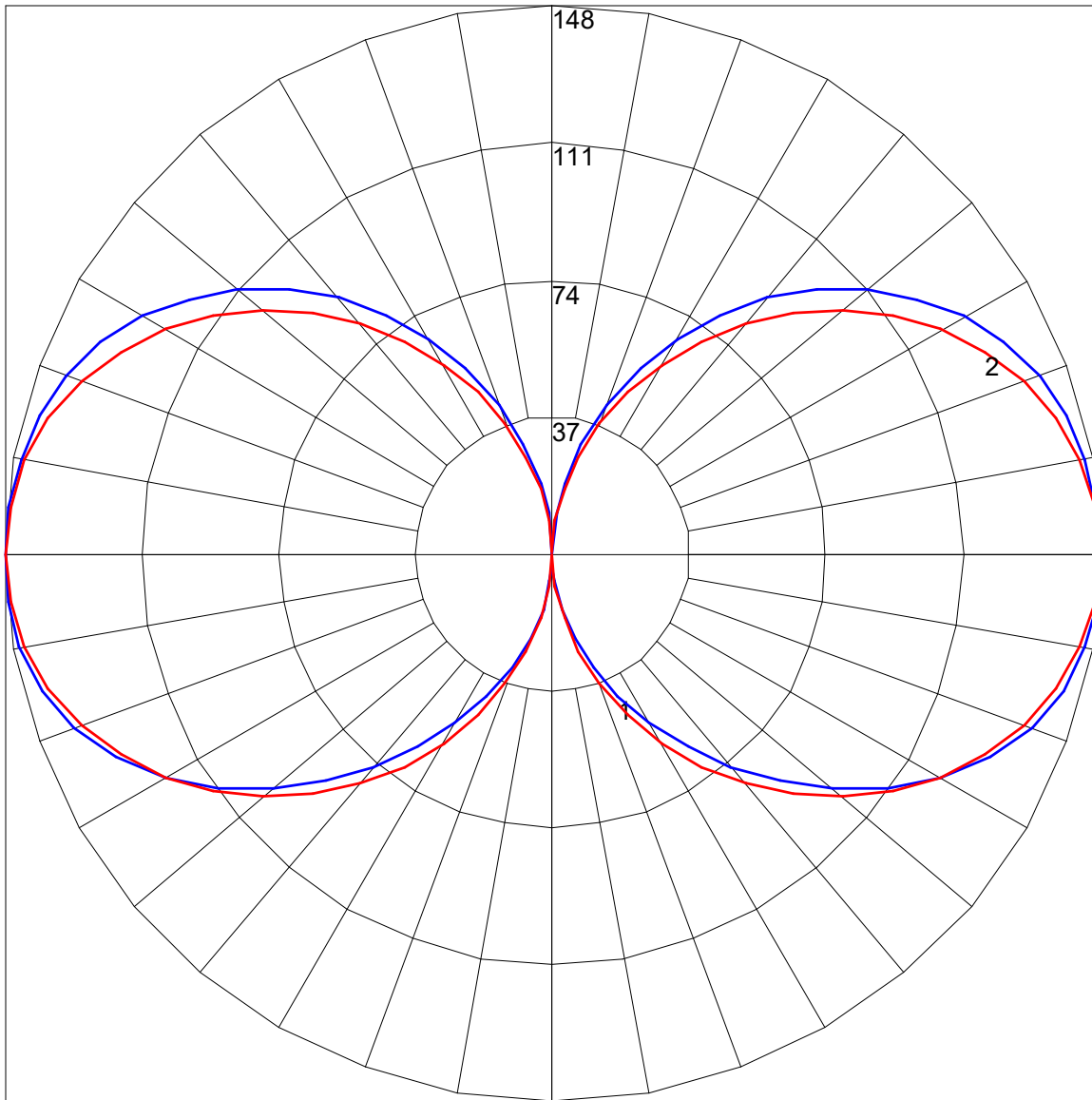
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	91	85	79	73	83	77	72	67	63	59	55	51	48	45	39	37	34	29
2	81	71	62	55	73	64	57	50	52	46	41	41	37	33	31	28	25	19
3	72	60	51	43	65	55	46	39	44	38	32	35	29	25	26	22	18	14
4	65	52	42	35	59	47	39	32	38	31	26	30	24	20	22	18	14	10
5	60	46	36	29	54	41	33	26	33	26	21	26	21	16	19	15	12	8
6	54	40	31	24	49	37	28	22	30	23	18	23	18	14	17	13	9	6
7	50	36	27	20	45	33	24	19	26	20	15	21	15	11	15	11	8	5
8	46	32	24	18	42	29	22	16	24	17	13	19	14	10	14	10	7	4
9	43	29	21	15	39	27	19	14	22	15	11	17	12	8	13	9	6	3
10	40	27	19	13	36	24	17	12	20	14	10	16	11	7	12	8	5	3

POLAR GRAPH



Maximum Candela = 148.075 Located At Horizontal Angle = 0, Vertical Angle = 90
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (90) (Through Max. Cd.)