

IES Report

ZipTwo® | 707 | Square, Diffuse | 90 CRI | HO

707-Z2-4-48-XX-XX-X-0-Z-HO-359-S6-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	124	128	130	132
Total Lumens, 4' rail length (1219mm)	4877	5031	5134	5185
Lumens per foot (305mm)	1219	1258	1283	1296
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	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_HO_359_S6.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911533 (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-HO-359-S6-AL

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

[MORE] high 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	5134
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	39.55
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.70
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.64
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.11 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.09 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17779	16646	17482
55	17710	16117	16466
65	17042	15452	15434
75	15741	14622	14579
85	14288	13754	14809

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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	841.650	841.650	841.650	841.650	841.650	841.650	841.650	841.650	841.650	841.650
5	862.425	862.365	862.365	861.990	860.850	860.160	859.035	857.775	856.080	854.250
10	884.430	884.310	883.545	882.285	880.590	878.205	875.445	872.175	868.965	865.260
15	900.150	899.775	898.515	896.565	893.550	889.770	885.375	880.155	873.930	867.510
20	912.345	911.520	909.450	906.240	901.965	896.055	889.020	881.280	872.490	863.310
25	921.390	920.265	917.490	912.975	906.240	898.200	888.825	877.515	865.380	852.675
30	928.440	927.750	923.475	917.310	908.250	897.510	884.865	870.225	854.070	837.465
35	934.215	932.775	928.125	919.890	908.190	894.240	878.085	859.275	838.725	817.665
40	937.485	935.535	929.385	919.260	905.370	887.820	867.825	844.950	820.110	794.655
45	935.220	932.775	925.545	913.725	897.315	876.885	853.245	826.530	797.175	767.865
50	924.420	921.645	913.470	900.525	881.970	858.900	832.620	802.065	769.575	736.245
55	901.275	898.320	890.025	876.135	856.575	831.930	803.775	771.015	735.810	699.345
60	863.940	861.045	852.675	838.785	819.300	794.220	765.420	731.715	694.635	656.595
65	811.755	809.295	801.375	787.920	769.695	745.560	717.075	683.565	646.845	607.815
70	747.630	745.485	738.255	726.315	709.020	686.205	659.175	627.795	592.470	554.190
75	675.705	673.635	667.470	656.655	641.325	620.880	595.995	566.760	533.685	498.360
80	600.510	598.815	593.535	584.115	570.525	552.165	529.980	502.005	473.895	440.520
85	527.460	525.825	521.055	512.820	501.555	486.225	466.350	442.095	413.175	382.305
90	462.960	461.445	456.870	449.385	438.195	423.285	405.120	382.560	356.970	327.105
95	434.040	432.720	428.505	421.590	411.465	397.320	380.610	359.985	335.910	309.180
100	414.675	413.610	409.710	403.050	393.360	380.295	364.440	344.895	321.885	296.550
105	397.575	396.510	392.670	386.385	376.965	364.440	349.230	330.495	308.625	284.535
110	380.850	379.725	376.260	369.855	360.480	348.540	333.900	316.095	294.795	271.905
115	363.510	362.310	358.845	352.755	343.575	332.070	317.865	300.510	280.650	258.570
120	344.895	343.830	340.245	334.200	325.530	314.085	300.390	284.220	265.110	244.305
125	324.150	323.205	319.680	313.845	305.595	294.660	281.580	266.310	248.085	228.585
130	301.395	300.315	296.925	291.390	283.530	273.345	261.150	246.375	229.905	210.165
135	276.240	275.235	272.025	267.000	259.590	250.155	238.905	224.760	205.635	185.085
140	249.210	248.205	245.310	240.660	233.865	225.255	212.805	194.895	177.975	160.695
145	220.290	219.480	216.765	212.490	206.715	195.465	180.240	165.720	151.830	137.745
150	190.245	189.480	187.155	183.570	174.645	161.385	149.565	138.180	127.995	119.010
155	159.180	158.490	156.600	151.320	139.125	129.570	120.840	114.675	108.450	100.785
160	127.755	127.305	125.295	114.420	106.560	100.155	96.885	92.670	86.190	76.260
165	93.930	93.480	85.125	78.330	73.425	71.865	69.540	65.385	58.965	54.195
170	58.965	54.135	47.655	44.820	45.900	45.960	44.760	42.945	40.800	38.160
175	23.895	22.755	22.815	24.645	25.530	25.395	24.900	23.895	22.755	21.495
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	841.650	841.650	841.650	841.650	841.650	841.650	841.650	841.650	841.650
5	852.495	850.290	848.400	845.895	843.690	841.365	839.295	837.270	836.520
10	860.790	856.455	851.805	846.645	841.425	836.400	831.060	825.900	823.200
15	860.595	853.365	846.135	838.290	830.355	822.195	813.825	805.650	799.815
20	853.125	842.805	831.750	820.800	809.805	798.615	787.680	776.550	768.375
25	839.100	824.640	810.375	795.660	781.455	767.550	753.600	739.890	728.385
30	819.735	801.135	783.015	764.910	747.255	729.585	712.605	696.195	681.735
35	795.540	773.025	750.645	729.015	707.205	686.265	666.150	647.160	630.195
40	768.000	741.210	714.120	688.350	663.075	638.985	615.855	594.225	574.860
45	736.380	705.375	674.580	644.715	615.735	588.315	562.605	538.590	517.155
50	700.470	666.090	631.515	598.065	566.820	535.890	507.915	481.500	458.310
55	660.435	622.965	585.435	549.030	515.010	482.325	451.890	423.675	398.835
60	615.540	576.120	536.520	498.540	462.465	427.500	394.620	365.385	338.730

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CANDELA TABULATION - (Cont.)

65	566.385	525.885	485.595	445.800	407.820	372.555	338.100	307.545	279.765
70	513.825	473.265	432.345	391.545	353.565	317.100	282.210	251.415	222.555
75	458.565	418.695	378.405	337.980	300.000	263.235	228.525	196.845	167.355
80	403.365	365.205	325.965	287.115	249.720	213.120	177.975	145.785	119.955
85	348.600	311.700	274.230	235.560	198.915	162.270	128.370	96.120	66.390
90	294.915	260.460	224.565	186.780	150.885	115.245	79.965	47.850	18.105
95	278.760	246.450	212.490	176.655	142.080	107.760	74.115	42.255	13.080
100	267.825	237.765	204.825	171.435	137.745	104.985	72.105	41.550	12.075
105	257.250	228.150	197.085	165.600	132.585	100.335	69.090	39.105	10.695
110	246.630	217.965	188.730	157.740	127.185	95.250	65.445	34.710	9.300
115	233.865	207.465	179.430	149.250	120.135	90.030	61.170	30.300	7.800
120	220.725	195.705	169.050	140.640	112.980	84.555	56.400	25.335	6.540
125	206.340	182.760	157.110	129.570	103.350	76.830	47.970	21.315	5.655
130	187.350	163.830	139.950	115.545	92.415	68.715	40.800	18.225	5.535
135	164.775	144.345	123.720	102.345	81.975	58.965	35.520	15.900	0.000
140	143.460	125.925	108.450	89.895	70.860	49.605	30.990	14.205	0.000
145	124.545	111.150	93.615	76.770	58.470	42.120	26.970	12.825	0.000
150	108.630	94.170	79.020	62.865	48.780	36.210	23.445	12.015	0.000
155	89.085	75.885	63.690	51.300	40.935	31.305	20.055	11.625	0.000
160	67.200	58.275	49.785	41.625	34.260	25.845	17.535	10.755	0.000
165	48.975	44.190	38.985	33.255	26.910	20.745	15.030	9.750	0.000
170	35.085	31.440	27.285	23.265	19.560	15.720	11.880	8.355	0.000
175	19.860	18.225	16.410	14.520	12.570	10.500	8.610	7.485	0.000
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	325.17	N.A.	6.30
0-30	714.61	N.A.	13.90
0-40	1220.17	N.A.	23.80
0-60	2414.37	N.A.	47.00
0-80	3491.77	N.A.	68.00
0-90	3874.8	N.A.	75.50
10-90	3793.26	N.A.	73.90
20-40	895.00	N.A.	17.40
20-50	1478.00	N.A.	28.80
40-70	1774.89	N.A.	34.60
60-80	1077.4	N.A.	21.00
70-80	496.71	N.A.	9.70
80-90	383.03	N.A.	7.50
90-110	573.11	N.A.	11.20
90-120	802.67	N.A.	15.60
90-130	985.43	N.A.	19.20
90-150	1198.72	N.A.	23.40
90-180	1258.78	N.A.	24.50
110-180	685.66	N.A.	13.40
0-180	5133.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	81.54
10-20	243.63
20-30	389.44
30-40	505.56
40-50	583.00
50-60	611.20
60-70	580.70
70-80	496.71
80-90	383.03
90-100	303.78
100-110	269.34
110-120	229.56
120-130	182.76
130-140	131.10
140-150	82.18
150-160	42.67
160-170	15.29
170-180	2.09

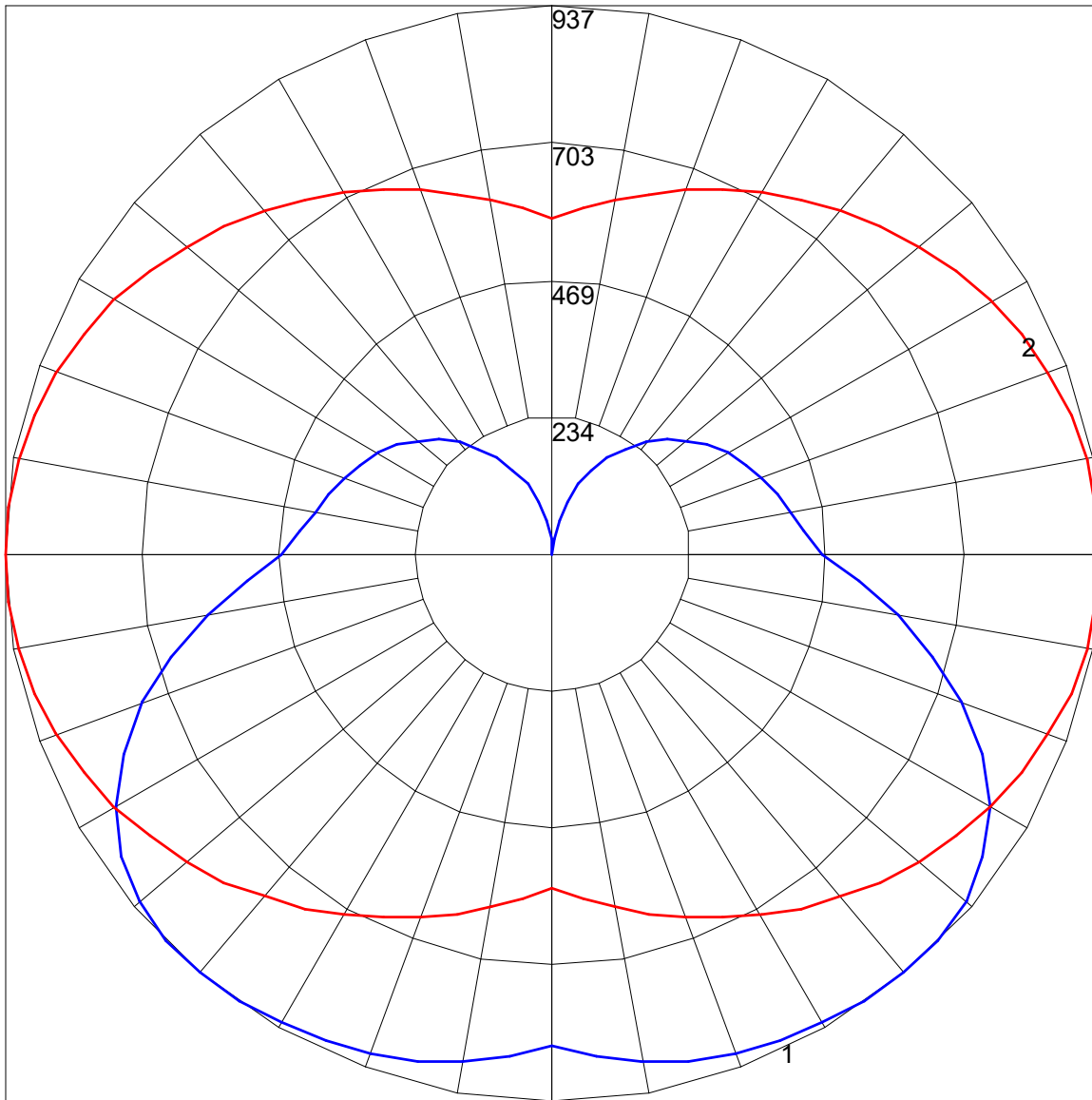
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	80	80	80	75
1	100	94	88	84	94	89	84	80	80	76	73	72	69	66	65	62	60	56
2	89	80	72	65	84	76	69	63	68	62	57	61	57	52	55	51	48	44
3	81	69	60	53	76	65	57	51	59	52	47	53	47	43	47	43	39	36
4	73	60	51	44	69	57	49	42	52	44	39	46	40	36	41	37	33	29
5	67	53	44	37	63	51	42	35	46	38	33	41	35	30	37	32	28	25
6	62	48	38	32	58	45	37	30	41	34	28	37	31	26	33	28	24	21
7	57	43	34	27	54	41	32	26	37	30	25	33	27	23	30	25	21	18
8	53	39	30	24	50	37	29	23	34	27	22	31	24	20	28	22	19	16
9	49	35	27	21	46	34	26	21	31	24	19	28	22	18	25	20	17	14
10	46	32	24	19	43	31	24	18	28	22	17	26	20	16	23	18	15	13

POLAR GRAPH



Maximum Candela = 937.485 Located At Horizontal Angle = 0, Vertical Angle = 40
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (40) (Through Max. Cd.)