

IES Report

ZipTwo® | 707 | Round 3515, Diffuse | 90 CRI | HO

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	106	109	111	113
Total Lumens, 4' rail length (1219mm)	4169	4300	4388	4432
Lumens per foot (305mm)	1042	1075	1097	1108
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_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-HO-359-S4-AL

[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, zipper board, round 3515, diffuse (WH) 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	4388
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	39.55
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	32386	31569	30865
55	32822	31212	29912
65	34569	31235	28272
75	40881	33720	25113
85	81557	57930	20872

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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	1319.355	1319.355	1319.355	1319.355	1319.355	1319.355	1319.355	1319.355	1319.355	1319.355
5	1315.710	1315.770	1315.635	1315.635	1315.575	1315.575	1315.515	1315.455	1315.455	1315.710
10	1301.490	1301.490	1301.565	1301.370	1301.370	1301.175	1300.935	1300.740	1300.545	1300.305
15	1277.730	1277.730	1277.535	1277.355	1277.100	1276.665	1276.155	1275.915	1275.405	1274.970
20	1243.275	1243.410	1243.095	1242.900	1242.210	1241.580	1240.830	1240.005	1239.135	1238.190
25	1199.400	1199.265	1198.890	1198.395	1197.255	1196.445	1195.305	1193.985	1192.665	1191.345
30	1145.835	1145.715	1145.205	1144.455	1143.255	1141.875	1140.240	1138.410	1136.460	1134.705
35	1083.600	1083.600	1082.715	1081.710	1080.135	1078.320	1076.115	1073.910	1071.465	1069.005
40	1013.940	1013.565	1012.680	1011.360	1009.350	1007.085	1004.325	1001.490	998.280	995.145
45	936.990	936.615	935.475	933.660	931.140	928.065	924.720	921.015	917.055	913.350
50	855.135	854.625	853.185	850.860	847.710	843.750	839.355	834.765	829.605	825.075
55	770.265	769.755	767.865	765.105	761.205	756.300	750.765	744.990	738.765	732.480
60	684.000	683.370	681.045	677.400	672.750	666.525	659.805	652.380	644.520	636.600
65	597.750	596.745	594.285	589.950	584.235	577.065	568.770	559.710	549.915	540.105
70	513.510	512.505	509.355	504.900	498.480	490.185	480.630	469.935	458.250	446.115
75	432.915	431.910	428.565	423.420	416.130	407.130	396.570	384.495	371.235	357.090
80	357.345	356.340	352.755	347.280	339.615	329.865	318.555	305.730	291.150	275.670
85	290.835	289.695	285.990	280.515	272.595	262.725	250.965	237.645	222.615	206.580
90	229.350	228.345	224.820	219.345	211.680	201.810	190.560	177.480	162.885	147.300
95	176.280	175.275	172.140	166.980	159.930	150.690	140.190	128.130	114.930	100.785
100	131.895	131.025	128.250	123.540	117.180	109.260	100.080	89.595	78.210	66.390
105	95.940	95.190	92.670	88.770	83.430	76.890	69.225	60.675	51.555	42.375
110	67.770	67.140	65.130	62.055	57.720	52.500	46.710	39.990	33.255	26.535
115	46.395	45.900	44.385	42.000	38.790	34.950	30.675	25.965	21.315	16.725
120	30.930	30.615	29.490	27.915	25.650	22.890	19.995	16.905	13.950	11.130
125	20.490	20.310	19.560	18.540	17.100	15.345	13.515	11.625	9.930	8.430
130	14.085	13.950	13.455	12.765	12.015	10.875	9.990	8.925	7.980	7.230
135	10.440	10.305	10.185	9.750	9.375	8.865	8.355	7.800	7.350	6.855
140	8.925	8.805	8.670	8.550	8.295	8.055	7.605	7.290	6.975	6.600
145	8.175	8.175	8.175	8.055	7.860	7.605	7.230	6.975	6.735	6.540
150	7.800	7.740	7.665	7.665	7.350	7.230	6.975	6.795	6.735	6.600
155	7.425	7.425	7.425	7.230	7.035	6.975	6.855	6.855	6.735	0.000
160	7.290	7.170	7.110	6.975	6.915	6.855	6.855	6.795	6.600	0.000
165	6.915	6.975	6.855	6.795	6.795	6.795	6.795	6.735	0.000	0.000
170	6.795	6.795	6.795	6.795	6.795	6.795	6.735	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	1319.355	1319.355	1319.355	1319.355	1319.355	1319.355	1319.355	1319.355	1319.355
5	1315.515	1315.395	1315.260	1315.260	1315.260	1315.260	1315.200	1315.260	1315.455
10	1300.110	1299.855	1299.795	1299.675	1299.420	1299.360	1299.420	1298.985	1299.225
15	1274.400	1273.830	1273.395	1273.020	1272.645	1272.255	1272.135	1272.075	1272.075
20	1237.305	1236.420	1235.610	1234.980	1234.230	1233.465	1233.225	1233.225	1232.850
25	1189.965	1188.645	1187.265	1186.125	1185.120	1184.505	1183.740	1183.680	1183.560
30	1132.815	1130.865	1129.230	1127.730	1126.410	1125.465	1124.580	1124.085	1123.950
35	1066.305	1064.175	1061.910	1059.825	1058.265	1057.065	1056.060	1055.430	1055.310
40	991.935	989.100	986.400	983.880	981.930	980.370	979.110	978.225	978.225
45	909.450	905.745	902.595	899.775	897.315	895.500	894.045	893.160	892.980
50	820.245	815.895	811.935	808.485	805.650	803.205	801.690	800.880	800.565
55	726.570	720.975	716.130	711.855	708.405	705.630	703.680	702.420	701.985
60	628.875	621.825	615.360	609.945	605.550	602.025	599.385	598.065	597.630

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_HO_359_S4.IES

CANDELA TABULATION - (Cont.)

65	530.100	520.800	512.565	505.335	499.425	494.835	491.505	489.435	488.865
70	433.980	421.785	410.535	400.155	391.920	385.515	380.850	378.030	377.085
75	342.450	327.735	313.275	299.385	287.685	278.190	271.155	267.315	265.935
80	259.335	242.865	225.825	208.590	193.200	179.550	169.500	163.710	161.700
85	189.105	171.135	152.700	133.665	115.935	99.390	85.065	76.770	74.430
90	130.320	112.905	95.115	76.635	59.670	43.320	28.485	16.290	9.060
95	85.620	70.350	55.200	40.110	26.970	15.585	6.915	2.385	2.010
100	54.000	41.940	30.555	20.175	12.015	6.105	2.895	2.265	0.000
105	33.075	24.450	16.905	10.500	6.225	3.585	2.835	0.000	0.000
110	20.175	14.520	9.870	6.345	4.395	3.525	3.075	0.000	0.000
115	12.630	9.300	6.795	5.100	4.275	0.000	0.000	0.000	0.000
120	8.865	6.975	5.715	4.965	0.000	0.000	0.000	0.000	0.000
125	7.110	6.225	5.595	0.000	0.000	0.000	0.000	0.000	0.000
130	6.600	6.030	5.535	0.000	0.000	0.000	0.000	0.000	0.000
135	6.420	5.970	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	6.345	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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	484.95	N.A.	11.10
0-30	1034.14	N.A.	23.60
0-40	1703.18	N.A.	38.80
0-60	3065.2	N.A.	69.90
0-80	3976.81	N.A.	90.60
0-90	4193.32	N.A.	95.60
10-90	4068.25	N.A.	92.70
20-40	1218.23	N.A.	27.80
20-50	1923.51	N.A.	43.80
40-70	1898.86	N.A.	43.30
60-80	911.61	N.A.	20.80
70-80	374.77	N.A.	8.50
80-90	216.51	N.A.	4.90
90-110	155.75	N.A.	3.50
90-120	176.67	N.A.	4.00
90-130	185.31	N.A.	4.20
90-150	192.16	N.A.	4.40
90-180	194.67	N.A.	4.40
110-180	38.92	N.A.	0.90
0-180	4387.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	125.07
10-20	359.87
20-30	549.19
30-40	669.04
40-50	705.28
50-60	656.74
60-70	536.84
70-80	374.77
80-90	216.51
90-100	106.58
100-110	49.17
110-120	20.92
120-130	8.64
130-140	4.29
140-150	2.57
150-160	1.60
160-170	0.82
170-180	0.09

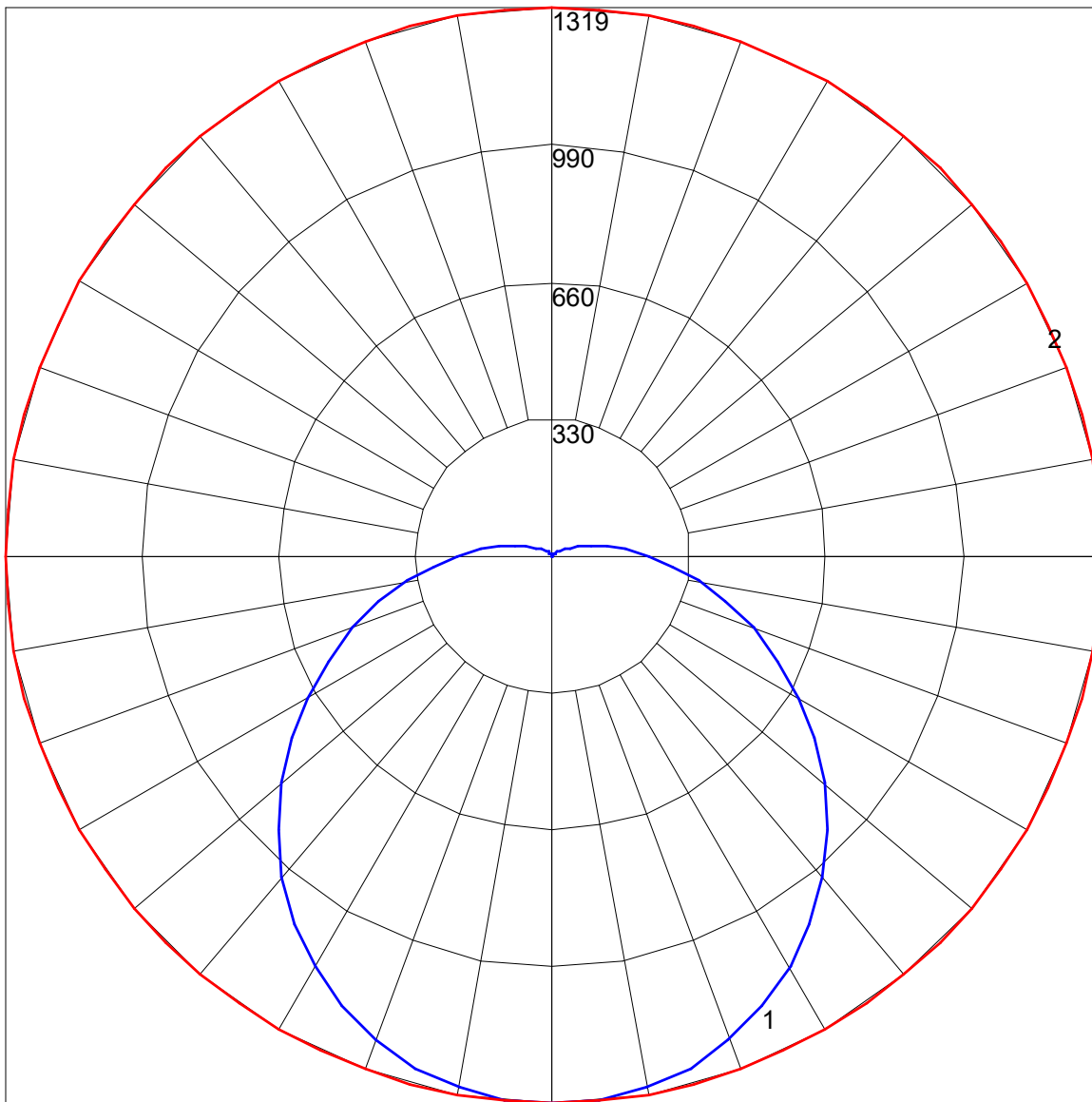
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PHOTOMETRIC FILENAME : VODE_707_Z2_HO_359_S4.IES

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	53	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 = 1319.355 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.)