

IES Report

ZipTwo® | 707 | Square 3554, Side Diffuse | 90 CRI | HO

707-Z2-4-48-XX-XX-X-0-Z-HO-359-J9-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	112	116	118	119
Total Lumens, 4' rail length (1219mm)	4417	4557	4650	4696
Lumens per foot (305mm)	1104	1139	1162	1174
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	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_HO_359_J9_WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011207 (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-HO-359-J9-WH

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

[MORE] square 3554, side diffuse lens, high output

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4650
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	39.55
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	0.17 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8406	6392	534
55	9585	7477	527
65	10365	8275	560
75	10883	9230	696
85	11428	10281	1589

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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	29.820	29.820	29.820	29.820	29.820	29.820	29.820	29.820	29.820	29.820
5	64.500	64.500	64.065	63.060	61.800	60.225	58.215	56.010	53.370	50.415
10	132.030	131.640	130.260	128.070	124.665	120.450	115.545	109.770	103.110	96.060
15	205.200	204.390	201.990	198.105	192.195	185.145	176.790	166.920	155.850	144.150
20	282.780	281.655	278.070	272.220	263.865	253.545	241.230	227.085	210.735	193.890
25	363.630	361.995	357.030	349.170	337.860	323.895	307.425	288.315	266.880	244.110
30	444.975	443.025	436.620	426.375	412.035	394.500	373.380	349.230	322.635	294.540
35	520.800	518.220	510.495	498.855	483.210	461.580	436.110	407.130	375.765	342.000
40	595.230	592.095	583.350	569.085	548.970	523.755	496.905	462.765	424.920	385.890
45	661.620	658.545	648.420	632.145	608.940	581.220	548.460	505.455	470.070	426.180
50	717.330	713.925	702.555	684.825	660.555	629.430	593.220	552.615	505.710	461.640
55	760.455	756.615	744.990	726.630	700.980	668.220	630.750	586.560	537.705	488.925
60	788.625	784.905	773.595	755.355	728.385	695.505	656.850	611.265	560.715	507.405
65	803.835	800.115	788.310	769.950	743.670	711.165	671.940	626.610	576.375	514.080
70	806.475	802.770	791.760	773.595	749.205	716.700	678.720	633.585	583.545	523.005
75	798.930	795.540	785.355	768.690	744.795	713.610	677.025	633.075	583.545	525.825
80	784.350	781.260	771.705	755.805	732.600	703.875	668.790	626.670	579.525	521.235
85	766.110	763.275	753.915	738.945	717.885	689.730	656.025	616.230	570.780	514.890
90	746.370	743.610	734.985	720.660	700.230	673.500	641.565	602.910	558.465	510.045
95	726.255	723.360	714.870	701.355	680.925	655.965	625.230	587.880	544.935	500.745
100	705.885	703.245	695.010	681.495	662.385	637.605	606.735	571.470	527.400	488.430
105	684.765	682.305	674.070	660.990	642.255	617.745	588.690	553.305	511.365	471.255
110	661.995	659.430	651.570	638.745	619.695	595.920	567.510	533.250	495.840	453.405
115	635.850	633.210	625.155	612.405	593.910	571.095	542.865	509.610	474.585	434.100
120	605.550	603.090	595.425	582.795	565.380	542.550	515.955	485.850	449.940	411.165
125	570.585	568.140	560.850	549.030	531.990	511.305	486.660	456.165	421.650	384.885
130	530.610	528.285	521.175	510.615	495.405	475.350	451.395	423.225	390.480	351.300
135	489.120	487.095	480.435	469.755	454.845	435.930	413.295	383.685	346.650	308.430
140	439.455	437.505	431.340	421.590	408.330	390.720	363.570	330.000	297.615	266.250
145	385.755	384.000	378.720	370.035	357.975	334.590	305.730	278.070	251.475	225.510
150	329.430	327.990	323.325	315.780	297.990	272.475	250.215	228.465	209.790	193.065
155	271.215	269.895	266.115	256.125	232.800	214.440	198.285	186.840	174.210	159.435
160	212.370	211.365	207.900	187.725	172.575	159.810	153.210	145.035	132.900	117.570
165	148.875	147.930	135.045	123.345	114.855	112.290	107.940	100.275	89.340	79.905
170	87.765	81.915	71.475	66.510	67.080	66.645	63.945	59.910	55.950	52.050
175	39.735	30.990	31.065	33.510	34.770	34.260	33.390	32.385	30.750	28.860
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	29.820	29.820	29.820	29.820	29.820	29.820	29.820	29.820	29.820
5	47.340	44.190	41.055	37.845	34.830	32.310	30.750	29.730	29.295
10	88.200	79.965	71.295	62.175	52.995	43.815	36.090	30.495	28.665
15	131.085	117.375	103.485	88.650	74.055	58.725	44.385	32.250	27.915
20	175.155	155.850	136.110	115.425	95.190	73.875	53.880	35.265	26.910
25	219.795	193.950	168.360	141.510	114.990	88.395	63.060	38.475	25.650
30	263.730	232.110	199.920	166.470	134.595	102.345	71.295	41.940	24.135
35	304.665	267.195	229.215	189.615	152.325	120.135	79.095	44.640	22.515
40	343.320	300.075	257.070	212.490	169.185	129.075	86.820	48.780	21.000
45	379.290	330.060	281.835	232.170	184.020	136.860	93.045	51.300	18.990
50	409.650	356.715	303.270	248.520	196.905	145.665	96.885	51.930	17.355
55	433.605	378.150	320.940	262.410	207.525	154.410	109.710	54.765	15.465
60	452.340	392.745	334.080	275.235	216.765	159.315	115.170	55.830	13.575

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CANDELA TABULATION - (Cont.)

65	466.110	406.005	344.700	281.265	221.730	162.450	115.110	54.885	12.450
70	472.455	412.725	350.685	286.245	225.630	165.780	114.735	55.575	11.820
75	473.835	413.415	352.380	290.520	228.345	167.790	115.245	56.145	10.065
80	473.460	414.120	352.755	288.255	227.145	165.660	114.795	54.570	8.430
85	467.925	409.905	349.485	285.855	225.450	165.285	113.670	52.620	9.930
90	458.805	402.105	343.140	282.465	222.930	163.515	111.660	52.935	8.175
95	449.250	393.300	336.660	276.615	217.395	158.370	110.970	51.240	6.420
100	437.055	383.625	327.735	268.380	211.740	154.215	108.630	46.395	7.545
105	422.040	371.295	316.410	259.770	205.020	150.765	105.555	44.445	6.165
110	406.065	355.455	304.155	251.415	197.790	143.340	96.690	40.485	5.535
115	388.395	340.815	291.015	238.335	187.095	135.165	85.560	33.885	5.910
120	367.080	322.575	275.055	224.760	176.220	127.620	78.465	28.665	6.285
125	343.005	298.380	251.970	205.635	159.375	118.065	66.705	24.900	6.420
130	308.685	265.995	223.815	180.495	140.070	97.575	56.325	20.685	6.795
135	270.960	233.805	196.590	158.805	121.965	83.430	45.015	17.925	7.170
140	234.000	202.305	171.435	136.545	102.795	69.660	37.035	16.155	7.800
145	201.870	177.795	144.540	113.220	84.300	55.455	31.125	14.895	8.175
150	173.640	146.550	118.950	93.795	68.280	46.590	28.230	14.655	8.925
155	136.920	114.855	95.940	74.505	56.085	40.050	25.275	14.400	10.065
160	102.540	86.880	71.040	57.465	45.075	33.390	22.005	13.710	10.815
165	70.470	61.425	52.815	43.890	35.265	26.220	18.540	13.140	11.445
170	47.340	42.435	37.275	31.560	25.395	19.995	15.465	13.080	12.075
175	26.535	24.135	21.315	18.735	16.530	14.655	13.515	12.765	12.570
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	44.73	N.A.	1.00
0-30	150.12	N.A.	3.20
0-40	349.24	N.A.	7.50
0-60	1059.43	N.A.	22.80
0-80	2047.59	N.A.	44.00
0-90	2561.12	N.A.	55.10
10-90	2555.25	N.A.	55.00
20-40	304.52	N.A.	6.50
20-50	609.93	N.A.	13.10
40-70	1186.55	N.A.	25.50
60-80	988.16	N.A.	21.30
70-80	511.80	N.A.	11.00
80-90	513.53	N.A.	11.00
90-110	938.02	N.A.	20.20
90-120	1324.77	N.A.	28.50
90-130	1634.43	N.A.	35.20
90-150	1993.24	N.A.	42.90
90-180	2088.54	N.A.	44.90
110-180	1150.52	N.A.	24.70
0-180	4649.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	5.87
10-20	38.86
20-30	105.39
30-40	199.12
40-50	305.42
50-60	404.77
60-70	476.36
70-80	511.80
80-90	513.53
90-100	490.40
100-110	447.62
110-120	386.75
120-130	309.66
130-140	221.73
140-150	137.08
150-160	69.05
160-170	23.29
170-180	2.96

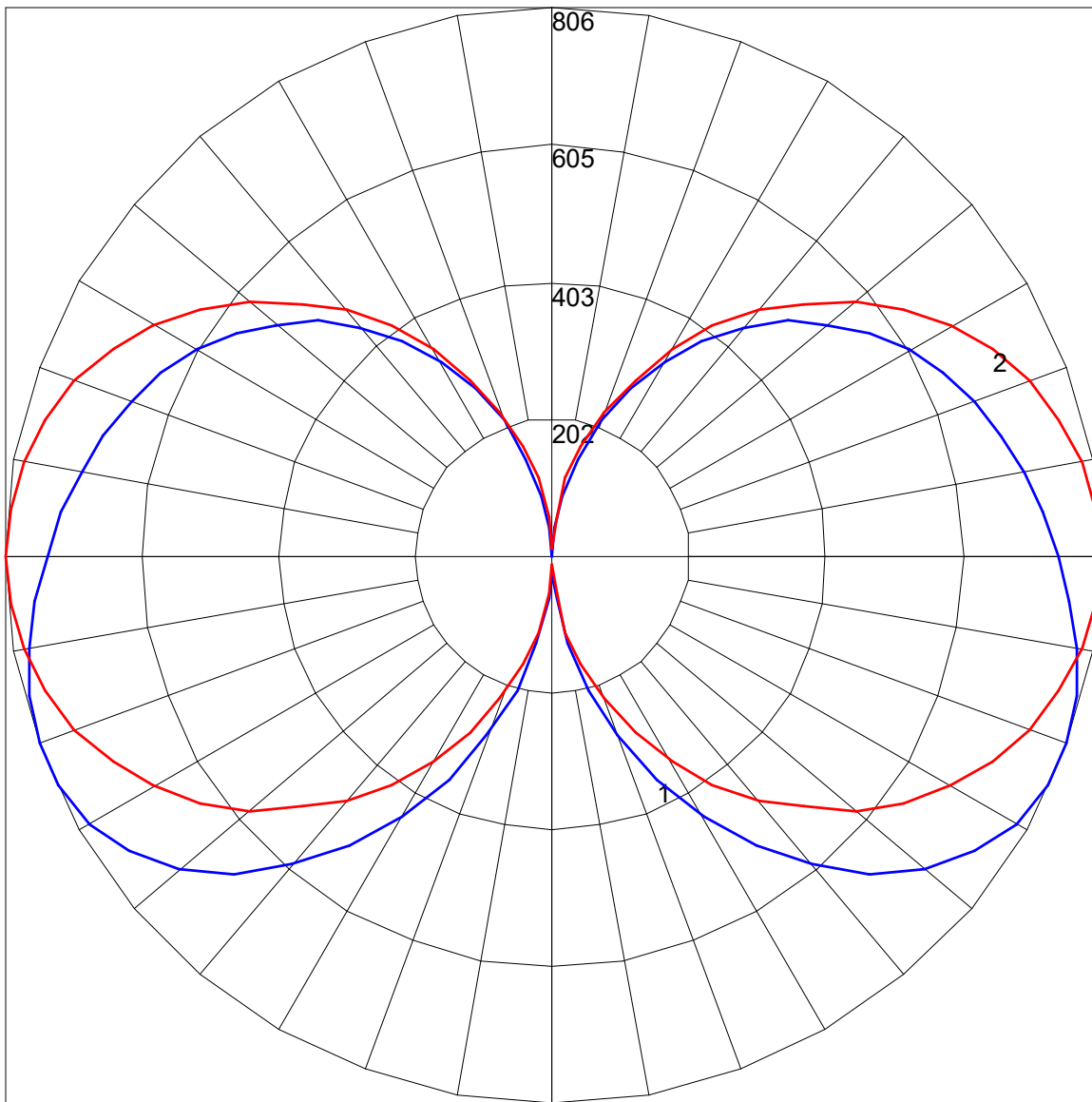
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	93	86	80	75	86	80	74	69	67	63	59	55	52	49	45	42	40	34
2	82	72	63	56	75	66	59	52	55	49	44	45	40	36	36	32	29	24
3	74	61	52	44	67	56	48	41	47	40	34	38	33	28	30	26	22	18
4	67	53	43	35	61	49	40	33	40	33	28	33	27	22	25	21	17	14
5	60	46	37	29	55	43	34	27	35	28	23	29	23	18	22	18	14	11
6	55	41	31	24	50	38	29	23	31	24	19	25	20	15	20	15	12	8
7	51	37	27	21	46	34	25	19	28	21	16	23	17	13	18	13	10	7
8	47	33	24	18	43	30	22	16	25	18	14	20	15	11	16	12	8	6
9	43	30	21	15	40	27	20	14	23	16	12	19	13	10	15	10	7	5
10	40	27	19	14	37	25	17	12	21	15	10	17	12	8	13	9	6	4

POLAR GRAPH



Maximum Candela = 806.475 Located At Horizontal Angle = 0, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)