

IES Report

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

707-Z2-4-48-XX-XX-X-0-Z-HO-359-S9-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	85	87	89	91
Total Lumens, 4' rail length (1219mm)	3315	3419	3489	3559
Lumens per foot (305mm)	829	855	872	890
Input Power (W), 4' rail length (1219mm)	39.4	39.4	39.4	39.4
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_S9.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L031905301 (SOURCE REPORT FOR REFERENCE)
 [TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
 [ISSUEDATE] 3/25/2019
 [MANUFAC] Vode Lighting
 [LUMCAT] 707-Z2-48-Z-HO-359-S9-AL
 [LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, zipper board,
 [MORE] square profile 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	3488
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	39.36
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)	0.12 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.12 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8782	6025	116
55	10352	7408	132
65	11027	8555	176
75	11111	9454	225
85	11392	10575	505

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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	37.095	37.035	36.660	35.955	34.950	33.630	32.190	30.495	28.410	26.280
10	82.740	82.425	81.480	79.710	77.325	74.190	70.605	66.270	61.545	56.520
15	136.545	135.855	133.905	131.025	126.555	120.960	114.540	106.935	98.700	89.970
20	198.030	196.965	194.070	189.300	182.565	173.955	164.085	152.580	140.190	126.810
25	265.935	264.480	260.340	253.545	244.185	231.915	218.160	202.245	184.890	166.470
30	338.730	336.915	331.185	322.080	309.570	293.400	275.175	254.490	231.795	208.290
35	413.925	411.600	404.175	392.490	376.890	356.595	333.705	307.860	279.510	250.275
40	487.605	484.530	475.785	461.835	442.470	418.635	390.915	359.790	326.160	291.270
45	554.370	551.040	540.855	524.955	502.950	475.665	443.730	408.015	369.285	328.680
50	608.190	604.290	593.670	576.495	552.795	523.185	488.805	449.070	406.320	361.365
55	643.515	640.005	629.115	611.835	587.625	557.070	520.920	480.570	434.790	386.955
60	658.350	655.215	644.895	628.365	605.175	574.935	539.850	498.795	453.210	405.255
65	654.075	651.000	641.820	626.985	605.355	577.320	544.065	504.825	460.575	413.415
70	634.965	632.520	624.465	611.145	591.525	567.135	536.460	499.935	458.430	413.295
75	607.425	605.040	598.005	586.500	569.460	547.335	519.915	486.975	448.755	406.065
80	577.755	575.685	569.460	559.335	544.125	524.445	500.115	469.875	435.045	395.625
85	550.845	549.030	543.240	533.940	520.170	502.260	480.120	452.895	419.640	383.625
90	529.470	527.715	522.495	513.510	500.430	483.705	462.900	436.815	406.185	372.060
95	514.005	512.190	507.030	498.420	485.715	469.245	449.190	424.110	394.620	361.875
100	503.070	501.435	496.155	487.545	474.780	458.430	438.375	413.550	384.570	352.695
105	494.025	492.450	487.170	478.170	465.600	448.815	428.700	403.800	375.075	343.455
110	484.590	482.700	477.300	468.180	455.295	438.195	417.885	392.985	364.320	333.135
115	472.020	470.010	464.160	455.160	442.095	424.800	404.430	379.665	351.315	320.880
120	454.410	452.460	446.805	437.565	424.485	407.325	387.135	362.880	335.280	305.790
125	431.400	429.585	423.855	414.810	401.985	385.320	365.835	342.375	316.545	287.940
130	402.615	400.845	395.310	386.760	374.445	358.665	339.870	318.180	292.650	261.150
135	368.790	367.155	362.115	353.955	342.630	327.675	310.500	285.360	257.010	229.530
140	330.945	329.430	324.900	317.355	307.110	293.535	270.015	245.370	221.805	198.795
145	290.205	288.750	284.670	278.250	268.830	247.830	227.010	207.270	188.040	169.875
150	247.320	246.195	242.730	237.015	219.975	202.245	186.405	170.745	157.860	145.410
155	203.070	202.065	199.035	187.605	171.255	158.490	147.240	140.325	131.025	119.205
160	157.425	156.600	151.830	136.425	125.985	117.945	114.300	107.760	98.205	85.875
165	107.880	106.755	94.425	86.640	81.600	80.730	77.895	72.495	65.955	60.480
170	61.110	54.765	49.230	47.775	50.550	51.360	49.665	47.910	45.585	42.690
175	30.300	24.450	24.960	27.480	28.980	29.040	28.545	27.660	26.535	25.020
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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	23.895	21.315	18.675	15.975	13.080	10.245	7.545	5.535	4.905
10	50.925	45.210	39.105	33.000	26.655	20.250	13.830	7.740	4.785
15	80.475	70.785	60.795	50.730	40.740	30.615	20.430	10.875	4.650
20	112.350	98.205	83.685	69.150	54.885	40.935	27.030	14.085	4.650
25	146.985	127.365	107.760	87.885	69.405	51.240	33.570	17.220	4.395
30	182.760	157.860	132.345	107.250	83.925	61.425	39.990	20.250	4.395
35	219.165	188.160	156.975	126.555	98.265	71.415	46.080	23.130	4.395
40	254.115	217.590	181.245	145.095	112.095	80.850	51.735	25.530	3.780
45	286.740	244.815	203.445	162.270	124.920	89.655	56.325	27.855	3.780
50	315.030	268.575	222.930	177.480	136.170	96.945	60.990	30.045	3.525
55	337.605	287.940	238.770	189.930	145.725	103.425	65.445	31.755	3.525
60	353.565	302.025	250.785	199.605	153.210	108.570	68.595	33.135	3.525

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CANDELA TABULATION - (Cont.)

65	361.875	310.185	258.270	205.890	158.115	112.290	70.980	34.830	3.525
70	363.570	312.135	261.465	209.355	161.130	114.480	72.420	35.520	3.015
75	359.790	310.260	261.225	210.675	162.135	115.545	73.305	35.955	2.895
80	351.555	305.355	258.330	209.220	161.700	115.620	73.500	36.030	2.760
85	342.375	298.815	253.680	206.400	160.695	114.855	73.305	36.090	2.640
90	333.195	291.525	248.400	202.560	157.545	113.295	73.050	35.715	2.520
95	324.465	284.355	241.980	198.480	154.650	112.155	72.105	35.955	2.895
100	316.800	277.245	236.130	193.125	151.260	110.025	70.920	35.520	3.015
105	308.175	269.700	228.960	187.980	147.420	107.385	69.465	33.390	3.150
110	298.065	261.090	222.240	182.445	142.830	104.235	67.590	28.860	3.390
115	286.560	250.785	213.375	175.275	137.805	100.335	63.375	26.220	3.645
120	272.850	238.590	202.935	166.665	130.260	94.050	56.580	22.440	4.020
125	255.750	221.415	185.895	151.380	117.495	84.240	46.905	19.050	4.275
130	228.585	197.085	165.915	134.790	103.860	72.735	39.615	16.980	4.785
135	201.120	174.210	146.490	117.630	91.215	59.790	34.890	15.210	5.160
140	174.960	152.205	126.930	102.225	75.510	51.180	31.065	13.950	5.280
145	152.145	133.095	108.195	83.745	61.800	43.260	26.715	12.825	5.535
150	130.635	109.455	88.395	68.775	52.245	38.670	24.525	12.885	6.420
155	101.400	84.870	70.605	55.950	44.760	33.705	22.065	13.140	7.290
160	75.315	64.755	54.765	46.215	38.160	29.430	20.310	13.020	8.175
165	54.825	49.290	43.755	37.470	31.185	24.330	18.240	12.390	8.925
170	39.360	35.775	31.815	27.660	23.265	19.110	14.895	11.130	9.435
175	23.325	21.495	19.425	17.415	15.345	13.335	11.310	10.065	9.555
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	27.55	N.A.	0.80
0-30	100.70	N.A.	2.90
0-40	249.72	N.A.	7.20
0-60	816.70	N.A.	23.40
0-80	1580.68	N.A.	45.30
0-90	1953.71	N.A.	56.00
10-90	1950.71	N.A.	55.90
20-40	222.17	N.A.	6.40
20-50	463.42	N.A.	13.30
40-70	943.67	N.A.	27.10
60-80	763.98	N.A.	21.90
70-80	387.29	N.A.	11.10
80-90	373.03	N.A.	10.70
90-110	675.60	N.A.	19.40
90-120	961.96	N.A.	27.60
90-130	1194.00	N.A.	34.20
90-150	1463.12	N.A.	41.90
90-180	1534.75	N.A.	44.00
110-180	859.14	N.A.	24.60
0-180	3488.46	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	3.00
10-20	24.55
20-30	73.15
30-40	149.02
40-50	241.25
50-60	325.74
60-70	376.68
70-80	387.29
80-90	373.03
90-100	351.11
100-110	324.50
110-120	286.36
120-130	232.04
130-140	166.30
140-150	102.82
150-160	51.72
160-170	17.51
170-180	2.39

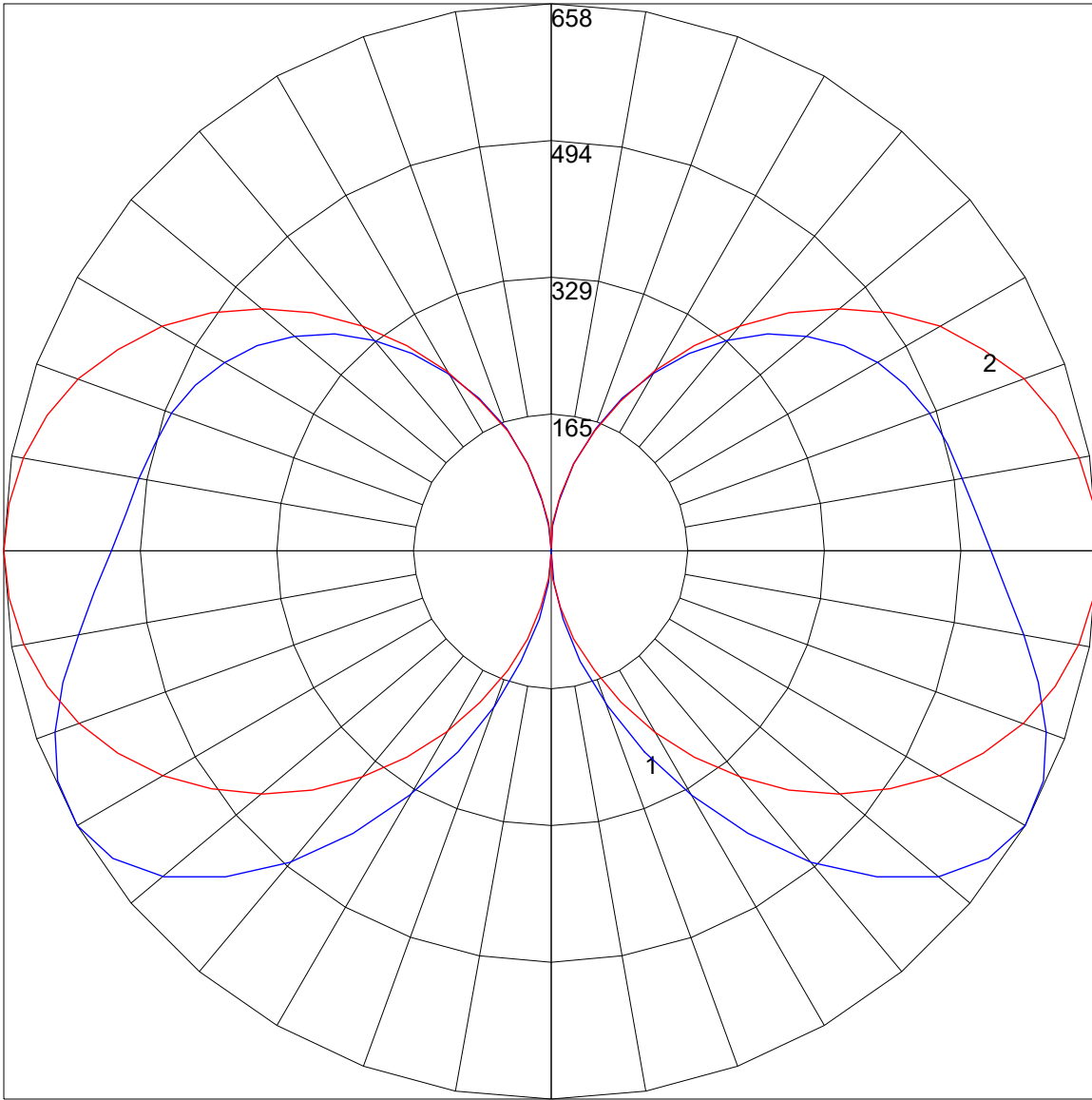
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	93	87	80	75	86	80	75	70	67	63	59	56	53	50	45	43	41	35
2	83	72	64	56	76	66	59	52	56	50	44	46	41	37	36	33	30	25
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	26	21	18	14
5	60	46	36	29	55	42	34	27	35	28	22	29	23	18	22	18	14	11
6	55	41	31	24	50	37	29	22	31	24	19	25	20	15	20	15	12	8
7	51	36	27	21	46	33	25	19	28	21	16	23	17	13	18	13	10	7
8	47	33	24	18	43	30	22	16	25	18	13	20	15	11	16	12	8	6
9	43	29	21	15	40	27	19	14	23	16	12	19	13	9	15	10	7	5
10	40	27	19	13	37	25	17	12	21	14	10	17	12	8	13	9	6	4

POLAR GRAPH



Maximum Candela = 658.35 Located At Horizontal Angle = 0, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)