

IES Report

ZipTwo® | 707 | Square 3572, Side Diffuse | 90 CRI | LO

707-Z2-4-48-XX-XX-X-0-Z-LO-359-H9-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	105	109	111	112
Total Lumens, 4' rail length (1219mm)	1560	1609	1642	1659
Lumens per foot (305mm)	390	402	411	415
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_H9_WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011202 (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-H9-WH

[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, zipper board, square 3572,

[MORE] 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	1642
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
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	0.22 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2621	2007	248
55	2906	2305	239
65	3050	2498	204
75	3100	2708	223
85	3138	2911	398

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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	12.980	12.980	12.980	12.980	12.980	12.980	12.980	12.980	12.980	12.980
5	20.160	20.120	19.950	19.615	19.070	18.400	17.625	16.805	15.990	15.275
10	45.265	45.100	44.615	43.735	42.480	40.885	38.980	36.715	34.200	31.520
15	72.720	72.425	71.525	70.035	67.855	65.090	61.885	58.130	53.920	49.455
20	101.845	101.385	100.065	97.865	94.660	90.655	86.025	80.535	74.415	68.045
25	132.065	131.415	129.550	126.635	122.280	117.020	110.815	103.460	95.330	86.905
30	161.615	160.840	158.450	154.720	149.310	142.985	135.165	126.135	115.885	105.325
35	190.155	189.235	186.510	181.940	175.570	167.585	157.945	147.635	135.940	123.325
40	216.980	215.890	212.600	207.255	199.940	190.195	180.160	167.545	152.495	139.400
45	240.700	239.445	235.795	230.035	221.525	211.280	199.315	185.565	169.975	153.020
50	260.150	258.830	254.785	248.455	239.550	228.420	215.365	200.360	184.435	166.600
55	274.690	273.265	269.180	262.495	253.420	241.685	228.125	212.180	194.410	176.305
60	283.785	282.405	278.400	271.865	262.515	250.615	236.760	220.435	202.120	183.135
65	287.850	286.575	282.570	275.990	266.770	255.305	241.580	225.300	207.215	185.880
70	287.305	286.155	282.255	276.055	267.400	256.165	242.650	226.890	209.140	190.115
75	283.115	282.005	278.505	272.745	264.505	253.735	241.015	225.675	208.240	189.695
80	276.450	275.360	272.135	266.730	258.830	248.960	237.035	222.365	205.705	187.765
85	268.320	267.355	264.215	259.245	252.080	242.775	231.040	217.650	202.205	185.085
90	259.770	258.935	255.955	251.410	244.620	235.775	225.025	211.930	196.775	178.670
95	251.220	250.320	247.660	243.235	236.700	228.315	218.130	205.640	191.120	174.650
100	242.715	241.875	239.190	234.915	228.650	220.560	210.795	198.935	185.230	169.745
105	234.245	233.430	230.895	226.660	220.770	212.890	203.400	191.830	178.670	164.820
110	225.445	224.605	222.195	218.130	212.265	204.575	195.395	184.185	170.395	157.925
115	215.930	215.135	212.725	208.615	202.815	195.560	186.635	175.865	164.275	150.610
120	205.410	204.655	202.185	198.305	192.775	185.565	176.850	167.145	155.785	142.775
125	193.675	192.880	190.615	186.905	181.460	174.565	166.560	157.110	145.835	133.720
130	180.430	179.720	177.500	173.975	169.155	162.935	155.200	146.065	135.145	122.595
135	166.390	165.760	163.790	160.525	155.765	149.670	142.335	132.755	120.835	108.575
140	150.800	150.150	148.265	145.165	140.865	135.190	126.430	115.425	104.655	94.200
145	133.365	132.880	131.185	128.440	124.480	116.870	107.335	98.010	89.040	80.535
150	115.050	114.610	113.185	110.730	104.865	96.315	88.770	81.475	75.230	69.595
155	95.935	95.600	94.385	90.780	82.945	76.635	71.250	67.330	63.080	58.005
160	75.985	75.670	74.415	67.330	62.070	58.050	55.910	53.040	49.165	43.485
165	54.530	54.215	49.415	45.225	42.540	41.680	40.110	37.660	33.700	30.450
170	33.490	30.850	26.740	25.020	25.420	25.525	24.790	23.385	21.960	20.390
175	15.380	11.570	11.525	12.700	13.515	13.455	13.180	12.740	12.135	11.485
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	12.980	12.980	12.980	12.980	12.980	12.980	12.980	12.980	12.980
5	14.630	14.165	13.745	13.475	13.285	13.205	13.140	13.100	13.160
10	28.480	25.460	22.215	18.860	15.845	14.085	13.225	12.995	13.035
15	44.555	39.460	34.160	28.750	23.260	17.750	13.875	12.805	12.785
20	61.025	53.775	46.290	38.705	31.080	23.450	15.990	12.595	12.365
25	77.620	68.150	58.425	48.575	38.875	29.025	19.510	12.530	11.905
30	94.135	82.020	70.265	58.005	45.980	34.035	22.820	12.680	11.235
35	109.475	95.495	81.370	66.705	53.605	39.125	26.990	13.120	10.560
40	123.685	107.880	91.450	74.920	59.180	43.880	29.420	14.795	9.810
45	136.550	118.675	100.610	82.795	65.090	48.805	31.475	15.905	8.930
50	147.930	128.440	108.845	88.580	69.700	51.005	33.090	16.410	7.585
55	155.705	136.090	115.235	93.755	73.600	54.195	34.785	17.480	7.125
60	160.565	141.180	119.850	98.370	76.995	56.015	36.465	18.360	6.160

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CANDELA TABULATION - (Cont.)

65	166.370	145.810	123.600	100.570	78.920	57.315	37.430	18.525	4.650
70	168.150	147.910	125.610	102.265	80.345	58.655	39.565	18.505	4.275
75	167.290	148.095	126.260	103.290	80.975	59.495	39.940	19.260	3.355
80	167.060	147.300	125.820	103.190	80.930	58.885	39.650	19.240	2.475
85	165.470	145.750	124.460	101.845	80.285	58.470	38.810	18.545	2.725
90	162.345	142.920	122.280	100.210	79.130	58.365	38.980	18.905	2.345
95	158.135	138.730	119.070	98.660	77.850	56.940	38.580	18.610	1.970
100	153.610	135.250	115.950	95.265	75.440	55.155	37.950	17.580	1.720
105	147.930	130.600	112.075	92.145	73.055	53.750	37.430	16.640	1.635
110	141.725	124.815	107.315	89.145	70.560	51.845	35.665	15.130	1.760
115	135.650	119.535	102.620	84.560	67.165	49.290	33.110	13.035	2.140
120	128.315	113.080	97.110	80.050	63.600	46.730	30.595	10.605	2.515
125	119.975	105.135	89.735	73.575	58.005	43.335	24.580	9.515	2.890
130	108.550	94.240	80.075	65.570	51.365	36.675	20.810	8.360	3.185
135	95.685	83.260	70.725	57.755	44.805	30.890	17.140	7.125	3.435
140	83.175	72.760	62.135	50.020	37.950	25.900	14.395	6.455	3.690
145	72.530	64.295	52.745	41.890	31.160	21.020	12.320	5.825	3.940
150	62.785	53.500	43.695	34.535	25.735	17.665	11.210	5.720	4.485
155	50.045	42.330	35.205	27.935	21.395	15.465	9.955	6.015	5.155
160	37.950	32.585	27.095	22.340	17.710	13.035	8.885	6.390	5.910
165	27.095	23.910	20.725	17.330	13.810	10.355	7.795	6.705	6.495
170	18.545	16.575	14.480	12.280	10.060	8.235	7.315	7.060	7.000
175	10.665	9.830	8.930	8.255	7.840	7.525	7.440	7.420	7.375
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	15.47	N.A.	0.90
0-30	53.04	N.A.	3.20
0-40	124.74	N.A.	7.60
0-60	380.76	N.A.	23.20
0-80	733.31	N.A.	44.70
0-90	914.40	N.A.	55.70
10-90	912.41	N.A.	55.60
20-40	109.27	N.A.	6.70
20-50	219.63	N.A.	13.40
40-70	426.55	N.A.	26.00
60-80	352.55	N.A.	21.50
70-80	182.01	N.A.	11.10
80-90	181.10	N.A.	11.00
90-110	326.70	N.A.	19.90
90-120	460.38	N.A.	28.00
90-130	567.46	N.A.	34.60
90-150	692.97	N.A.	42.20
90-180	727.78	N.A.	44.30
110-180	401.09	N.A.	24.40
0-180	1642.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1.99
10-20	13.48
20-30	37.56
30-40	71.71
40-50	110.36
50-60	145.66
60-70	170.54
70-80	182.01
80-90	181.10
90-100	171.39
100-110	155.31
110-120	133.68
120-130	107.08
130-140	77.14
140-150	48.38
150-160	24.90
160-170	8.73
170-180	1.18

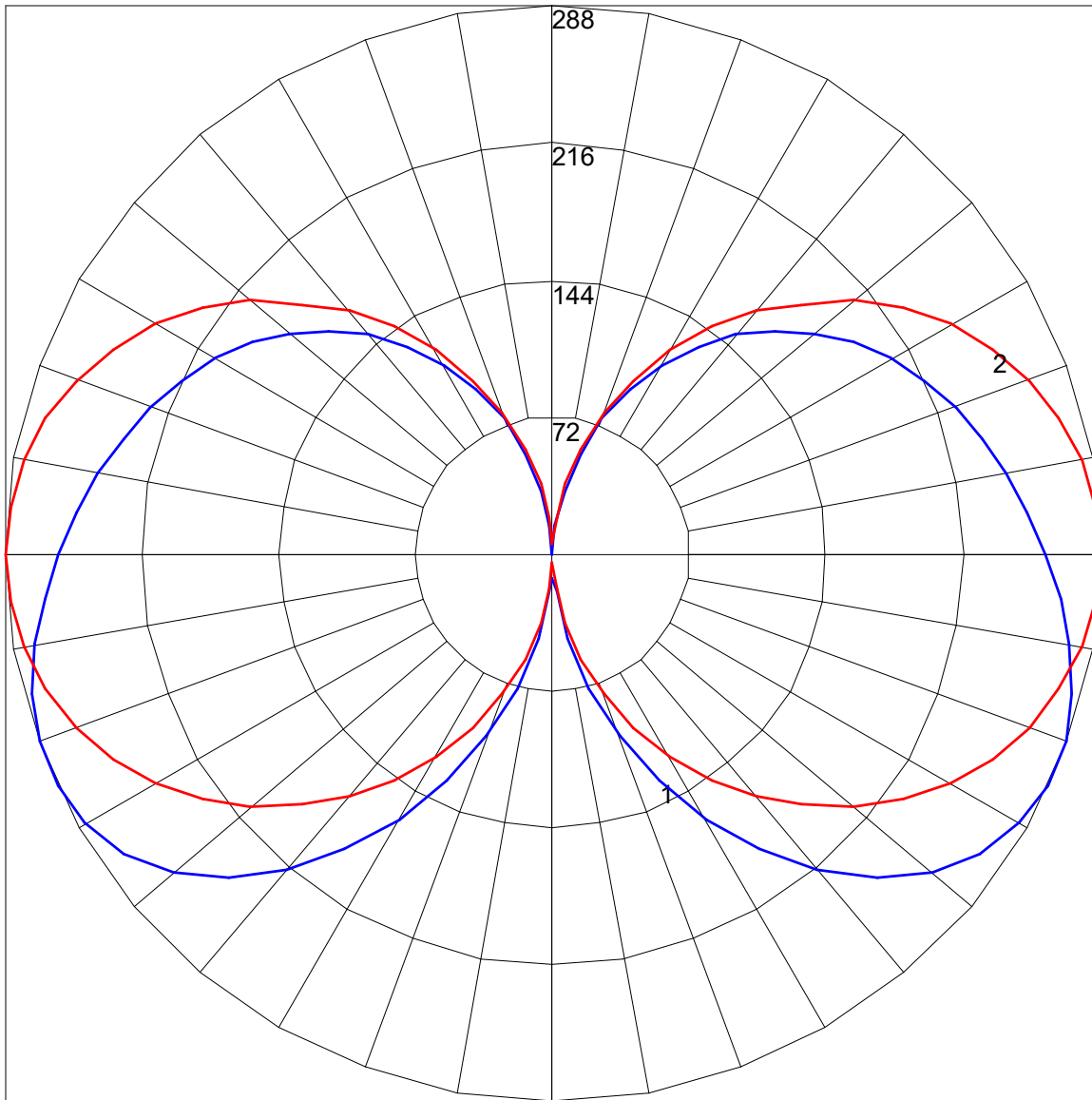
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	86	86	86	73	73	73	61	61	61	56
1	93	86	80	75	86	80	74	69	67	63	59	56	52	49	45	43	40	35
2	83	72	64	56	75	66	59	52	55	49	44	45	41	37	36	33	29	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	23	26	21	18	14
5	61	46	36	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	9
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	21	15	11	16	12	8	6
9	44	30	21	15	40	27	20	14	23	16	12	19	13	10	15	10	7	5
10	41	27	19	14	37	25	17	12	21	15	10	17	12	8	13	9	6	4

POLAR GRAPH



Maximum Candela = 287.85 Located At Horizontal Angle = 0, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)