

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	99	103	105	106
Total Lumens, 4' rail length (1219mm)	1472	1519	1550	1565
Lumens per foot (305mm)	368	380	387	391
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_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-LO-359-J9-WH
[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, zipper board,
[MORE] square 3554, 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	1550
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
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	0.17 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2802	2131	178
55	3195	2492	176
65	3455	2758	187
75	3628	3077	232
85	3809	3427	530

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	9.940	9.940	9.940	9.940	9.940	9.940	9.940	9.940	9.940	9.940
5	21.500	21.500	21.355	21.020	20.600	20.075	19.405	18.670	17.790	16.805
10	44.010	43.880	43.420	42.690	41.555	40.150	38.515	36.590	34.370	32.020
15	68.400	68.130	67.330	66.035	64.065	61.715	58.930	55.640	51.950	48.050
20	94.260	93.885	92.690	90.740	87.955	84.515	80.410	75.695	70.245	64.630
25	121.210	120.665	119.010	116.390	112.620	107.965	102.475	96.105	88.960	81.370
30	148.325	147.675	145.540	142.125	137.345	131.500	124.460	116.410	107.545	98.180
35	173.600	172.740	170.165	166.285	161.070	153.860	145.370	135.710	125.255	114.000
40	198.410	197.365	194.450	189.695	182.990	174.585	165.635	154.255	141.640	128.630
45	220.540	219.515	216.140	210.715	202.980	193.740	182.820	168.485	156.690	142.060
50	239.110	237.975	234.185	228.275	220.185	209.810	197.740	184.205	168.570	153.880
55	253.485	252.205	248.330	242.210	233.660	222.740	210.250	195.520	179.235	162.975
60	262.875	261.635	257.865	251.785	242.795	231.835	218.950	203.755	186.905	169.135
65	267.945	266.705	262.770	256.650	247.890	237.055	223.980	208.870	192.125	171.360
70	268.825	267.590	263.920	257.865	249.735	238.900	226.240	211.195	194.515	174.335
75	266.310	265.180	261.785	256.230	248.265	237.870	225.675	211.025	194.515	175.275
80	261.450	260.420	257.235	251.935	244.200	234.625	222.930	208.890	193.175	173.745
85	255.370	254.425	251.305	246.315	239.295	229.910	218.675	205.410	190.260	171.630
90	248.790	247.870	244.995	240.220	233.410	224.500	213.855	200.970	186.155	170.015
95	242.085	241.120	238.290	233.785	226.975	218.655	208.410	195.960	181.645	166.915
100	235.295	234.415	231.670	227.165	220.795	212.535	202.245	190.490	175.800	162.810
105	228.255	227.435	224.690	220.330	214.085	205.915	196.230	184.435	170.455	157.085
110	220.665	219.810	217.190	212.915	206.565	198.640	189.170	177.750	165.280	151.135
115	211.950	211.070	208.385	204.135	197.970	190.365	180.955	169.870	158.195	144.700
120	201.850	201.030	198.475	194.265	188.460	180.850	171.985	161.950	149.980	137.055
125	190.195	189.380	186.950	183.010	177.330	170.435	162.220	152.055	140.550	128.295
130	176.870	176.095	173.725	170.205	165.135	158.450	150.465	141.075	130.160	117.100
135	163.040	162.365	160.145	156.585	151.615	145.310	137.765	127.895	115.550	102.810
140	146.485	145.835	143.780	140.530	136.110	130.240	121.190	110.000	99.205	88.750
145	128.585	128.000	126.240	123.345	119.325	111.530	101.910	92.690	83.825	75.170
150	109.810	109.330	107.775	105.260	99.330	90.825	83.405	76.155	69.930	64.355
155	90.405	89.965	88.705	85.375	77.600	71.480	66.095	62.280	58.070	53.145
160	70.790	70.455	69.300	62.575	57.525	53.270	51.070	48.345	44.300	39.190
165	49.625	49.310	45.015	41.115	38.285	37.430	35.980	33.425	29.780	26.635
170	29.255	27.305	23.825	22.170	22.360	22.215	21.315	19.970	18.650	17.350
175	13.245	10.330	10.355	11.170	11.590	11.420	11.130	10.795	10.250	9.620
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. 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	9.940	9.940	9.940	9.940	9.940	9.940	9.940	9.940	9.940
5	15.780	14.730	13.685	12.615	11.610	10.770	10.250	9.910	9.765
10	29.400	26.655	23.765	20.725	17.665	14.605	12.030	10.165	9.555
15	43.695	39.125	34.495	29.550	24.685	19.575	14.795	10.750	9.305
20	58.385	51.950	45.370	38.475	31.730	24.625	17.960	11.755	8.970
25	73.265	64.650	56.120	47.170	38.330	29.465	21.020	12.825	8.550
30	87.910	77.370	66.640	55.490	44.865	34.115	23.765	13.980	8.045
35	101.555	89.065	76.405	63.205	50.775	40.045	26.365	14.880	7.505
40	114.440	100.025	85.690	70.830	56.395	43.025	28.940	16.260	7.000
45	126.430	110.020	93.945	77.390	61.340	45.620	31.015	17.100	6.330
50	136.550	118.905	101.090	82.840	65.635	48.555	32.295	17.310	5.785
55	144.535	126.050	106.980	87.470	69.175	51.470	36.570	18.255	5.155
60	150.780	130.915	111.360	91.745	72.255	53.105	38.390	18.610	4.525

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CANDELA TABULATION - (Cont.)

65	155.370	135.335	114.900	93.755	73.910	54.150	38.370	18.295	4.150
70	157.485	137.575	116.895	95.415	75.210	55.260	38.245	18.525	3.940
75	157.945	137.805	117.460	96.840	76.115	55.930	38.415	18.715	3.355
80	157.820	138.040	117.585	96.085	75.715	55.220	38.265	18.190	2.810
85	155.975	136.635	116.495	95.285	75.150	55.095	37.890	17.540	3.310
90	152.935	134.035	114.380	94.155	74.310	54.505	37.220	17.645	2.725
95	149.750	131.100	112.220	92.205	72.465	52.790	36.990	17.080	2.140
100	145.685	127.875	109.245	89.460	70.580	51.405	36.210	15.465	2.515
105	140.680	123.765	105.470	86.590	68.340	50.255	35.185	14.815	2.055
110	135.355	118.485	101.385	83.805	65.930	47.780	32.230	13.495	1.845
115	129.465	113.605	97.005	79.445	62.365	45.055	28.520	11.295	1.970
120	122.360	107.525	91.685	74.920	58.740	42.540	26.155	9.555	2.095
125	114.335	99.460	83.990	68.545	53.125	39.355	22.235	8.300	2.140
130	102.895	88.665	74.605	60.165	46.690	32.525	18.775	6.895	2.265
135	90.320	77.935	65.530	52.935	40.655	27.810	15.005	5.975	2.390
140	78.000	67.435	57.145	45.515	34.265	23.220	12.345	5.385	2.600
145	67.290	59.265	48.180	37.740	28.100	18.485	10.375	4.965	2.725
150	57.880	48.850	39.650	31.265	22.760	15.530	9.410	4.885	2.975
155	45.640	38.285	31.980	24.835	18.695	13.350	8.425	4.800	3.355
160	34.180	28.960	23.680	19.155	15.025	11.130	7.335	4.570	3.605
165	23.490	20.475	17.605	14.630	11.755	8.740	6.180	4.380	3.815
170	15.780	14.145	12.425	10.520	8.465	6.665	5.155	4.360	4.025
175	8.845	8.045	7.105	6.245	5.510	4.885	4.505	4.255	4.190
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	14.91	N.A.	1.00
0-30	50.04	N.A.	3.20
0-40	116.41	N.A.	7.50
0-60	353.14	N.A.	22.80
0-80	682.53	N.A.	44.00
0-90	853.71	N.A.	55.10
10-90	851.75	N.A.	55.00
20-40	101.51	N.A.	6.50
20-50	203.31	N.A.	13.10
40-70	395.52	N.A.	25.50
60-80	329.39	N.A.	21.30
70-80	170.60	N.A.	11.00
80-90	171.18	N.A.	11.00
90-110	312.67	N.A.	20.20
90-120	441.59	N.A.	28.50
90-130	544.81	N.A.	35.20
90-150	664.41	N.A.	42.90
90-180	696.18	N.A.	44.90
110-180	383.51	N.A.	24.70
0-180	1549.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1.96
10-20	12.95
20-30	35.13
30-40	66.37
40-50	101.81
50-60	134.92
60-70	158.79
70-80	170.60
80-90	171.18
90-100	163.47
100-110	149.21
110-120	128.92
120-130	103.22
130-140	73.91
140-150	45.69
150-160	23.02
160-170	7.76
170-180	0.99

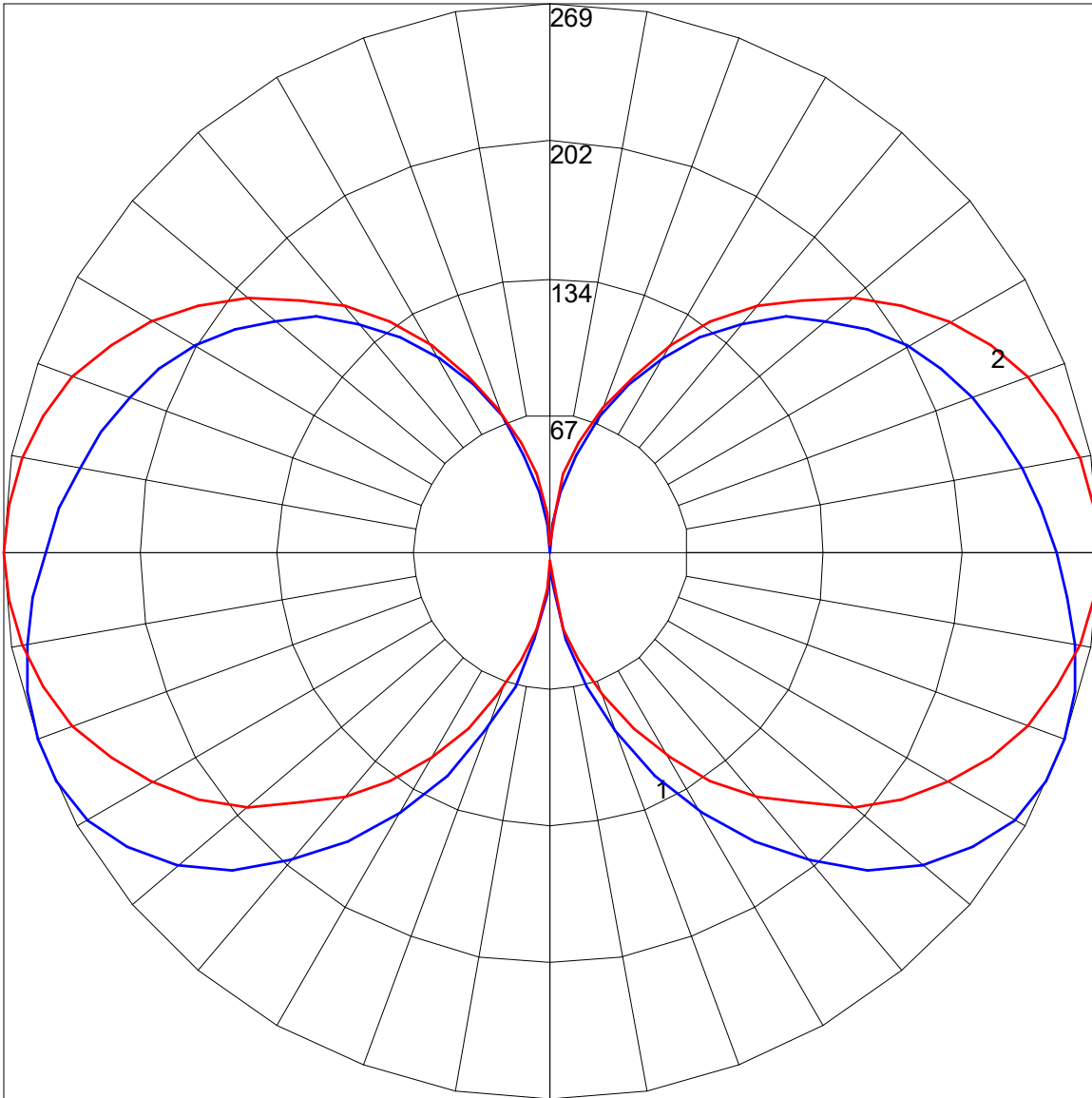
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	
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 = 268.825 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.)