

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	96	99	101	102
Total Lumens, 4' rail length (1219mm)	1426	1471	1501	1516
Lumens per foot (305mm)	356	368	375	379
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_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L082011208 (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-BL
[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, zipper board,
[MORE] square 3554, side diffuse black lens, low output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1501
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
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	2788	2098	230
55	3151	2441	221
65	3396	2713	217
75	3539	2985	235
85	3694	3357	362

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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	11.645	11.645	11.645	11.645	11.645	11.645	11.645	11.645	11.645	11.645
5	22.925	22.925	22.715	22.865	22.215	21.605	20.790	19.805	18.985	18.065
10	45.600	45.370	44.950	44.090	43.105	41.555	39.755	37.450	35.205	32.715
15	70.035	69.700	68.820	67.460	65.195	62.405	59.390	55.575	51.930	47.990
20	95.435	95.140	93.885	91.870	88.395	84.580	80.155	75.230	69.930	64.170
25	122.550	121.920	120.160	117.440	112.725	107.590	101.910	95.265	88.140	80.660
30	148.955	148.180	146.230	142.775	137.390	131.080	123.870	115.405	106.415	96.985
35	174.605	173.810	171.210	166.645	160.165	153.145	144.365	134.390	123.580	112.345
40	198.370	197.260	194.095	189.255	182.150	173.015	163.395	152.330	139.820	126.825
45	219.410	218.385	214.945	209.080	201.180	191.310	180.265	167.835	154.425	139.905
50	237.015	235.880	231.960	225.740	217.460	206.920	194.910	180.975	165.680	150.800
55	249.965	248.915	245.185	239.025	229.910	219.115	206.415	191.750	174.750	159.600
60	258.975	257.760	253.860	247.345	238.565	227.145	214.130	199.270	183.220	165.240
65	263.335	262.055	258.365	252.455	243.510	232.400	219.010	203.860	187.135	168.570
70	263.040	261.785	258.285	252.540	243.510	233.095	220.460	205.640	189.085	169.725
75	259.770	258.640	255.330	249.630	241.540	231.440	218.885	204.970	189.340	170.060
80	254.405	253.360	250.300	245.100	237.390	227.685	216.225	202.500	186.905	169.345
85	247.660	246.695	243.805	238.880	231.755	222.575	211.720	198.620	183.720	168.110
90	240.490	239.570	236.700	232.025	225.255	216.855	206.185	193.990	179.700	164.985
95	233.325	232.340	229.615	225.110	218.885	210.460	200.380	188.560	173.725	160.795
100	226.160	225.235	222.660	218.340	212.140	204.030	194.450	182.860	169.285	155.810
105	218.695	217.860	215.260	211.025	204.825	197.070	187.870	176.785	164.335	150.360
110	210.820	210.020	207.445	203.210	197.470	189.590	180.555	169.220	158.280	144.890
115	201.975	201.240	198.770	194.620	188.900	181.375	172.655	162.745	150.695	137.765
120	191.830	191.075	188.710	184.705	179.030	172.280	164.235	154.130	142.605	130.305
125	180.265	179.550	177.205	173.455	168.465	161.885	153.920	144.450	133.930	122.385
130	167.775	167.085	164.965	161.740	156.730	150.425	142.920	134.015	123.725	111.635
135	153.650	152.980	151.070	147.845	143.255	137.515	130.600	121.210	109.350	97.800
140	137.765	137.200	135.500	132.675	128.355	123.245	114.840	104.215	94.050	84.220
145	120.540	120.055	118.715	116.140	112.365	105.160	96.335	87.955	79.530	71.565
150	102.475	101.970	100.945	98.745	92.920	85.500	78.670	72.090	66.240	61.065
155	83.990	83.680	82.795	79.635	72.300	66.995	62.050	58.595	54.675	50.085
160	64.795	64.525	63.855	57.545	52.770	49.350	47.485	45.120	41.785	37.135
165	44.805	44.450	40.695	37.260	34.785	34.600	33.340	31.205	27.830	25.190
170	25.900	23.805	20.745	19.550	20.245	20.685	20.120	19.260	18.400	17.185
175	11.820	9.265	9.535	10.645	11.255	11.360	11.210	11.000	10.585	10.080
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	11.645	11.645	11.645	11.645	11.645	11.645	11.645	11.645	11.645
5	17.165	16.305	15.530	14.710	14.060	13.410	12.930	12.575	12.195
10	29.945	26.990	24.080	21.040	18.380	15.990	13.955	12.740	11.985
15	43.335	38.770	34.075	29.130	24.310	19.470	15.380	12.805	11.780
20	57.925	51.300	44.660	37.870	31.185	24.395	17.665	13.035	11.315
25	72.255	63.665	55.095	46.355	37.680	29.215	20.665	13.455	10.855
30	86.695	76.050	65.405	54.735	44.300	33.700	23.555	14.185	10.270
35	100.025	87.345	74.875	62.280	50.065	37.765	26.030	14.965	9.640
40	112.765	98.285	83.950	69.135	55.240	41.325	28.145	15.530	8.590
45	123.915	108.030	91.935	75.505	60.040	46.165	30.115	16.495	8.175
50	133.320	115.950	98.495	81.395	64.375	48.365	33.360	17.350	7.375
55	141.705	123.285	104.635	85.310	67.500	49.685	34.580	17.605	6.495
60	147.490	128.040	108.655	88.685	69.995	51.405	34.995	17.625	5.700

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CANDELA TABULATION - (Cont.)

65	151.070	131.225	111.320	91.305	71.795	53.125	35.645	18.210	4.820
70	153.690	133.195	113.435	92.835	72.925	53.290	36.025	18.255	3.980
75	153.565	133.995	113.960	93.005	73.305	53.520	36.755	17.560	3.395
80	152.495	133.385	113.290	92.775	73.135	53.940	37.805	17.815	2.725
85	150.525	131.480	112.050	92.500	72.720	53.060	37.615	17.415	2.265
90	147.615	129.300	110.315	90.260	71.145	51.865	36.925	16.450	2.345
95	143.715	126.260	107.820	88.265	69.635	51.030	36.315	16.260	2.390
100	139.255	122.385	104.510	86.090	68.005	49.915	34.705	15.485	1.885
105	135.190	118.380	101.220	83.260	65.445	47.715	32.735	14.565	1.720
110	129.510	113.710	97.175	79.655	62.870	45.725	29.655	12.760	2.140
115	123.325	108.450	92.415	76.260	59.915	43.880	28.520	11.630	2.180
120	116.790	102.225	87.280	71.985	56.600	40.780	25.145	9.640	2.305
125	109.285	95.285	80.515	65.110	50.590	36.235	20.870	7.945	2.600
130	97.950	84.705	71.355	57.670	44.720	32.375	17.875	6.935	2.685
135	85.690	74.145	62.615	50.670	38.935	26.510	14.630	6.225	2.890
140	74.270	64.065	54.170	43.315	32.650	21.900	12.010	5.680	3.020
145	64.065	56.245	45.875	35.940	26.825	17.185	10.165	5.220	3.185
150	54.780	46.125	37.575	29.525	21.355	14.565	9.180	5.175	3.645
155	43.065	36.130	30.240	23.385	17.685	12.825	8.300	5.260	4.275
160	32.440	27.370	22.635	18.590	14.755	10.960	7.650	5.325	4.735
165	22.400	19.785	17.375	14.565	11.675	8.845	6.790	5.325	5.155
170	15.780	14.270	12.555	10.710	8.905	7.440	6.265	5.680	5.660
175	9.430	8.825	8.110	7.400	6.810	6.370	6.055	6.075	6.075
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	15.21	N.A.	1.00
0-30	50.28	N.A.	3.30
0-40	116.18	N.A.	7.70
0-60	349.30	N.A.	23.30
0-80	670.36	N.A.	44.70
0-90	836.12	N.A.	55.70
10-90	834.01	N.A.	55.60
20-40	100.98	N.A.	6.70
20-50	201.60	N.A.	13.40
40-70	388.33	N.A.	25.90
60-80	321.06	N.A.	21.40
70-80	165.84	N.A.	11.00
80-90	165.76	N.A.	11.00
90-110	300.29	N.A.	20.00
90-120	423.38	N.A.	28.20
90-130	521.58	N.A.	34.80
90-150	634.89	N.A.	42.30
90-180	664.79	N.A.	44.30
110-180	364.50	N.A.	24.30
0-180	1500.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2.10
10-20	13.11
20-30	35.07
30-40	65.91
40-50	100.63
50-60	132.49
60-70	155.22
70-80	165.84
80-90	165.76
90-100	157.36
100-110	142.93
110-120	123.08
120-130	98.20
130-140	70.13
140-150	43.19
150-160	21.63
160-170	7.29
170-180	0.98

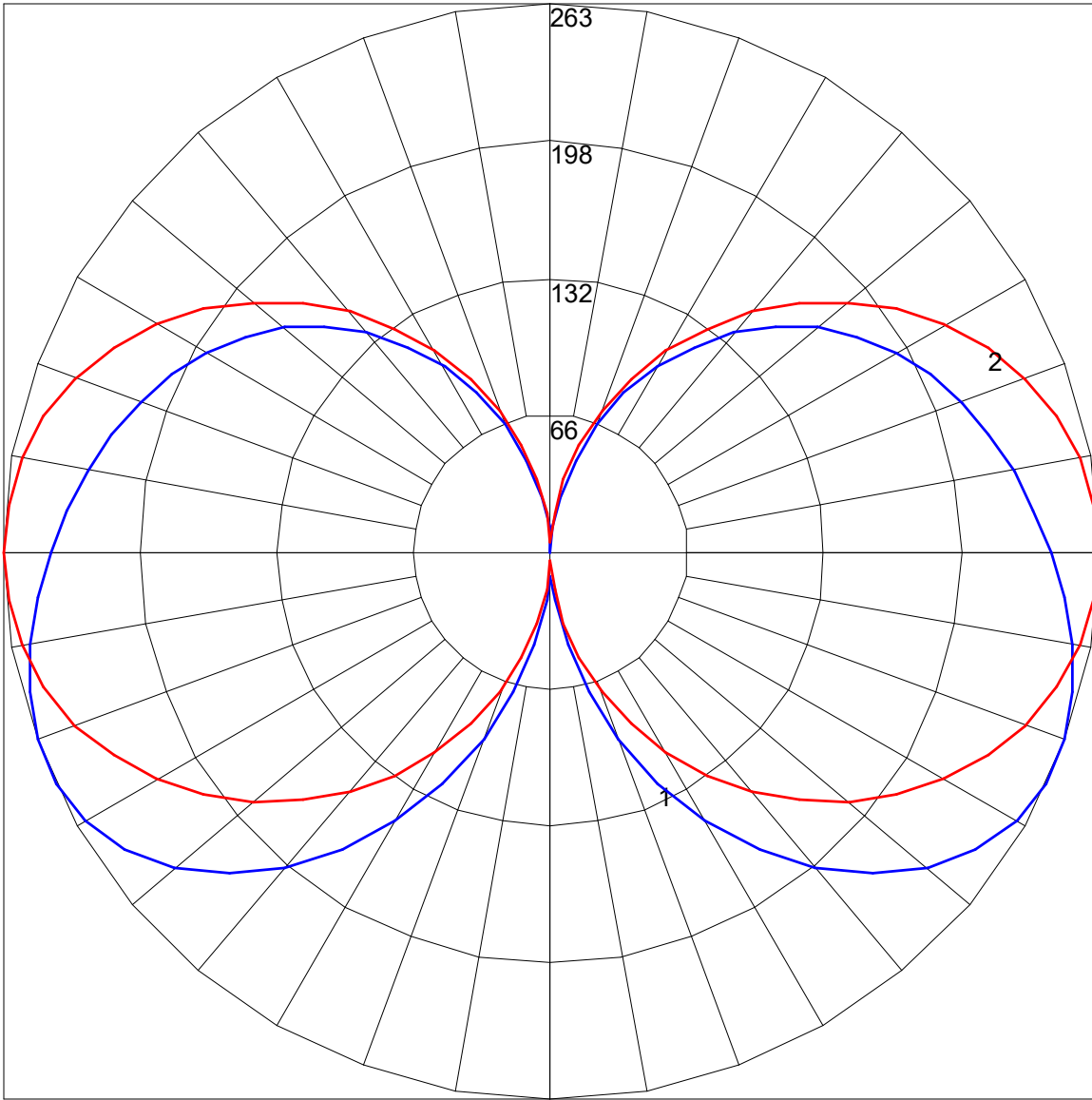
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	76	66	59	52	56	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	36	61	49	40	33	41	33	28	33	27	23	26	21	18	14
5	61	46	37	29	55	43	34	27	35	28	23	29	23	18	23	18	14	11
6	55	41	31	25	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	17	25	19	14	21	15	11	16	12	8	6
9	44	30	21	16	40	27	20	14	23	16	12	19	13	10	15	10	7	5
10	41	27	19	14	37	25	18	13	21	15	10	17	12	8	14	9	6	4

POLAR GRAPH



Maximum Candela = 263.335 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.)