

IES Report

ZipTwo® | 707 | Square, Side Diffuse | 80 CRI | SO

707-Z2-4-48-XX-XX-X-0-Z-SO-35-S9-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	99	102	104	106
Total Lumens, 4' rail length (1219mm)	2563	2644	2698	2752
Lumens per foot (305mm)	641	661	675	688
Input Power (W), 4' rail length (1219mm)	26.1	26.1	26.1	26.1
Watts per foot (305mm)	6.6	6.6	6.6	6.6
CRI	85	85	85	85

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_SO_35_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-SO-35-S9-AL
 [LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board,
 [MORE] square profile side diffuse lens, standard output
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2698
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	26.16
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	6792	4660	90
55	8005	5729	102
65	8527	6616	136
75	8593	7311	174
85	8809	8178	391

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	28.687	28.640	28.350	27.805	27.028	26.007	24.894	23.583	21.970	20.323
10	63.986	63.742	63.011	61.642	59.798	57.374	54.601	51.249	47.595	43.709
15	105.595	105.061	103.553	101.326	97.869	93.542	88.578	82.696	76.328	69.577
20	153.143	152.320	150.081	146.392	141.184	134.525	126.892	117.995	108.414	98.066
25	205.656	204.531	201.330	196.075	188.836	179.348	168.710	156.403	142.982	128.737
30	261.951	260.548	256.116	249.075	239.401	226.896	212.802	196.806	179.255	161.078
35	320.102	318.304	312.562	303.526	291.462	275.767	258.065	238.078	216.154	193.546
40	377.081	374.703	367.940	357.152	342.177	323.744	302.308	278.238	252.230	225.249
45	428.713	426.138	418.261	405.965	388.948	367.848	343.151	315.532	285.580	254.179
50	470.334	467.318	459.105	445.823	427.495	404.596	378.009	347.281	314.221	279.456
55	497.652	494.937	486.516	473.152	454.430	430.801	402.845	371.641	336.238	299.245
60	509.124	506.700	498.719	485.936	468.002	444.616	417.484	385.735	350.482	313.397
65	505.818	503.440	496.341	484.868	468.141	446.461	420.744	390.398	356.178	319.708
70	491.040	489.149	482.920	472.619	457.446	438.584	414.862	386.616	354.519	319.615
75	469.742	467.898	462.457	453.560	440.382	423.272	402.068	376.594	347.037	314.024
80	446.797	445.196	440.382	432.552	420.790	405.571	386.756	363.370	336.435	305.950
85	425.987	424.583	420.106	412.914	402.265	388.414	371.293	350.239	324.522	296.670
90	409.457	408.100	404.063	397.114	386.999	374.065	357.976	337.804	314.116	287.726
95	397.497	396.094	392.103	385.445	375.620	362.883	347.374	327.978	305.173	279.850
100	389.041	387.776	383.693	377.035	367.163	354.519	339.010	319.812	297.401	272.751
105	382.046	380.828	376.745	369.785	360.064	347.084	331.528	312.272	290.058	265.605
110	374.750	373.288	369.112	362.059	352.095	338.871	323.164	303.908	281.741	257.624
115	365.029	363.474	358.950	351.990	341.887	328.512	312.759	293.608	271.684	248.147
120	351.410	349.902	345.529	338.384	328.268	314.998	299.384	280.627	259.283	236.478
125	333.616	332.212	327.781	320.786	310.868	297.981	282.912	264.770	244.795	222.674
130	311.356	309.987	305.706	299.094	289.571	277.368	262.833	246.059	226.316	201.956
135	285.198	283.933	280.036	273.725	264.967	253.402	240.120	220.678	198.754	177.503
140	255.931	254.759	251.256	245.421	237.498	227.000	208.812	189.753	171.529	153.735
145	224.425	223.300	220.145	215.180	207.895	191.655	175.554	160.289	145.418	131.370
150	191.261	190.391	187.711	183.292	170.114	156.403	144.153	132.043	122.078	112.450
155	157.041	156.264	153.920	145.081	132.437	122.566	113.866	108.518	101.326	92.185
160	121.742	121.104	117.415	105.502	97.428	91.211	88.392	83.334	75.945	66.410
165	83.427	82.557	73.022	67.002	63.104	62.431	60.239	56.063	51.005	46.771
170	47.258	42.352	38.071	36.946	39.092	39.718	38.408	37.050	35.252	33.014
175	23.432	18.908	19.302	21.251	22.411	22.458	22.075	21.390	20.520	19.349
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	18.479	16.484	14.442	12.354	10.115	7.923	5.835	4.280	3.793
10	39.382	34.962	30.241	25.520	20.613	15.660	10.695	5.986	3.700
15	62.234	54.740	47.015	39.231	31.506	23.676	15.799	8.410	3.596
20	86.884	75.945	64.716	53.476	42.444	31.656	20.903	10.892	3.596
25	113.668	98.496	83.334	67.964	53.673	39.626	25.961	13.317	3.399
30	141.334	122.078	102.347	82.940	64.902	47.502	30.926	15.660	3.399
35	169.488	145.510	121.394	97.869	75.992	55.228	35.635	17.887	3.399
40	196.516	168.270	140.163	112.207	86.687	62.524	40.008	19.743	2.923
45	221.746	189.324	157.331	125.489	96.605	69.333	43.558	21.541	2.923
50	243.623	207.698	172.399	137.251	105.305	74.971	47.166	23.235	2.726
55	261.081	222.674	184.649	146.879	112.694	79.982	50.611	24.557	2.726
60	273.424	233.566	193.940	154.361	118.482	83.961	53.047	25.624	2.726

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CANDELA TABULATION - (Cont.)

65	279.850	239.876	199.729	159.222	122.276	86.838	54.891	26.935	2.726
70	281.161	241.384	202.200	161.901	124.607	88.531	56.005	27.469	2.332
75	278.238	239.934	202.014	162.922	125.384	89.355	56.689	27.805	2.239
80	271.869	236.141	199.775	161.797	125.048	89.413	56.840	27.863	2.134
85	264.770	231.084	196.179	159.616	124.271	88.821	56.689	27.910	2.042
90	257.671	225.446	192.096	156.646	121.835	87.615	56.492	27.620	1.949
95	250.920	219.901	187.131	153.491	119.596	86.733	55.761	27.805	2.239
100	244.992	214.403	182.607	149.350	116.974	85.086	54.845	27.469	2.332
105	238.322	208.568	177.062	145.371	114.005	83.044	53.720	25.822	2.436
110	230.504	201.910	171.866	141.091	110.455	80.608	52.270	22.318	2.622
115	221.606	193.940	165.010	135.546	106.569	77.592	49.010	20.277	2.819
120	211.004	184.510	156.936	128.888	100.734	72.732	43.755	17.354	3.109
125	197.780	171.228	143.759	117.067	90.863	65.146	36.273	14.732	3.306
130	176.772	152.412	128.308	104.238	80.318	56.248	30.636	13.131	3.700
135	155.533	134.722	113.286	90.967	70.540	46.238	26.982	11.762	3.990
140	135.302	117.705	98.159	79.054	58.394	39.579	24.024	10.788	4.083
145	117.659	102.927	83.671	64.763	47.792	33.454	20.660	9.918	4.280
150	101.024	84.645	68.359	53.186	40.403	29.905	18.966	9.964	4.965
155	78.416	65.633	54.601	43.268	34.614	26.065	17.064	10.162	5.638
160	58.244	50.077	42.352	35.740	29.510	22.759	15.706	10.069	6.322
165	42.398	38.118	33.837	28.977	24.116	18.815	14.106	9.582	6.902
170	30.438	27.666	24.604	21.390	17.992	14.778	11.519	8.607	7.296
175	18.038	16.623	15.022	13.468	11.867	10.312	8.746	7.784	7.389
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	21.30	N.A.	0.80
0-30	77.87	N.A.	2.90
0-40	193.12	N.A.	7.20
0-60	631.58	N.A.	23.40
0-80	1222.39	N.A.	45.30
0-90	1510.87	N.A.	56.00
10-90	1508.55	N.A.	55.90
20-40	171.81	N.A.	6.40
20-50	358.38	N.A.	13.30
40-70	729.77	N.A.	27.10
60-80	590.81	N.A.	21.90
70-80	299.51	N.A.	11.10
80-90	288.48	N.A.	10.70
90-110	522.47	N.A.	19.40
90-120	743.92	N.A.	27.60
90-130	923.36	N.A.	34.20
90-150	1131.48	N.A.	41.90
90-180	1186.87	N.A.	44.00
110-180	664.40	N.A.	24.60
0-180	2697.74	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2.32
10-20	18.99
20-30	56.57
30-40	115.24
40-50	186.56
50-60	251.90
60-70	291.30
70-80	299.51
80-90	288.48
90-100	271.52
100-110	250.94
110-120	221.45
120-130	179.44
130-140	128.61
140-150	79.51
150-160	39.99
160-170	13.54
170-180	1.85

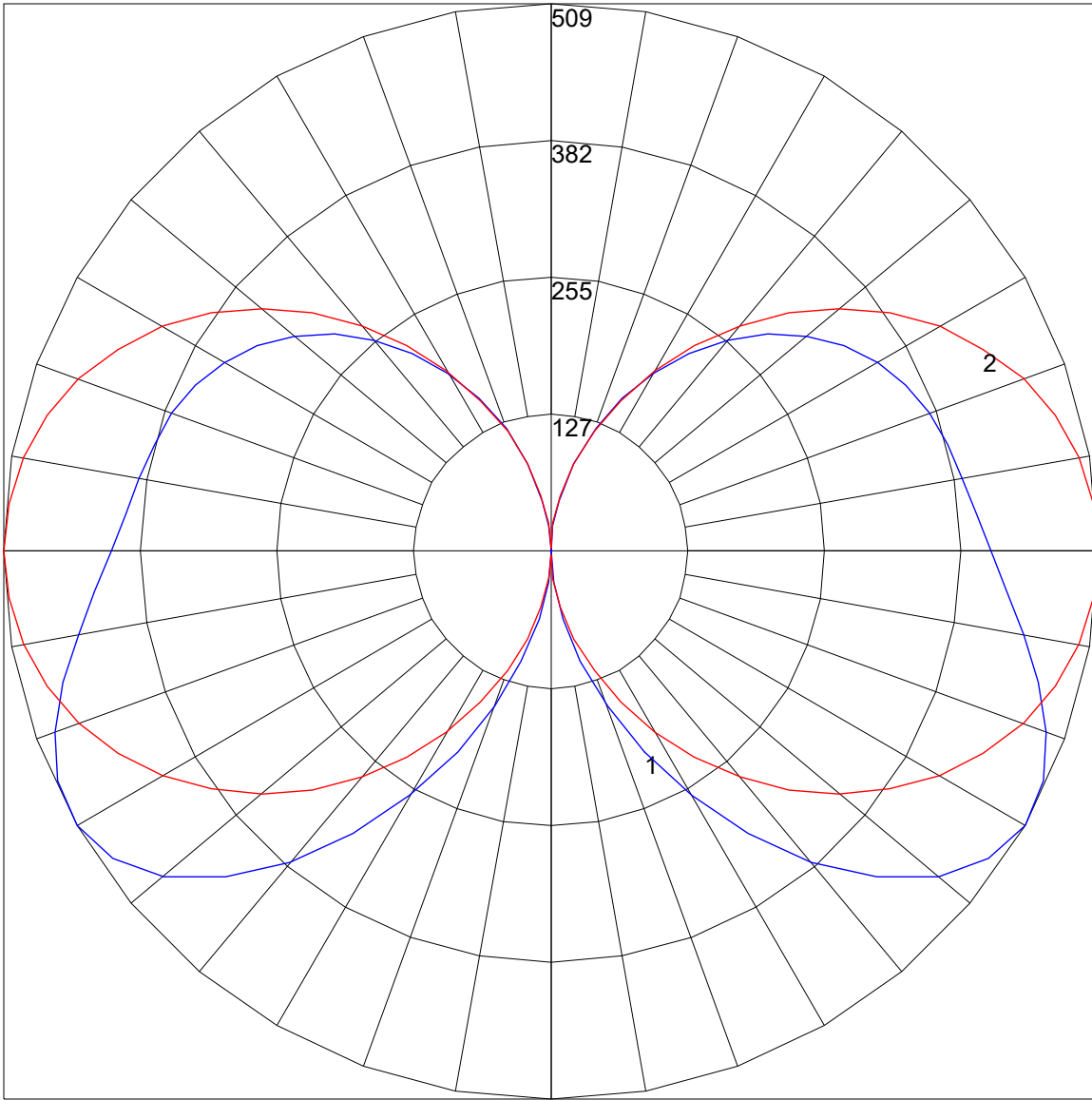
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	74	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	33	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 = 509.124 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.)