

IES Report

ZipTwo® | 707 | Square 3554, Side Diffuse | 80 CRI | SO

707-Z2-4-48-XX-XX-X-0-Z-SO-35-J9-X-BL-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	127	131	134	134
Total Lumens, 4' rail length (1219mm)	3308	3412	3482	3482
Lumens per foot (305mm)	827	853	871	871
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	82	82	82	82

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_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-SO-35-J9-BL

[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board,

[MORE] square 3554, side diffuse black lens, standard output

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3482
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	26.14
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	6467	4868	533
55	7310	5662	513
65	7878	6295	503
75	8210	6926	544
85	8571	7787	841

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_SO_35_J9_BL.IES

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	27.016	27.016	27.016	27.016	27.016	27.016	27.016	27.016	27.016	27.016
5	53.186	53.186	52.699	53.047	51.539	50.124	48.233	45.948	44.045	41.911
10	105.792	105.258	104.284	102.289	100.004	96.408	92.232	86.884	81.676	75.899
15	162.481	161.704	159.662	156.507	151.252	144.780	137.785	128.934	120.478	111.337
20	221.409	220.725	217.813	213.138	205.076	196.226	185.960	174.534	162.238	148.874
25	284.316	282.854	278.771	272.461	261.522	249.609	236.431	221.015	204.485	187.131
30	345.576	343.778	339.254	331.238	318.745	304.106	287.378	267.740	246.883	225.005
35	405.084	403.239	397.207	386.616	371.583	355.296	334.927	311.785	286.706	260.640
40	460.218	457.643	450.300	439.072	422.588	401.395	379.076	353.406	324.382	294.234
45	509.031	506.653	498.672	485.066	466.738	443.839	418.215	389.377	358.266	324.580
50	549.875	547.242	538.147	523.717	504.507	480.054	452.191	419.862	384.378	349.856
55	579.919	577.483	568.829	554.538	533.391	508.347	478.883	444.860	405.420	370.272
60	600.822	598.003	588.955	573.840	553.471	526.976	496.782	462.306	425.070	383.357
65	610.937	607.968	599.407	585.696	564.943	539.168	508.103	472.955	434.153	391.082
70	610.253	607.341	599.221	585.893	564.943	540.780	511.467	477.085	438.677	393.762
75	602.666	600.045	592.366	579.142	560.373	536.941	507.813	475.530	439.269	394.539
80	590.220	587.795	580.696	568.632	550.745	528.229	501.642	469.800	433.620	392.880
85	574.571	572.332	565.628	554.202	537.672	516.374	491.190	460.798	426.230	390.015
90	557.937	555.802	549.144	538.298	522.592	503.104	478.349	450.057	416.904	382.765
95	541.314	539.029	532.707	522.255	507.813	488.267	464.882	437.459	403.042	373.044
100	524.691	522.545	516.571	506.549	492.165	473.350	451.124	424.235	392.741	361.479
105	507.372	505.435	499.403	489.578	475.194	457.202	435.858	410.141	381.257	348.835
110	489.102	487.246	481.272	471.447	458.130	439.849	418.888	392.590	367.210	336.145
115	468.582	466.877	461.146	451.518	438.248	420.790	400.560	377.568	349.612	319.615
120	445.046	443.294	437.807	428.516	415.350	399.690	381.025	357.582	330.844	302.308
125	418.215	416.556	411.116	402.416	390.839	375.573	357.094	335.124	310.718	283.933
130	389.238	387.637	382.719	375.237	363.614	348.986	331.574	310.915	287.042	258.993
135	356.468	354.914	350.482	343.000	332.352	319.035	302.992	281.207	253.692	226.896
140	319.615	318.304	314.360	307.806	297.784	285.928	266.429	241.779	218.196	195.390
145	279.653	278.528	275.419	269.445	260.687	243.971	223.497	204.056	184.510	166.031
150	237.742	236.570	234.192	229.088	215.574	198.360	182.514	167.249	153.677	141.671
155	194.857	194.138	192.084	184.753	167.736	155.428	143.956	135.940	126.846	116.197
160	150.324	149.698	148.144	133.504	122.426	114.492	110.165	104.678	96.941	86.153
165	103.948	103.124	94.412	86.443	80.701	80.272	77.349	72.396	64.566	58.441
170	60.088	55.228	48.128	45.356	46.968	47.989	46.678	44.683	42.688	39.869
175	27.422	21.495	22.121	24.696	26.112	26.355	26.007	25.520	24.557	23.386
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	27.016	27.016	27.016	27.016	27.016	27.016	27.016	27.016	27.016
5	39.823	37.828	36.030	34.127	32.619	31.111	29.998	29.174	28.292
10	69.472	62.617	55.866	48.813	42.642	37.097	32.376	29.557	27.805
15	100.537	89.946	79.054	67.582	56.399	45.170	35.682	29.708	27.330
20	134.386	119.016	103.611	87.858	72.349	56.596	40.983	30.241	26.251
25	167.632	147.703	127.820	107.544	87.418	67.779	47.943	31.216	25.184
30	201.132	176.436	151.740	126.985	102.776	78.184	54.648	32.909	23.826
35	232.058	202.640	173.710	144.490	116.151	87.615	60.390	34.719	22.365
40	261.615	228.021	194.764	160.393	128.157	95.874	65.296	36.030	19.929
45	287.483	250.630	213.289	175.172	139.293	107.103	69.867	38.268	18.966
50	309.302	269.004	228.508	188.836	149.350	112.207	77.395	40.252	17.110
55	328.756	286.021	242.753	197.919	156.600	115.269	80.226	40.844	15.068
60	342.177	297.053	252.080	205.749	162.388	119.260	81.188	40.890	13.224

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PHOTOMETRIC FILENAME : VODE_707_Z2_SO_35_J9_BL.IES

CANDELA TABULATION - (Cont.)

65	350.482	304.442	258.262	211.828	166.564	123.250	82.696	42.247	11.182
70	356.561	309.012	263.169	215.377	169.186	123.633	83.578	42.352	9.234
75	356.271	310.868	264.387	215.772	170.068	124.166	85.272	40.739	7.876
80	353.788	309.453	262.833	215.238	169.673	125.141	87.708	41.331	6.322
85	349.218	305.034	259.956	214.600	168.710	123.099	87.267	40.403	5.255
90	342.467	299.976	255.931	209.403	165.056	120.327	85.666	38.164	5.440
95	333.419	292.923	250.142	204.775	161.553	118.390	84.251	37.723	5.545
100	323.072	283.933	242.463	199.729	157.772	115.803	80.516	35.925	4.373
105	313.641	274.642	234.830	193.163	151.832	110.699	75.945	33.791	3.990
110	300.463	263.807	225.446	184.800	145.858	106.082	68.800	29.603	4.965
115	286.114	251.604	214.403	176.923	139.003	101.802	66.166	26.982	5.058
120	270.953	237.162	202.490	167.005	131.312	94.610	58.336	22.365	5.348
125	253.541	221.061	186.795	151.055	117.369	84.065	48.418	18.432	6.032
130	227.244	196.516	165.544	133.794	103.750	75.110	41.470	16.089	6.229
135	198.801	172.016	145.267	117.554	90.329	61.503	33.942	14.442	6.705
140	172.306	148.631	125.674	100.491	75.748	50.808	27.863	13.178	7.006
145	148.631	130.488	106.430	83.381	62.234	39.869	23.583	12.110	7.389
150	127.090	107.010	87.174	68.498	49.544	33.791	21.298	12.006	8.456
155	99.911	83.822	70.157	54.253	41.029	29.754	19.256	12.203	9.918
160	75.261	63.498	52.513	43.129	34.232	25.427	17.748	12.354	10.985
165	51.968	45.901	40.310	33.791	27.086	20.520	15.753	12.354	11.960
170	36.610	33.106	29.128	24.847	20.660	17.261	14.535	13.178	13.131
175	21.878	20.474	18.815	17.168	15.799	14.778	14.048	14.094	14.094
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	35.29	N.A.	1.00
0-30	116.64	N.A.	3.30
0-40	269.55	N.A.	7.70
0-60	810.38	N.A.	23.30
0-80	1555.23	N.A.	44.70
0-90	1939.79	N.A.	55.70
10-90	1934.91	N.A.	55.60
20-40	234.26	N.A.	6.70
20-50	467.72	N.A.	13.40
40-70	900.93	N.A.	25.90
60-80	744.86	N.A.	21.40
70-80	384.75	N.A.	11.00
80-90	384.56	N.A.	11.00
90-110	696.68	N.A.	20.00
90-120	982.23	N.A.	28.20
90-130	1210.06	N.A.	34.80
90-150	1472.95	N.A.	42.30
90-180	1542.32	N.A.	44.30
110-180	845.64	N.A.	24.30
0-180	3482.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	4.88
10-20	30.40
20-30	81.36
30-40	152.91
40-50	233.45
50-60	307.37
60-70	360.11
70-80	384.75
80-90	384.56
90-100	365.08
100-110	331.60
110-120	285.55
120-130	227.83
130-140	162.70
140-150	100.19
150-160	50.18
160-170	16.91
170-180	2.28

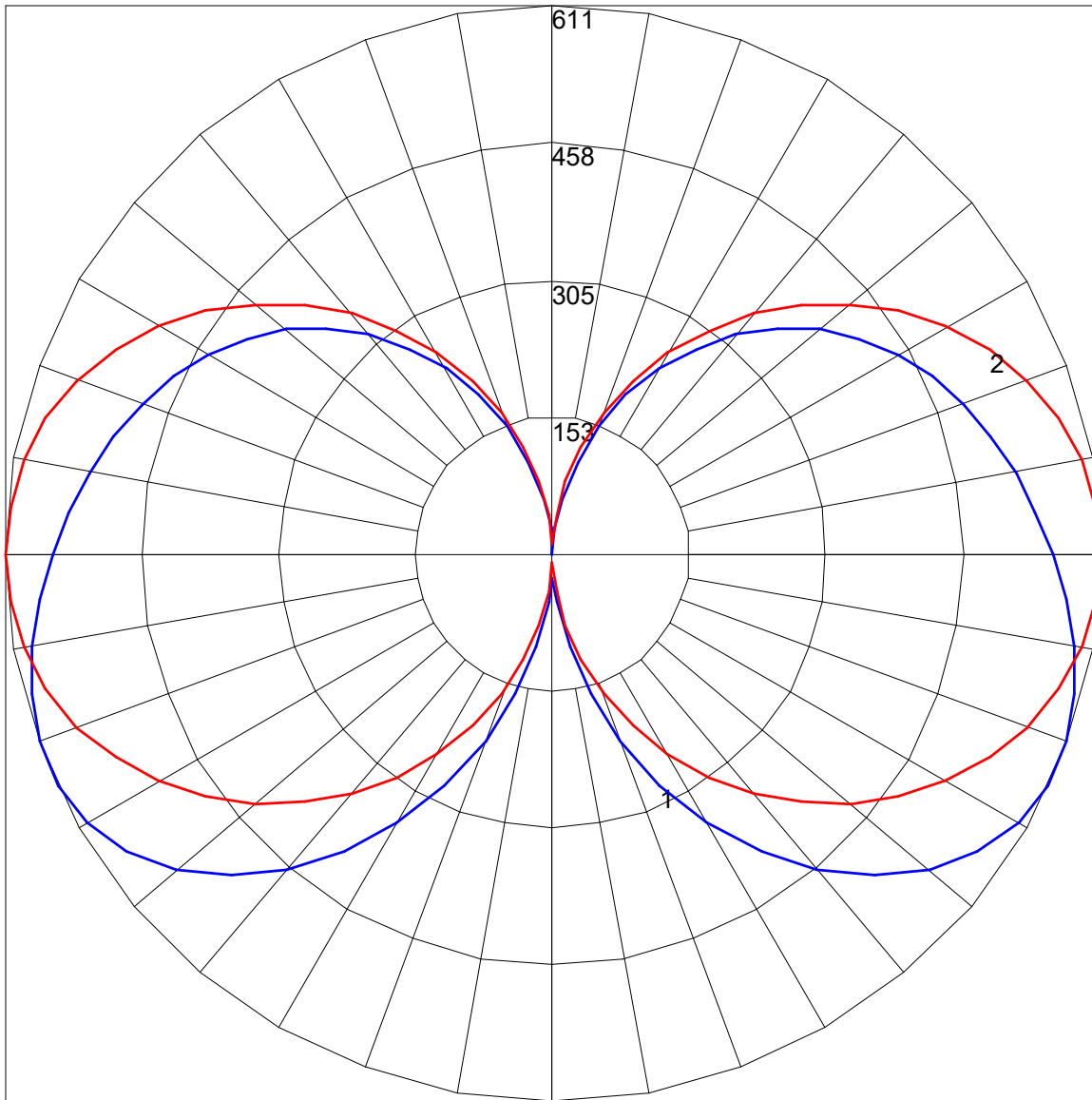
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	46	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 = 610.937 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.)