

## IES Report

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

707-Z2-4-48-XX-XX-X-0-Z-SO-35-S6-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	145	150	153	153
Total Lumens, 4' rail length (1219mm)	3771	3891	3970	3970
Lumens per foot (305mm)	943	973	992	992
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\_S6.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911533 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z2-48-Z-SO-35-S6-AL

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

[MORE] standard output, clear anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3970
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
Total Luminaire Watts	26.11
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.70
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.64
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.11 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.09 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13749	12873	13519
55	13696	12464	12733
65	13179	11950	11936
75	12173	11308	11275
85	11050	10636	11452

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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>
<b>0</b>	650.876	650.876	650.876	650.876	650.876	650.876	650.876	650.876	650.876	650.876
<b>5</b>	666.942	666.896	666.896	666.606	665.724	665.190	664.320	663.346	662.035	660.620
<b>10</b>	683.959	683.866	683.275	682.300	680.990	679.145	677.011	674.482	672.000	669.134
<b>15</b>	696.116	695.826	694.852	693.344	691.012	688.089	684.690	680.653	675.839	670.874
<b>20</b>	705.547	704.909	703.308	700.826	697.520	692.949	687.509	681.523	674.726	667.626
<b>25</b>	712.542	711.672	709.526	706.034	700.826	694.608	687.358	678.612	669.227	659.402
<b>30</b>	717.994	717.460	714.154	709.386	702.380	694.074	684.296	672.974	660.481	647.640
<b>35</b>	722.460	721.346	717.750	711.382	702.334	691.546	679.052	664.506	648.614	632.328
<b>40</b>	724.988	723.480	718.724	710.894	700.153	686.581	671.118	653.428	634.218	614.533
<b>45</b>	723.237	721.346	715.755	706.614	693.924	678.124	659.843	639.183	616.482	593.816
<b>50</b>	714.885	712.739	706.417	696.406	682.057	664.216	643.893	620.264	595.138	569.363
<b>55</b>	696.986	694.701	688.286	677.544	662.418	643.359	621.586	596.252	569.026	540.827
<b>60</b>	668.114	665.875	659.402	648.660	633.592	614.197	591.925	565.860	537.184	507.767
<b>65</b>	627.757	625.855	619.730	609.325	595.231	576.566	554.538	528.624	500.227	470.044
<b>70</b>	578.167	576.508	570.917	561.684	548.309	530.665	509.762	485.495	458.177	428.574
<b>75</b>	522.545	520.944	516.177	507.813	495.958	480.147	460.903	438.294	412.716	385.398
<b>80</b>	464.394	463.084	459.000	451.716	441.206	427.008	409.851	388.217	366.479	340.669
<b>85</b>	407.902	406.638	402.949	396.581	387.869	376.014	360.644	341.887	319.522	295.649
<b>90</b>	358.022	356.851	353.313	347.524	338.871	327.340	313.293	295.846	276.057	252.961
<b>95</b>	335.658	334.637	331.377	326.030	318.200	307.261	294.338	278.388	259.770	239.099
<b>100</b>	320.682	319.858	316.842	311.692	304.198	294.095	281.834	266.719	248.924	229.332
<b>105</b>	307.458	306.634	303.665	298.804	291.520	281.834	270.071	255.583	238.670	220.040
<b>110</b>	294.524	293.654	290.974	286.021	278.771	269.538	258.216	244.447	227.975	210.273
<b>115</b>	281.114	280.186	277.507	272.797	265.698	256.801	245.816	232.394	217.036	199.961
<b>120</b>	266.719	265.895	263.123	258.448	251.743	242.892	232.302	219.797	205.018	188.929
<b>125</b>	250.676	249.945	247.219	242.707	236.327	227.870	217.755	205.946	191.852	176.772
<b>130</b>	233.079	232.244	229.622	225.342	219.263	211.387	201.956	190.530	177.793	162.528
<b>135</b>	213.626	212.848	210.366	206.480	200.750	193.453	184.753	173.814	159.024	143.132
<b>140</b>	192.722	191.945	189.706	186.110	180.856	174.197	164.569	150.719	137.634	124.271
<b>145</b>	170.358	169.731	167.632	164.326	159.860	151.160	139.386	128.157	117.415	106.523
<b>150</b>	147.123	146.531	144.733	141.961	135.059	124.804	115.664	106.859	98.983	92.034
<b>155</b>	123.099	122.566	121.104	117.021	107.590	100.201	93.450	88.682	83.868	77.940
<b>160</b>	98.797	98.449	96.895	88.485	82.406	77.453	74.924	71.665	66.654	58.974
<b>165</b>	72.639	72.291	65.830	60.575	56.782	55.576	53.778	50.564	45.600	41.911
<b>170</b>	45.600	41.864	36.853	34.661	35.496	35.542	34.614	33.211	31.552	29.510
<b>175</b>	18.479	17.597	17.644	19.059	19.743	19.639	19.256	18.479	17.597	16.623
<b>180</b>	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>
<b>0</b>	650.876	650.876	650.876	650.876	650.876	650.876	650.876	650.876	650.876
<b>5</b>	659.263	657.558	656.096	654.159	652.454	650.656	649.055	647.489	646.909
<b>10</b>	665.678	662.325	658.729	654.739	650.702	646.816	642.686	638.696	636.608
<b>15</b>	665.527	659.936	654.344	648.278	642.141	635.831	629.358	623.036	618.524
<b>20</b>	659.750	651.769	643.220	634.752	626.249	617.596	609.139	600.532	594.210
<b>25</b>	648.904	637.722	626.690	615.310	604.325	593.572	582.784	572.182	563.284
<b>30</b>	633.928	619.544	605.532	591.530	577.877	564.212	551.081	538.391	527.208
<b>35</b>	615.218	597.806	580.499	563.772	546.905	530.712	515.156	500.470	487.351
<b>40</b>	593.920	573.202	552.253	532.324	512.778	494.148	476.261	459.534	444.558
<b>45</b>	569.467	545.490	521.675	498.580	476.168	454.964	435.081	416.510	399.933
<b>50</b>	541.697	515.110	488.372	462.504	438.341	414.422	392.788	372.360	354.426
<b>55</b>	510.736	481.760	452.736	424.583	398.274	372.998	349.462	327.642	308.432
<b>60</b>	476.018	445.533	414.909	385.538	357.640	330.600	305.173	282.564	261.951

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	438.004	406.684	375.527	344.752	315.381	288.109	261.464	237.835	216.352
<b>70</b>	397.358	365.992	334.347	302.795	273.424	245.224	218.242	194.428	172.109
<b>75</b>	354.624	323.791	292.633	261.371	232.000	203.568	176.726	152.227	129.421
<b>80</b>	311.936	282.425	252.080	222.036	193.117	164.813	137.634	112.740	92.765
<b>85</b>	269.584	241.048	212.071	182.166	153.828	125.489	99.273	74.333	51.342
<b>90</b>	228.068	201.422	173.664	144.443	116.684	89.123	61.840	37.004	14.001
<b>95</b>	215.574	190.588	164.326	136.613	109.875	83.334	57.316	32.677	10.115
<b>100</b>	207.118	183.872	158.398	132.576	106.523	81.188	55.761	32.132	9.338
<b>105</b>	198.940	176.436	152.412	128.064	102.532	77.592	53.430	30.241	8.271
<b>110</b>	190.727	168.560	145.951	121.986	98.356	73.660	50.611	26.842	7.192
<b>115</b>	180.856	160.440	138.759	115.420	92.904	69.623	47.305	23.432	6.032
<b>120</b>	170.694	151.345	130.732	108.762	87.371	65.389	43.616	19.592	5.058
<b>125</b>	159.570	141.334	121.498	100.201	79.924	59.415	37.097	16.484	4.373
<b>130</b>	144.884	126.695	108.228	89.355	71.468	53.140	31.552	14.094	4.280
<b>135</b>	127.426	111.627	95.677	79.147	63.394	45.600	27.469	12.296	0.000
<b>140</b>	110.942	97.382	83.868	69.519	54.798	38.361	23.966	10.985	0.000
<b>145</b>	96.315	85.956	72.396	59.369	45.217	32.573	20.857	9.918	0.000
<b>150</b>	84.007	72.825	61.109	48.616	37.723	28.002	18.131	9.292	0.000
<b>155</b>	68.892	58.684	49.254	39.672	31.656	24.209	15.509	8.990	0.000
<b>160</b>	51.968	45.066	38.500	32.190	26.494	19.987	13.560	8.317	0.000
<b>165</b>	37.874	34.174	30.148	25.717	20.810	16.043	11.623	7.540	0.000
<b>170</b>	27.132	24.314	21.100	17.992	15.126	12.157	9.187	6.461	0.000
<b>175</b>	15.358	14.094	12.690	11.229	9.721	8.120	6.658	5.788	0.000
<b>180</b>	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	251.47	N.A.	6.30
0-30	552.63	N.A.	13.90
0-40	943.60	N.A.	23.80
0-60	1867.11	N.A.	47.00
0-80	2700.3	N.A.	68.00
0-90	2996.51	N.A.	75.50
10-90	2933.46	N.A.	73.90
20-40	692.14	N.A.	17.40
20-50	1142.99	N.A.	28.80
40-70	1372.58	N.A.	34.60
60-80	833.19	N.A.	21.00
70-80	384.12	N.A.	9.70
80-90	296.21	N.A.	7.50
90-110	443.21	N.A.	11.20
90-120	620.73	N.A.	15.60
90-130	762.07	N.A.	19.20
90-150	927.01	N.A.	23.40
90-180	973.45	N.A.	24.50
110-180	530.25	N.A.	13.40
0-180	3969.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	63.06
10-20	188.41
20-30	301.17
30-40	390.97
40-50	450.85
50-60	472.66
60-70	449.07
70-80	384.12
80-90	296.21
90-100	234.92
100-110	208.29
110-120	177.53
120-130	141.33
130-140	101.39
140-150	63.55
150-160	33.00
160-170	11.83
170-180	1.62

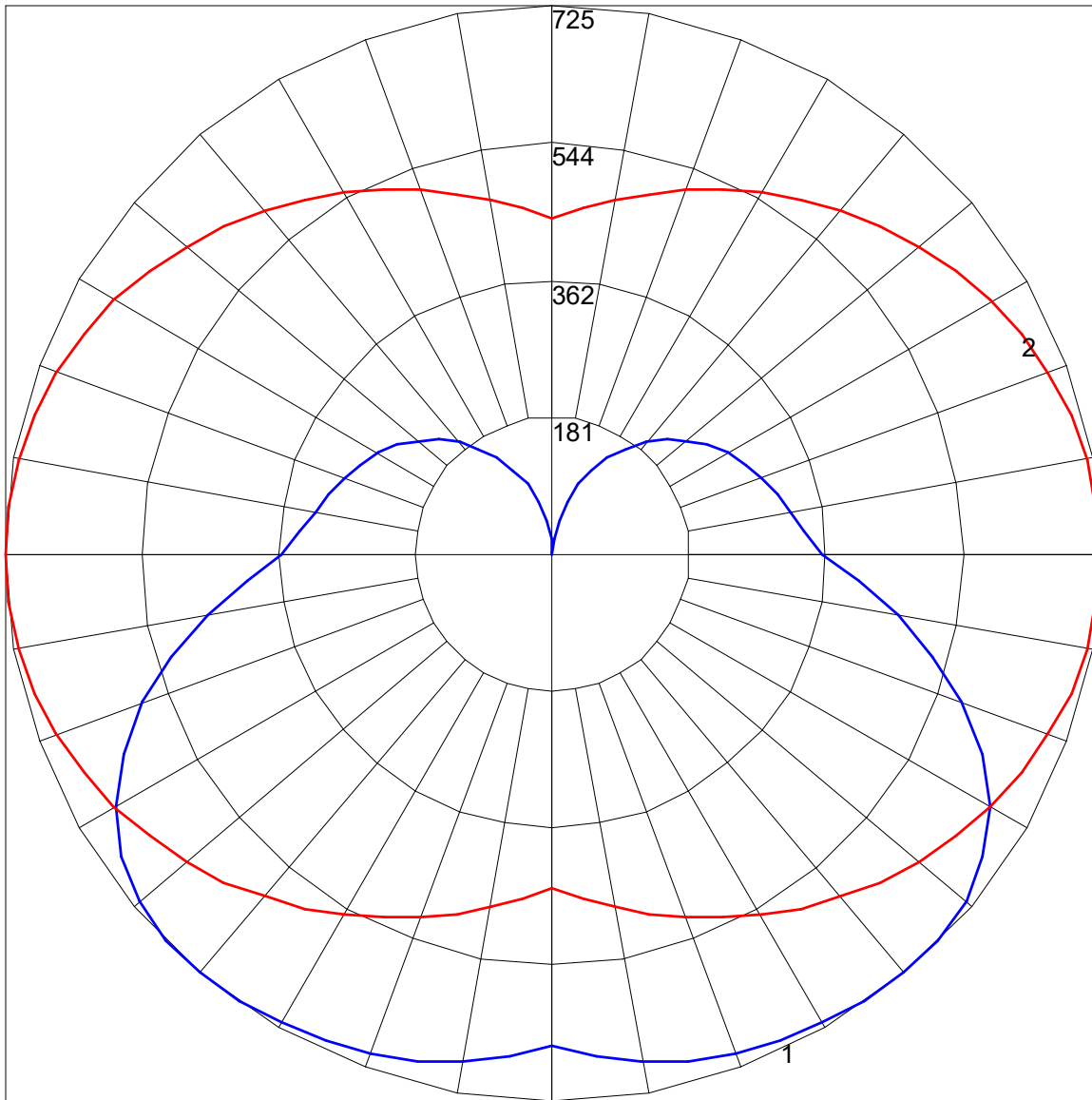
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	80	80	80	75
1	100	94	88	84	95	89	84	80	80	76	73	72	69	66	65	62	60	56
2	89	80	72	65	84	76	69	63	68	62	57	61	57	52	55	51	48	44
3	81	69	60	53	76	66	57	51	59	52	47	53	47	43	47	43	39	36
4	73	60	51	44	69	57	49	42	52	44	39	46	40	36	41	37	33	29
5	67	53	44	37	63	51	42	35	46	38	33	41	35	30	37	32	28	25
6	62	48	38	32	58	45	37	30	41	34	28	37	31	26	33	28	24	21
7	57	43	34	27	54	41	32	26	37	30	25	33	27	23	30	25	21	18
8	53	39	30	24	50	37	29	23	34	27	22	31	24	20	28	22	19	16
9	49	35	27	21	46	34	26	21	31	24	19	28	22	18	25	20	17	14
10	46	32	24	19	43	31	24	18	28	22	17	26	20	16	23	18	15	13

POLAR GRAPH



Maximum Candela = 724.988 Located At Horizontal Angle = 0, Vertical Angle = 40  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (40) (Through Max. Cd.)