

IES Report

ZipTwo® | 707 | Square 3572, Side Diffuse | 80 CRI | SO

707-Z2-4-48-XX-XX-X-0-Z-SO-35-H9-X-BL-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	133	137	140	140
Total Lumens, 4' rail length (1219mm)	3463	3572	3645	3645
Lumens per foot (305mm)	866	893	911	911
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_H9_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011203 (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-H9-BL

[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board, square 3572,

[MORE] 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	3645
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	26.17
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	0.22 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5839	4500	411
55	6485	5132	358
65	6827	5606	333
75	6946	5981	304
85	7030	6442	553

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PHOTOMETRIC FILENAME : VODE_707_Z2_SO_35_H9_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	21.425	21.425	21.425	21.425	21.425	21.425	21.425	21.425	21.425	21.425
5	44.150	43.999	43.616	42.734	41.516	40.066	38.315	36.215	33.942	31.413
10	100.247	99.818	98.646	96.651	93.740	90.236	86.002	80.945	75.354	69.426
15	161.310	160.683	158.595	155.243	150.371	144.304	137.147	128.795	119.352	109.492
20	226.362	225.388	222.326	217.326	210.180	201.330	190.971	178.918	165.207	150.916
25	293.561	292.239	288.063	281.404	271.730	260.107	246.245	229.912	212.222	193.302
30	359.867	358.069	353.011	344.706	332.885	318.014	300.405	280.279	258.402	234.877
35	423.365	421.614	415.245	404.886	390.943	372.801	352.918	328.419	301.774	273.331
40	483.070	480.681	473.350	461.634	444.999	423.516	401.000	372.801	342.513	310.138
45	536.164	533.530	525.074	511.850	493.128	470.473	443.294	413.644	379.076	343.151
50	580.209	577.193	568.052	554.051	534.551	509.124	479.718	446.124	409.898	368.961
55	613.072	610.206	601.066	586.426	565.430	538.982	508.544	472.712	429.490	392.544
60	634.265	631.260	622.062	607.098	585.556	559.549	528.334	491.678	450.637	408.923
65	644.183	641.178	631.887	617.352	596.936	570.047	539.029	502.616	462.991	417.090
70	643.510	640.691	632.038	617.978	598.096	572.622	542.532	506.502	466.007	419.769
75	634.369	631.690	623.720	610.450	591.391	567.565	538.739	504.066	464.835	418.992
80	619.394	616.865	609.278	596.936	579.524	556.533	528.716	496.631	460.265	415.442
85	601.205	598.978	591.925	580.592	564.305	542.718	517.105	485.889	449.964	409.561
90	581.566	579.327	572.912	562.368	546.754	526.628	502.373	472.816	438.631	401.290
95	561.243	559.201	552.984	542.625	527.893	509.275	485.982	458.026	426.138	389.528
100	541.221	539.272	533.101	523.369	509.808	491.434	468.965	442.470	411.846	379.564
105	520.898	519.100	513.509	504.066	490.552	472.955	451.762	425.894	394.006	365.075
110	499.983	498.185	492.548	483.511	470.044	453.270	432.842	408.343	380.874	349.612
115	477.526	475.774	470.136	461.193	448.502	431.926	411.800	390.062	363.416	333.767
120	453.026	451.414	446.066	437.366	425.163	409.074	390.502	368.915	342.560	314.221
125	425.987	424.235	419.328	410.826	399.110	385.445	367.407	345.726	320.786	294.188
130	396.140	394.586	390.398	383.067	371.884	357.582	340.425	320.253	297.586	269.874
135	365.609	364.101	359.577	352.048	341.829	328.361	312.423	291.415	265.060	237.986
140	329.730	328.419	324.139	317.422	307.945	295.603	277.124	252.567	228.648	205.459
145	291.218	289.954	286.311	280.036	271.579	255.142	234.436	213.869	194.080	174.882
150	250.282	249.168	246.059	240.712	227.975	209.345	192.769	176.436	162.191	149.501
155	207.501	206.573	203.661	196.318	178.721	165.103	153.004	144.200	134.676	123.679
160	162.876	162.040	159.222	144.443	132.878	123.784	118.923	113.181	105.258	94.169
165	117.264	116.684	106.326	97.869	91.791	89.993	87.023	82.070	73.799	66.851
170	72.825	67.477	59.021	55.088	55.622	55.668	53.534	50.124	46.574	42.839
175	32.086	25.334	25.334	27.712	29.267	28.733	27.910	26.738	25.230	23.536
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	21.425	21.425	21.425	21.425	21.425	21.425	21.425	21.425	21.425
5	28.687	25.914	23.826	22.214	21.100	20.764	20.857	20.903	20.810
10	62.814	55.912	48.766	41.134	33.454	25.717	21.100	20.520	20.416
15	98.554	87.174	75.597	63.301	51.052	38.454	26.158	19.743	19.929
20	135.256	119.120	102.776	85.573	68.556	51.295	34.417	19.882	19.256
25	172.689	151.496	129.955	107.207	85.620	63.638	42.294	22.121	19.059
30	208.916	182.607	156.020	128.203	101.906	76.966	49.393	25.184	18.189
35	242.846	212.222	180.716	148.039	118.042	87.070	57.223	28.884	16.333
40	274.978	238.763	203.174	167.585	132.391	96.651	63.452	32.283	15.068
45	304.442	264.631	224.472	182.851	144.002	107.694	72.488	34.371	14.778
50	328.512	285.870	242.162	197.003	154.802	113.819	75.748	36.760	12.250
55	348.255	302.354	255.780	209.299	164.476	120.327	79.680	39.092	10.695
60	363.857	316.112	267.786	218.300	170.752	123.876	82.209	39.869	9.234

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_SO_35_H9_BL.IES

CANDELA TABULATION - (Cont.)

65	371.884	324.870	275.465	223.892	175.752	127.426	83.137	40.310	7.586
70	375.376	328.906	278.922	228.462	178.860	131.173	89.993	42.294	6.032
75	378.253	330.171	280.523	230.016	180.914	130.732	90.724	42.537	4.570
80	376.014	328.953	280.186	228.752	180.078	130.883	90.190	41.331	4.478
85	369.541	324.475	277.031	226.409	178.524	131.266	89.552	41.714	3.793
90	361.572	316.599	271.243	224.274	177.306	128.795	89.842	41.957	3.109
95	352.431	309.940	265.362	217.709	172.063	125.582	88.195	40.496	3.596
100	341.156	300.312	257.381	211.294	167.295	122.902	87.371	38.071	4.176
105	328.071	288.886	247.660	204.833	162.330	119.596	83.230	36.760	3.990
110	314.801	277.321	237.986	196.423	155.289	113.378	75.261	33.640	4.280
115	299.489	263.900	226.513	186.690	147.796	107.393	67.582	28.536	5.150
120	282.274	249.168	213.289	176.100	138.956	101.558	62.907	24.406	5.545
125	264.526	231.466	196.956	161.855	126.115	93.589	54.358	19.929	5.928
130	238.519	206.967	175.264	142.112	110.362	77.592	45.600	16.774	6.415
135	209.496	182.027	154.025	124.607	96.361	67.964	38.558	15.126	6.902
140	181.296	157.714	133.307	107.834	82.650	58.336	31.888	13.468	7.192
145	156.844	137.982	113.088	90.770	69.472	46.818	26.599	12.296	7.482
150	134.572	114.248	94.227	76.084	57.130	38.500	23.826	11.716	8.074
155	107.451	91.454	77.639	61.944	46.330	33.153	21.193	11.716	9.141
160	83.334	72.001	59.949	48.186	37.584	27.863	18.525	11.577	10.011
165	59.415	51.249	43.709	36.169	29.070	21.970	15.312	11.275	10.498
170	38.605	34.522	30.044	25.427	20.810	16.286	12.644	11.136	10.892
175	21.634	19.639	17.261	15.022	13.178	12.006	11.472	11.229	11.275
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	33.64	N.A.	0.90
0-30	116.86	N.A.	3.20
0-40	276.18	N.A.	7.60
0-60	846.57	N.A.	23.20
0-80	1633.98	N.A.	44.80
0-90	2038.56	N.A.	55.90
10-90	2034.49	N.A.	55.80
20-40	242.54	N.A.	6.70
20-50	488.20	N.A.	13.40
40-70	951.21	N.A.	26.10
60-80	787.41	N.A.	21.60
70-80	406.58	N.A.	11.20
80-90	404.58	N.A.	11.10
90-110	727.02	N.A.	19.90
90-120	1022.21	N.A.	28.00
90-130	1257.57	N.A.	34.50
90-150	1531.82	N.A.	42.00
90-180	1606.64	N.A.	44.10
110-180	879.63	N.A.	24.10
0-180	3645.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	4.07
10-20	29.57
20-30	83.22
30-40	159.32
40-50	245.66
50-60	324.72
60-70	380.83
70-80	406.58
80-90	404.58
90-100	382.15
100-110	344.86
110-120	295.19
120-130	235.37
130-140	168.92
140-150	105.32
150-160	53.68
160-170	18.70
170-180	2.44

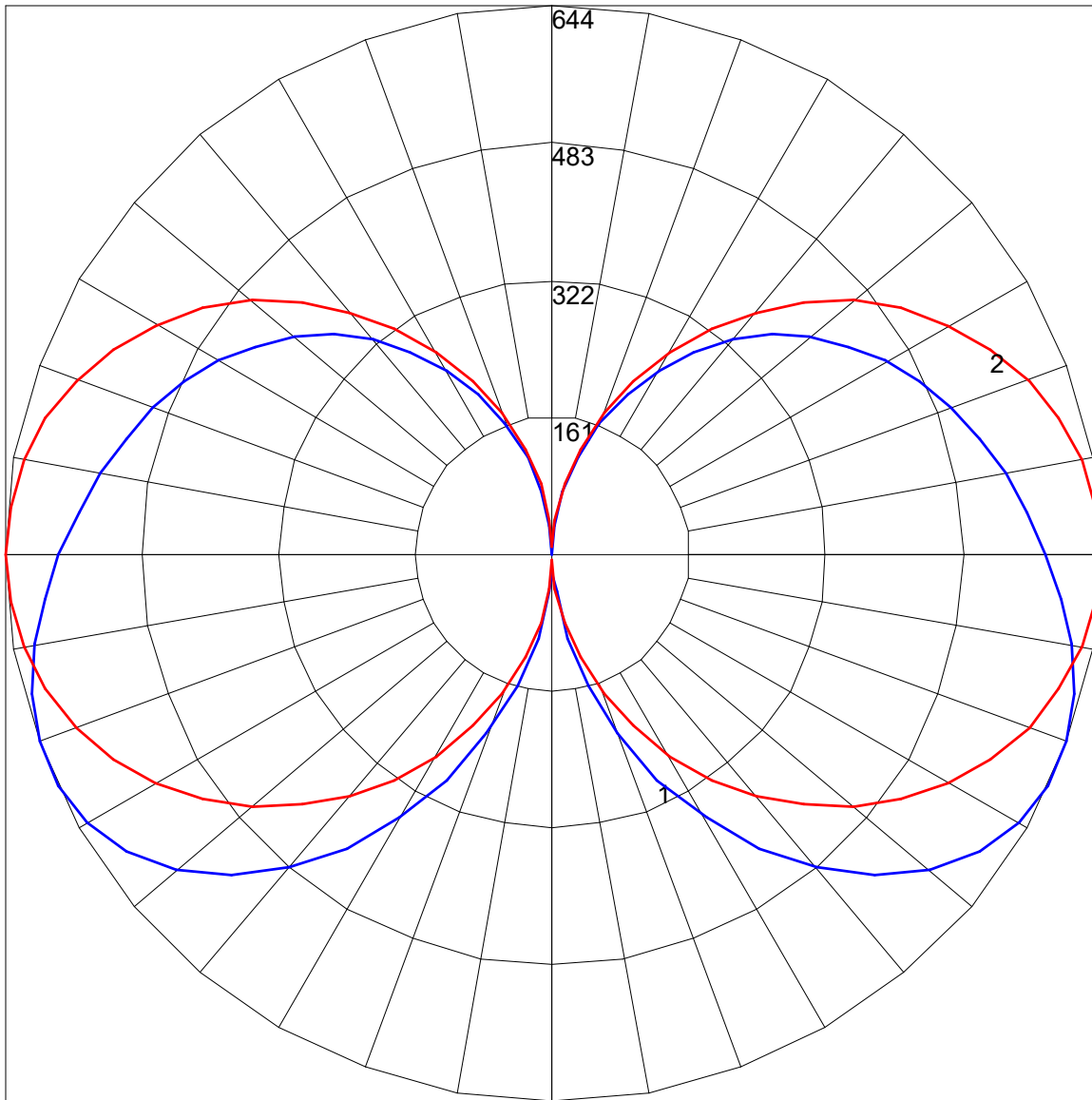
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	86	80	75	86	80	74	69	67	63	59	56	52	49	45	43	40	35
2	83	72	63	56	76	66	59	52	55	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	35	61	49	40	33	40	33	28	33	27	23	26	21	18	14
5	60	46	36	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	9
7	51	36	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	21	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	13	37	25	17	12	21	15	10	17	12	8	14	9	6	4

POLAR GRAPH



Maximum Candela = 644.183 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.)