

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	132	136	139	139
Total Lumens, 4' rail length (1219mm)	5194	5358	5468	5468
Lumens per foot (305mm)	1299	1340	1367	1367
Input Power (W), 4' rail length (1219mm)	39.6	39.6	39.6	39.6
Watts per foot (305mm)	9.9	9.9	9.9	9.9
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_HO_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-HO-35-H9-BL

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

[MORE] side diffuse black lens, high output

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5468
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	39.55
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	8758	6751	616
55	9728	7698	538
65	10240	8409	499
75	10419	8972	455
85	10545	9663	830

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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	32.138	32.138	32.138	32.138	32.138	32.138	32.138	32.138	32.138	32.138
5	66.224	65.998	65.424	64.102	62.275	60.100	57.472	54.323	50.912	47.119
10	150.371	149.727	147.970	144.977	140.609	135.355	129.004	121.417	113.030	104.139
15	241.964	241.025	237.893	232.864	225.556	216.456	205.720	193.192	179.029	164.239
20	339.544	338.082	333.488	325.989	315.271	301.994	286.456	268.378	247.811	226.374
25	440.342	438.358	432.094	422.107	407.595	390.160	369.367	344.868	318.333	289.954
30	539.800	537.103	529.517	517.058	499.328	477.021	450.608	420.419	387.602	352.315
35	635.048	632.420	622.868	607.330	586.415	559.201	529.378	492.629	452.661	409.996
40	724.606	721.021	710.024	692.450	667.499	635.274	601.501	559.201	513.770	465.206
45	804.245	800.296	787.611	767.775	739.691	705.709	664.941	620.467	568.615	514.727
50	870.313	865.789	852.078	831.076	801.827	763.686	719.577	669.187	614.846	553.442
55	919.607	915.310	901.598	879.640	848.146	808.474	762.816	709.067	644.235	588.816
60	951.397	946.891	933.092	910.646	878.335	839.324	792.500	737.516	675.955	613.385
65	966.274	961.768	947.830	926.028	895.404	855.071	808.543	753.925	694.486	625.634
70	965.265	961.037	948.056	926.968	897.144	858.934	813.798	759.754	699.010	629.654
75	951.554	947.534	935.581	915.675	887.087	851.347	808.108	756.100	697.253	628.488
80	929.090	925.297	913.918	895.404	869.287	834.800	793.075	744.946	690.397	623.164
85	901.807	898.466	887.887	870.887	846.458	814.076	775.657	728.834	674.946	614.342
90	872.349	868.991	859.369	843.552	820.132	789.943	753.559	709.224	657.946	601.936
95	841.864	838.802	829.475	813.937	791.839	763.912	728.973	687.039	639.206	584.292
100	811.832	808.909	799.652	785.053	764.713	737.151	703.447	663.706	617.770	569.345
105	781.347	778.650	770.263	756.100	735.829	709.433	677.643	638.841	591.008	547.613
110	749.975	747.278	738.821	725.267	705.065	679.905	649.264	612.515	571.312	524.419
115	716.288	713.661	705.205	691.789	672.754	647.889	617.700	585.092	545.125	500.650
120	679.540	677.121	669.100	656.050	637.745	613.611	585.754	553.372	513.839	471.331
125	638.980	636.353	628.993	616.238	598.664	578.167	551.110	518.590	481.180	441.281
130	594.210	591.878	585.597	574.600	557.827	536.372	510.638	480.379	446.380	404.811
135	548.413	546.151	539.365	528.073	512.743	492.542	468.634	437.123	397.590	356.978
140	494.595	492.629	486.208	476.134	461.918	443.404	415.686	378.850	342.971	308.189
145	436.827	434.930	429.467	420.053	407.369	382.713	351.654	320.804	291.119	262.322
150	375.422	373.752	369.089	361.067	341.962	314.018	289.153	264.654	243.287	224.251
155	311.251	309.859	305.492	294.478	268.082	247.654	229.506	216.299	202.014	185.519
160	244.313	243.061	238.832	216.665	199.317	185.675	178.385	169.772	157.888	141.253
165	175.897	175.027	159.488	146.804	137.686	134.989	130.535	123.105	110.699	100.276
170	109.237	101.216	88.531	82.633	83.433	83.503	80.301	75.185	69.861	64.258
175	48.128	38.002	38.002	41.569	43.900	43.100	41.864	40.107	37.845	35.305
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	32.138	32.138	32.138	32.138	32.138	32.138	32.138	32.138	32.138
5	43.030	38.872	35.740	33.321	31.651	31.146	31.285	31.355	31.216
10	94.221	83.868	73.150	61.700	50.182	38.576	31.651	30.781	30.624
15	147.830	130.761	113.396	94.952	76.577	57.681	39.237	29.615	29.893
20	202.884	178.681	154.164	128.360	102.834	76.943	51.626	29.824	28.884
25	259.034	227.244	194.932	160.811	128.429	95.456	63.440	33.182	28.588
30	313.374	273.911	234.030	192.305	152.859	115.449	74.089	37.775	27.283
35	364.269	318.333	271.075	222.059	177.062	130.604	85.834	43.326	24.499
40	412.467	358.144	304.761	251.378	198.586	144.977	95.178	48.424	22.603
45	456.663	396.946	336.707	274.276	216.004	161.542	108.733	51.556	22.168
50	492.768	428.806	363.242	295.504	232.203	170.729	113.622	55.141	18.374
55	522.383	453.531	383.670	313.948	246.715	180.490	119.521	58.638	16.043
60	545.786	474.167	401.679	327.451	256.128	185.815	123.314	59.804	13.850

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CANDELA TABULATION - (Cont.)

65	557.827	487.304	413.198	335.837	263.627	191.139	124.706	60.465	11.380
70	563.064	493.360	418.383	342.693	268.291	196.759	134.989	63.440	9.048
75	567.379	495.256	420.784	345.025	271.370	196.098	136.085	63.806	6.856
80	564.021	493.429	420.280	343.128	270.118	196.324	135.285	61.996	6.716
85	554.312	486.713	415.547	339.613	267.786	196.898	134.328	62.570	5.690
90	542.358	474.898	406.864	336.412	265.959	193.192	134.763	62.936	4.663
95	528.647	464.911	398.042	326.563	258.094	188.372	132.292	60.743	5.394
100	511.734	450.469	386.071	316.941	250.943	184.353	131.057	57.107	6.264
105	492.107	433.330	371.490	307.249	243.496	179.394	124.845	55.141	5.986
110	472.201	415.982	356.978	294.634	232.934	170.068	112.891	50.460	6.421
115	449.233	395.850	339.770	280.036	221.693	161.089	101.372	42.804	7.726
120	423.412	373.752	319.934	264.149	208.435	152.337	94.360	36.610	8.317
125	396.790	347.200	295.435	242.782	189.173	140.383	81.536	29.893	8.891
130	357.779	310.451	262.897	213.167	165.544	116.389	68.399	25.160	9.622
135	314.244	273.041	231.037	186.911	144.542	101.947	57.838	22.690	10.353
140	271.945	236.570	199.961	161.750	123.975	87.505	47.833	20.201	10.788
145	235.265	206.973	169.633	136.155	104.209	70.226	39.898	18.444	11.223
150	201.857	171.373	141.340	114.127	85.695	57.751	35.740	17.574	12.110
155	161.176	137.182	116.458	92.916	69.496	49.729	31.790	17.574	13.711
160	125.002	108.002	89.923	72.280	56.376	41.795	27.788	17.365	15.016
165	89.123	76.873	65.563	54.253	43.604	32.956	22.968	16.913	15.747
170	57.907	51.782	45.066	38.141	31.216	24.430	18.966	16.704	16.339
175	32.451	29.458	25.891	22.533	19.766	18.009	17.209	16.843	16.913
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	50.46	N.A.	0.90
0-30	175.29	N.A.	3.20
0-40	414.28	N.A.	7.60
0-60	1269.85	N.A.	23.20
0-80	2450.97	N.A.	44.80
0-90	3057.84	N.A.	55.90
10-90	3051.73	N.A.	55.80
20-40	363.82	N.A.	6.70
20-50	732.30	N.A.	13.40
40-70	1426.82	N.A.	26.10
60-80	1181.12	N.A.	21.60
70-80	609.87	N.A.	11.20
80-90	606.87	N.A.	11.10
90-110	1090.52	N.A.	19.90
90-120	1533.31	N.A.	28.00
90-130	1886.36	N.A.	34.50
90-150	2297.73	N.A.	42.00
90-180	2409.97	N.A.	44.10
110-180	1319.44	N.A.	24.10
0-180	5467.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	6.11
10-20	44.35
20-30	124.83
30-40	238.99
40-50	368.49
50-60	487.08
60-70	571.25
70-80	609.87
80-90	606.87
90-100	573.23
100-110	517.29
110-120	442.78
120-130	353.05
130-140	253.38
140-150	157.98
150-160	80.53
160-170	28.05
170-180	3.66

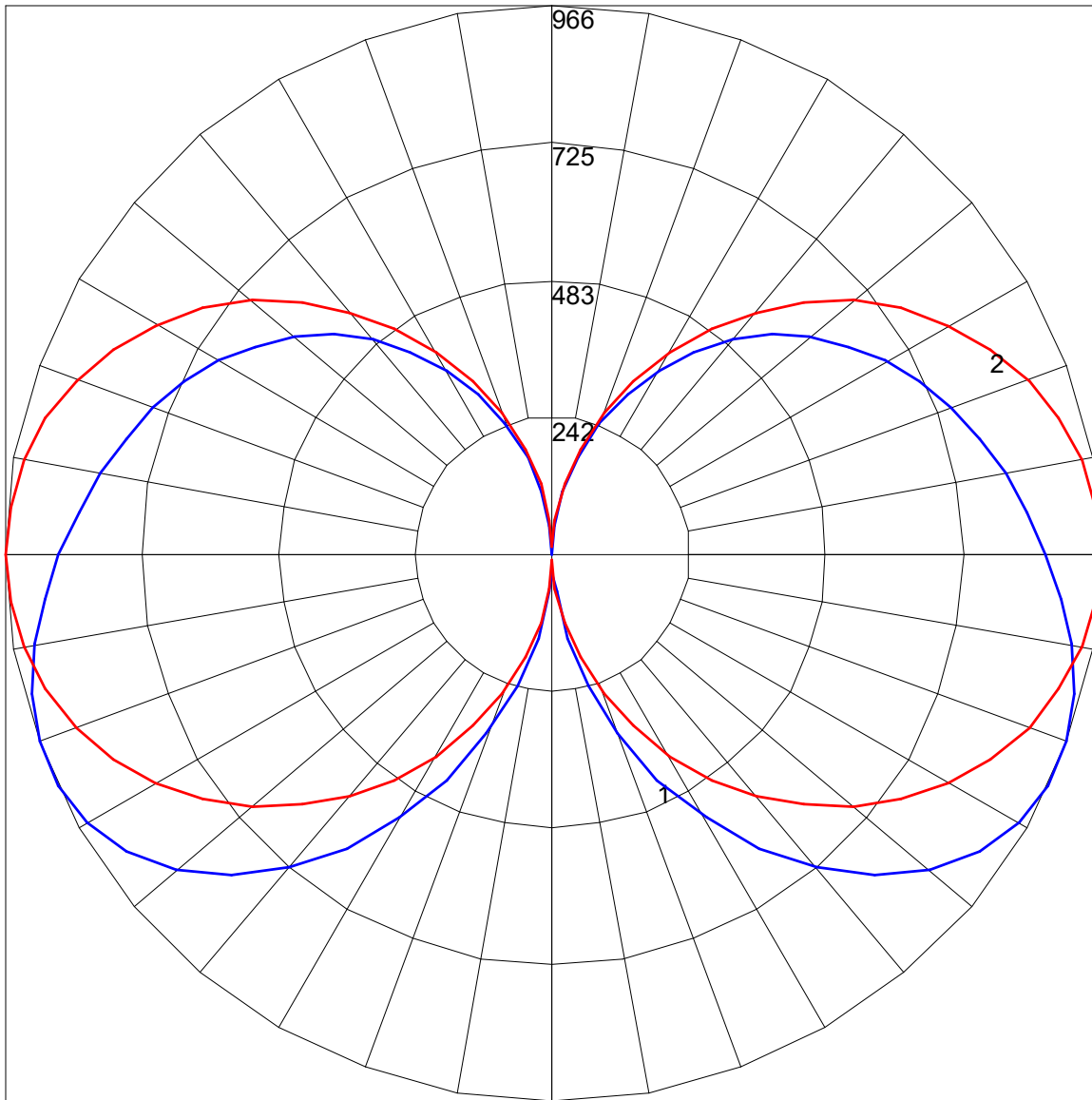
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	82	72	63	56	75	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 = 966.274 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.)