

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	144	148	151	151
Total Lumens, 4' rail length (1219mm)	5657	5836	5955	5955
Lumens per foot (305mm)	1414	1459	1489	1489
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_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-HO-35-S6-AL

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

[MORE] high 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	5955
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	151
Total Luminaire Watts	39.55
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	20623	19309	20279
55	20544	18696	19100
65	19769	17925	17904
75	18260	16961	16912
85	16575	15955	17178

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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	976.314	976.314	976.314	976.314	976.314	976.314	976.314	976.314	976.314	976.314
5	1000.413	1000.343	1000.343	999.908	998.586	997.786	996.481	995.019	993.053	990.930
10	1025.939	1025.800	1024.912	1023.451	1021.484	1018.718	1015.516	1011.723	1007.999	1003.702
15	1044.174	1043.739	1042.277	1040.015	1036.518	1032.133	1027.035	1020.980	1013.759	1006.312
20	1058.320	1057.363	1054.962	1051.238	1046.279	1039.424	1031.263	1022.285	1012.088	1001.440
25	1068.812	1067.507	1064.288	1059.051	1051.238	1041.912	1031.037	1017.917	1003.841	989.103
30	1076.990	1076.190	1071.231	1064.080	1053.570	1041.112	1026.443	1009.461	990.721	971.459
35	1083.689	1082.019	1076.625	1067.072	1053.500	1037.318	1018.579	996.759	972.921	948.491
40	1087.483	1085.221	1078.087	1066.342	1050.229	1029.871	1006.677	980.142	951.328	921.800
45	1084.855	1082.019	1073.632	1059.921	1040.885	1017.187	989.764	958.775	924.723	890.723
50	1072.327	1069.108	1059.625	1044.609	1023.085	996.324	965.839	930.395	892.707	854.044
55	1045.479	1042.051	1032.429	1016.317	993.627	965.039	932.379	894.377	853.540	811.240
60	1002.170	998.812	989.103	972.991	950.388	921.295	887.887	848.789	805.777	761.650
65	941.636	938.782	929.595	913.987	892.846	864.850	831.807	792.935	750.340	705.065
70	867.251	864.763	856.376	842.525	822.463	795.998	764.643	728.242	687.265	642.860
75	783.818	781.417	774.265	761.720	743.937	720.221	691.354	657.442	619.075	578.098
80	696.592	694.625	688.501	677.573	661.809	640.511	614.777	582.326	549.718	511.003
85	611.854	609.957	604.424	594.871	581.804	564.021	540.966	512.830	479.283	443.474
90	537.034	535.276	529.969	521.287	508.306	491.011	469.939	443.770	414.085	379.442
95	503.486	501.955	497.066	489.044	477.299	460.891	441.508	417.583	389.656	358.649
100	481.023	479.788	475.264	467.538	456.298	441.142	422.750	400.078	373.387	343.998
105	461.187	459.952	455.497	448.207	437.279	422.750	405.107	383.374	358.005	330.061
110	441.786	440.481	436.462	429.032	418.157	404.306	387.324	366.670	341.962	315.410
115	421.672	420.280	416.260	409.196	398.547	385.201	368.723	348.592	325.554	299.941
120	400.078	398.843	394.684	387.672	377.615	364.339	348.452	329.695	307.528	283.394
125	376.014	374.918	370.829	364.060	354.490	341.806	326.633	308.920	287.779	265.159
130	349.618	348.365	344.433	338.012	328.895	317.080	302.934	285.795	266.690	243.791
135	320.438	319.273	315.549	309.720	301.124	290.180	277.130	260.722	238.537	214.699
140	289.084	287.918	284.560	279.166	271.283	261.296	246.854	226.078	206.451	186.406
145	255.536	254.597	251.447	246.488	239.789	226.739	209.078	192.235	176.123	159.784
150	220.684	219.797	217.100	212.941	202.588	187.207	173.495	160.289	148.474	138.052
155	184.649	183.848	181.656	175.531	161.385	150.301	140.174	133.023	125.802	116.911
160	148.196	147.674	145.342	132.727	123.610	116.180	112.387	107.497	99.980	88.462
165	108.959	108.437	98.745	90.863	85.173	83.363	80.666	75.847	68.399	62.866
170	68.399	62.797	55.280	51.991	53.244	53.314	51.922	49.816	47.328	44.266
175	27.718	26.396	26.465	28.588	29.615	29.458	28.884	27.718	26.396	24.934
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	976.314	976.314	976.314	976.314	976.314	976.314	976.314	976.314	976.314
5	988.894	986.336	984.144	981.238	978.680	975.983	973.582	971.233	970.363
10	998.516	993.488	988.094	982.108	976.053	970.224	964.030	958.044	954.912
15	998.290	989.903	981.517	972.416	963.212	953.746	944.037	934.554	927.785
20	989.625	977.654	964.830	952.128	939.374	926.393	913.709	900.798	891.315
25	973.356	956.582	940.035	922.966	906.488	890.358	874.176	858.272	844.927
30	950.893	929.317	908.297	887.296	866.816	846.319	826.622	807.586	790.813
35	922.826	896.709	870.748	845.657	820.358	796.067	772.734	750.706	731.026
40	890.880	859.804	828.379	798.486	769.167	741.223	714.392	689.301	666.838
45	854.201	818.235	782.513	747.869	714.253	682.445	652.622	624.764	599.900
50	812.545	772.664	732.557	693.755	657.511	621.632	589.181	558.540	531.640
55	766.105	722.639	679.105	636.875	597.412	559.497	524.192	491.463	462.649
60	714.026	668.299	622.363	578.306	536.459	495.900	457.759	423.847	392.927

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CANDELA TABULATION - (Cont.)

65	657.007	610.027	563.290	517.128	473.071	432.164	392.196	356.752	324.527
70	596.037	548.987	501.520	454.192	410.135	367.836	327.364	291.641	258.164
75	531.935	485.686	438.950	392.057	348.000	305.353	265.089	228.340	194.132
80	467.903	423.638	378.119	333.053	289.675	247.219	206.451	169.111	139.148
85	404.376	361.572	318.107	273.250	230.741	188.233	148.909	111.499	77.012
90	342.101	302.134	260.495	216.665	175.027	133.684	92.759	55.506	21.002
95	323.362	285.882	246.488	204.920	164.813	125.002	85.973	49.016	15.173
100	310.677	275.807	237.597	198.865	159.784	121.783	83.642	48.198	14.007
105	298.410	264.654	228.619	192.096	153.799	116.389	80.144	45.362	12.406
110	286.091	252.839	218.927	182.978	147.535	110.490	75.916	40.264	10.788
115	271.283	240.659	208.139	173.130	139.357	104.435	70.957	35.148	9.048
120	256.041	227.018	196.098	163.142	131.057	98.084	65.424	29.389	7.586
125	239.354	212.002	182.248	150.301	119.886	89.123	55.645	24.725	6.560
130	217.326	190.043	162.342	134.032	107.201	79.709	47.328	21.141	6.421
135	191.139	167.440	143.515	118.720	95.091	68.399	41.203	18.444	0.000
140	166.414	146.073	125.802	104.278	82.198	57.542	35.948	16.478	0.000
145	144.472	128.934	108.593	89.053	67.825	48.859	31.285	14.877	0.000
150	126.011	109.237	91.663	72.923	56.585	42.004	27.196	13.937	0.000
155	103.339	88.027	73.880	59.508	47.485	36.314	23.264	13.485	0.000
160	77.952	67.599	57.751	48.285	39.742	29.980	20.341	12.476	0.000
165	56.811	51.260	45.223	38.576	31.216	24.064	17.435	11.310	0.000
170	40.699	36.470	31.651	26.987	22.690	18.235	13.781	9.692	0.000
175	23.038	21.141	19.036	16.843	14.581	12.180	9.988	8.683	0.000
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	377.20	N.A.	6.30
0-30	828.95	N.A.	13.90
0-40	1415.4	N.A.	23.80
0-60	2800.67	N.A.	47.00
0-80	4050.46	N.A.	68.00
0-90	4494.77	N.A.	75.50
10-90	4400.19	N.A.	73.90
20-40	1038.2	N.A.	17.40
20-50	1714.48	N.A.	28.80
40-70	2058.87	N.A.	34.60
60-80	1249.79	N.A.	21.00
70-80	576.18	N.A.	9.70
80-90	444.32	N.A.	7.50
90-110	664.81	N.A.	11.20
90-120	931.10	N.A.	15.60
90-130	1143.1	N.A.	19.20
90-150	1390.51	N.A.	23.40
90-180	1460.18	N.A.	24.50
110-180	795.37	N.A.	13.40
0-180	5954.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	94.59
10-20	282.61
20-30	451.75
30-40	586.45
40-50	676.28
50-60	708.99
60-70	673.61
70-80	576.18
80-90	444.32
90-100	352.38
100-110	312.43
110-120	266.29
120-130	212.00
130-140	152.08
140-150	95.33
150-160	49.50
160-170	17.74
170-180	2.43

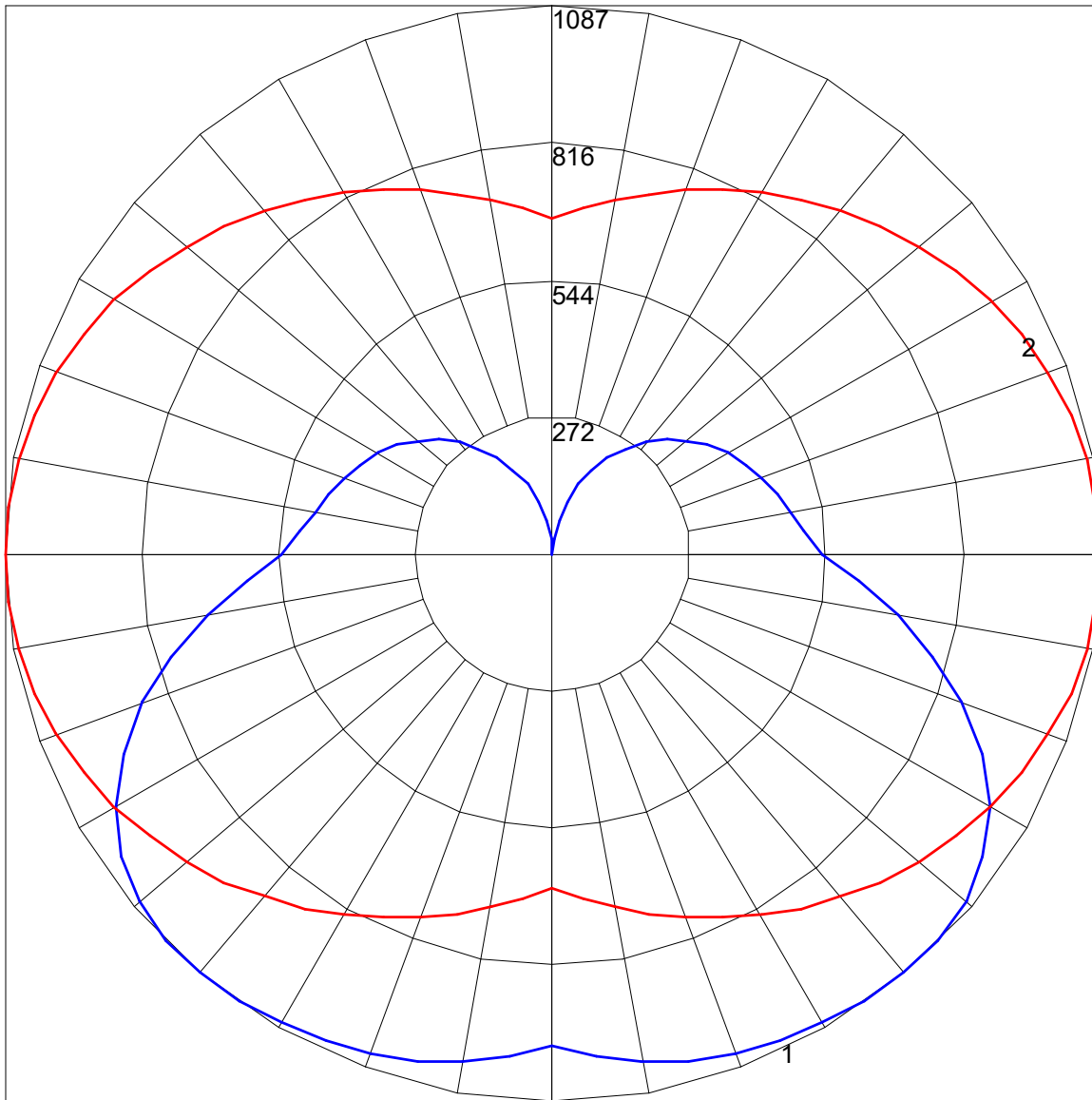
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1087.483 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.)