

IES Report

ZipThree® | 707 | Symmetric with EdgeGlow™, up | 85° Asymmetric , down | 90 CRI | SO

707-Z3-4-48-XX-XX-X-0-Z-SO-359-U2A1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	111	114	117	122
Total Lumens, 4' rail length (1219mm)	5827	6011	6134	6195
Lumens per foot (305mm)	1457	1503	1534	1549
Lumens per foot UP (305mm)	867	894	912	922
Lumens per foot DOWN (305mm)	590	609	621	627
Input Power (W), 4' rail length (1219mm)	52.8	52.8	52.8	52.8
Watts per foot (305mm)	13.3	13.3	13.3	13.3
CRI	94	94	94	94

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_Z3_SO_359_U2A1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911545 / L121911542R01 (SOURCE REPORTS FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] VODE LIGHTING

[LUMCAT] 707-Z3-48-Z-SO-359-U2A1-AL

[LUMINAIRE] ZipThree LED, 48", 3500K, 90 CRI, zipper board, symmetric lens with edgeglow up/85° asymmetric lens down,

[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	6134
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	52.8
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)	0.17 ft
Luminous Width (90-270)	3.98 ft
Luminous Height	0.02 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	19850	19773	15208
55	17200	17481	13289
65	13514	13952	10753
75	9388	9835	7957
85	4200	4487	4656

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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	1083	1083	1083	1083	1083	1083	1083	1083	1083	1083
5	1173	1173	1172	1170	1168	1165	1162	1158	1153	1148
10	1244	1243	1242	1239	1236	1230	1225	1218	1209	1201
15	1282	1281	1279	1276	1272	1266	1259	1251	1241	1229
20	1290	1289	1288	1285	1281	1274	1267	1258	1248	1236
25	1273	1273	1271	1268	1264	1258	1252	1243	1232	1220
30	1236	1235	1234	1231	1227	1221	1215	1206	1196	1185
35	1176	1176	1174	1172	1168	1163	1157	1150	1140	1129
40	1093	1092	1092	1090	1087	1083	1078	1071	1063	1053
45	987	987	986	985	983	979	976	971	964	956
50	862	862	861	861	859	857	854	851	846	839
55	725	725	725	724	723	722	720	717	713	709
60	585	585	585	584	583	583	581	579	576	572
65	450	450	450	450	449	448	447	446	443	440
70	329	329	329	329	328	328	327	325	323	321
75	220	220	220	220	219	219	218	216	215	212
80	127	127	127	127	127	126	125	124	123	121
85	54	54	54	54	53	52	52	51	50	49
90	20	20	19	19	18	17	16	14	13	12
95	59	59	58	58	57	56	55	54	53	51
100	116	116	116	116	115	115	114	113	113	112
105	190	190	190	190	190	190	190	190	190	190
110	279	279	280	280	280	281	281	282	283	283
115	383	383	384	384	385	386	387	388	389	391
120	500	500	500	501	502	503	505	507	509	510
125	624	624	625	626	627	629	630	632	635	637
130	750	750	751	752	753	755	757	759	761	764
135	871	871	872	873	874	876	877	879	881	884
140	981	981	981	983	984	985	986	988	990	992
145	1077	1078	1078	1079	1079	1080	1082	1083	1084	1086
150	1159	1159	1159	1159	1160	1161	1162	1162	1163	1164
155	1225	1225	1225	1225	1226	1226	1227	1228	1228	1229
160	1278	1278	1278	1278	1279	1279	1279	1279	1279	1280
165	1318	1318	1318	1318	1318	1318	1318	1318	1318	1318
170	1345	1345	1345	1345	1345	1345	1345	1345	1345	1346
175	1360	1360	1361	1360	1360	1360	1361	1361	1360	1361
180	1364	1364	1364	1364	1364	1364	1364	1364	1364	1364

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>	<u>95</u>
0	1083	1083	1083	1083	1083	1083	1083	1083	1083	1083
5	1142	1136	1129	1122	1114	1106	1098	1089	1080	1070
10	1190	1179	1166	1152	1137	1121	1104	1086	1066	1045
15	1216	1201	1184	1166	1145	1123	1098	1072	1042	1011
20	1220	1204	1185	1164	1139	1112	1080	1046	1008	967
25	1205	1188	1168	1145	1117	1085	1050	1010	964	913
30	1171	1153	1133	1109	1080	1046	1007	963	909	850
35	1116	1099	1079	1055	1027	992	951	902	844	778
40	1040	1024	1007	984	956	921	879	829	767	697
45	945	931	914	893	867	833	792	742	680	608
50	830	819	804	784	761	730	690	643	582	515
55	701	692	680	663	643	615	580	536	483	421
60	567	559	549	536	518	495	465	428	382	329

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CANDELA TABULATION - (Cont.)

65	435	429	421	410	396	378	354	325	289	246
70	317	312	306	297	286	272	254	232	205	174
75	209	206	201	195	187	178	165	150	132	113
80	119	116	113	109	104	99	91	83	73	62
85	47	46	44	42	40	37	35	31	27	23
90	10	9	7	6	5	4	3	3	2	3
95	50	48	47	45	44	42	41	41	40	41
100	111	110	109	108	107	106	105	104	104	104
105	190	189	189	189	188	188	188	187	187	187
110	284	284	285	285	286	286	286	286	286	286
115	392	393	395	396	397	397	398	398	398	398
120	512	514	516	518	519	521	521	522	522	522
125	639	642	644	646	648	650	651	651	651	651
130	766	768	771	773	775	777	777	778	778	778
135	886	888	890	892	894	895	896	897	896	897
140	994	995	997	999	1000	1001	1002	1002	1002	1002
145	1087	1088	1090	1090	1091	1092	1092	1093	1093	1093
150	1165	1166	1167	1168	1168	1169	1169	1169	1169	1169
155	1229	1230	1230	1230	1231	1231	1231	1231	1231	1231
160	1280	1281	1281	1281	1281	1281	1281	1281	1282	1281
165	1319	1319	1319	1319	1319	1319	1319	1320	1319	1320
170	1346	1345	1346	1346	1346	1346	1346	1346	1345	1346
175	1361	1361	1361	1361	1361	1361	1361	1361	1361	1361
180	1364	1364	1364	1364	1364	1364	1364	1364	1364	1364

Vert. Horizontal Angles
Angles

	100	105	110	115	120	125	130	135	140	145
0	1083	1083	1083	1083	1083	1083	1083	1083	1083	1083
5	1061	1052	1042	1033	1025	1016	1008	1000	993	986
10	1025	1004	982	961	940	920	901	881	864	848
15	979	946	911	876	843	810	779	748	721	696
20	922	877	830	783	735	691	650	611	578	547
25	859	801	741	684	624	573	526	483	447	416
30	787	718	649	583	518	463	415	373	338	309
35	707	631	555	485	419	366	321	283	252	229
40	621	541	463	395	332	284	245	213	188	170
45	532	452	377	314	259	218	186	161	143	129
50	442	368	302	247	201	168	143	124	111	101
55	343	290	235	190	154	129	110	96	87	81
60	275	223	179	145	117	98	85	76	69	64
65	205	165	132	107	89	75	65	58	53	50
70	145	118	94	79	64	55	48	43	40	37
75	94	78	63	52	43	37	33	30	27	25
80	52	43	35	29	25	22	19	17	16	15
85	20	17	14	12	10	9	8	8	7	7
90	3	4	5	6	7	9	10	12	13	14
95	41	42	44	45	47	48	50	51	53	54
100	105	106	107	108	109	110	111	112	113	113
105	188	188	188	189	189	189	190	190	190	190
110	286	286	286	285	285	284	284	283	283	282
115	398	397	397	396	395	393	392	391	389	388
120	521	521	519	518	516	514	512	510	509	507
125	651	650	648	646	644	642	639	637	635	632
130	777	777	775	773	771	768	766	764	761	759
135	896	895	894	892	890	888	886	884	881	879

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CANDELA TABULATION - (Cont.)

140	1002	1001	1000	999	997	995	994	992	990	988
145	1092	1092	1091	1090	1090	1088	1087	1086	1084	1083
150	1169	1169	1168	1168	1167	1166	1165	1164	1163	1162
155	1231	1231	1231	1230	1230	1230	1229	1229	1228	1228
160	1281	1281	1281	1281	1281	1281	1280	1280	1279	1279
165	1319	1319	1319	1319	1319	1319	1319	1318	1318	1318
170	1346	1346	1346	1346	1346	1345	1346	1346	1345	1345
175	1361	1361	1361	1361	1361	1361	1361	1361	1360	1361
180	1364	1364	1364	1364	1364	1364	1364	1364	1364	1364

Vert. Horizontal Angles
Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	1083	1083	1083	1083	1083	1083	1083
5	980	976	971	968	966	964	964
10	834	822	812	804	799	795	794
15	675	656	641	629	621	616	614
20	521	500	482	469	459	453	452
25	389	368	352	339	330	325	323
30	286	268	254	243	236	232	230
35	210	195	184	176	170	167	166
40	155	145	137	131	128	125	125
45	119	112	106	102	100	98	98
50	94	89	85	83	82	81	80
55	76	72	70	68	67	66	66
60	60	58	56	55	54	53	53
65	47	45	44	43	42	42	42
70	35	34	33	32	32	31	31
75	24	23	22	22	22	21	21
80	14	14	13	13	13	13	13
85	6	6	6	6	6	6	6
90	16	17	18	19	19	20	20
95	55	56	57	58	58	59	59
100	114	115	115	116	116	116	116
105	190	190	190	190	190	190	190
110	281	281	280	280	280	279	279
115	387	386	385	384	384	383	383
120	505	503	502	501	500	500	500
125	630	629	627	626	625	624	624
130	757	755	753	752	751	750	750
135	877	876	874	873	872	871	871
140	986	985	984	983	981	981	981
145	1082	1080	1079	1079	1078	1078	1077
150	1162	1161	1160	1159	1159	1159	1159
155	1227	1226	1226	1225	1225	1225	1225
160	1279	1279	1279	1278	1278	1278	1278
165	1318	1318	1318	1318	1318	1318	1318
170	1345	1345	1345	1345	1345	1345	1345
175	1361	1360	1360	1360	1361	1360	1360
180	1364	1364	1364	1364	1364	1364	1364

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	380.60	N.A.	6.20
0-30	779.90	N.A.	12.70
0-40	1236.82	N.A.	20.20
0-60	2058.67	N.A.	33.60
0-80	2446.53	N.A.	39.90
0-90	2484.12	N.A.	40.50
10-90	2382.65	N.A.	38.80
20-40	856.22	N.A.	14.00
20-50	1304.61	N.A.	21.30
40-70	1077.27	N.A.	17.60
60-80	387.87	N.A.	6.30
70-80	132.44	N.A.	2.20
80-90	37.59	N.A.	0.60
90-110	264.66	N.A.	4.30
90-120	654.37	N.A.	10.70
90-130	1224.44	N.A.	20.00
90-150	2582.47	N.A.	42.10
90-180	3649.84	N.A.	59.50
110-180	3385.18	N.A.	55.20
0-180	6133.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	101.47
10-20	279.13
20-30	399.29
30-40	456.93
40-50	448.39
50-60	373.45
60-70	255.43
70-80	132.44
80-90	37.59
90-100	60.86
100-110	203.80
110-120	389.71
120-130	570.07
130-140	680.23
140-150	677.81
150-160	565.82
160-170	372.16
170-180	129.38

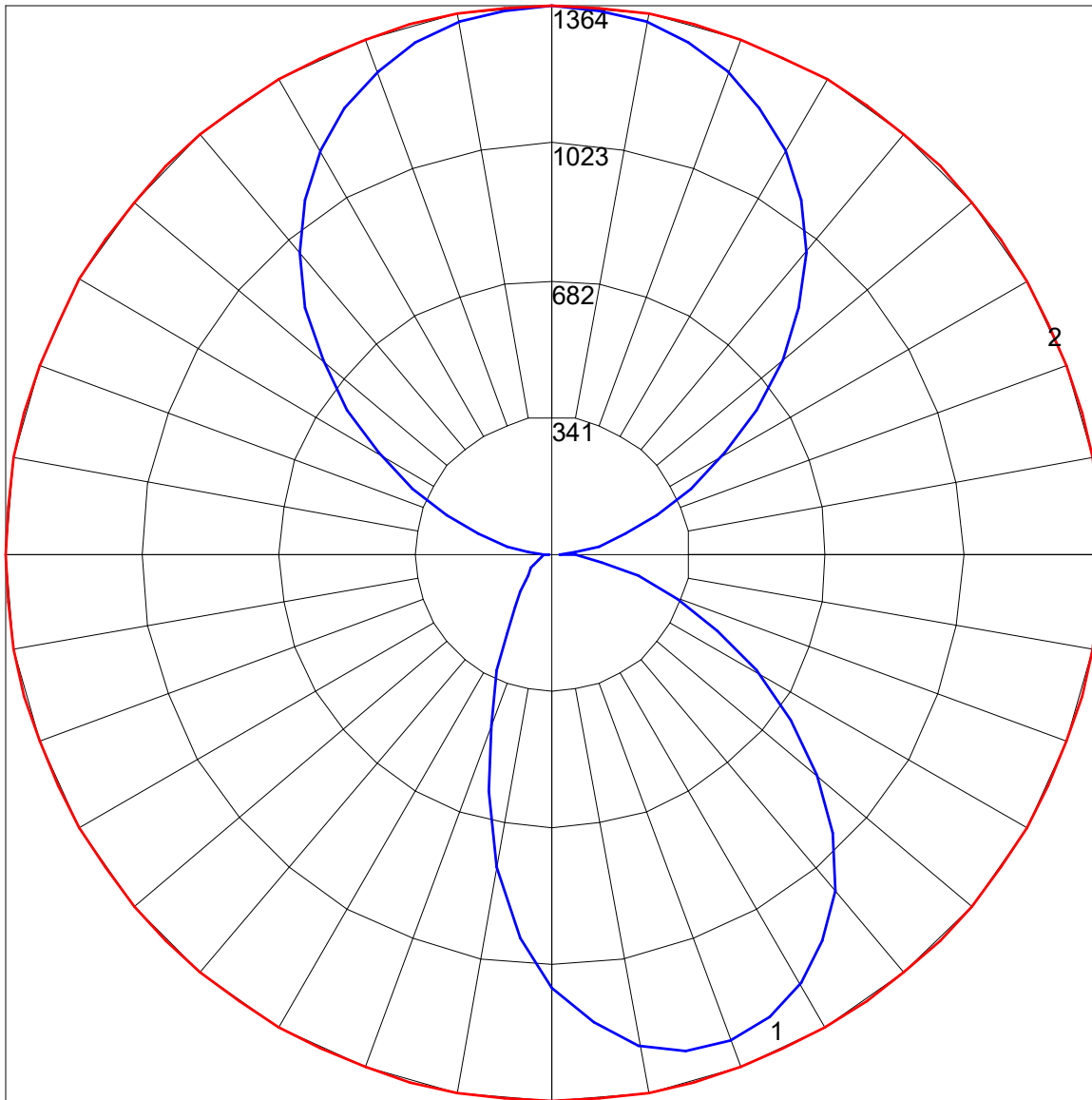
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	40
1	96	92	88	85	87	84	80	78	69	66	64	55	53	52	42	41	40	34
2	87	80	74	69	79	73	68	64	60	57	54	48	46	44	37	36	34	29
3	80	71	64	58	72	65	59	54	53	49	45	43	40	37	33	31	29	25
4	73	63	55	49	66	57	51	46	47	43	39	38	35	32	30	27	25	22
5	67	56	48	42	61	51	44	39	43	37	33	34	31	28	27	24	22	19
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	22	20	17
7	57	45	37	32	52	42	35	30	35	29	26	28	24	22	22	20	18	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13
9	49	37	30	25	45	35	28	24	29	24	20	24	20	17	19	16	14	12
10	46	34	27	23	42	32	25	21	27	22	18	22	18	16	18	15	13	11

POLAR GRAPH



Maximum Candela = 1364 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)