

IES Report

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

707-Z2-4-48-XX-XX-X-0-Z-HO-35-S4-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	123	127	129	129
Total Lumens, 4' rail length (1219mm)	4836	4988	5090	5090
Lumens per foot (305mm)	1209	1247	1273	1273
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_S4.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911531 (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-S4-AL

[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board, round diffuse 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	5090
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	39.55
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.11 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	37568	36620	35803
55	38073	36205	34698
65	40100	36233	32795
75	47421	39116	29131
85	94606	67199	24211

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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	1530.452	1530.452	1530.452	1530.452	1530.452	1530.452	1530.452	1530.452	1530.452	1530.452
5	1526.224	1526.293	1526.137	1526.137	1526.067	1526.067	1525.997	1525.928	1525.928	1526.224
10	1509.728	1509.728	1509.815	1509.589	1509.589	1509.363	1509.085	1508.858	1508.632	1508.354
15	1482.167	1482.167	1481.941	1481.732	1481.436	1480.931	1480.340	1480.061	1479.470	1478.965
20	1442.199	1442.356	1441.990	1441.764	1440.964	1440.233	1439.363	1438.406	1437.397	1436.300
25	1391.304	1391.147	1390.712	1390.138	1388.816	1387.876	1386.554	1385.023	1383.491	1381.960
30	1329.169	1329.029	1328.438	1327.568	1326.176	1324.575	1322.678	1320.556	1318.294	1316.258
35	1256.976	1256.976	1255.949	1254.784	1252.957	1250.851	1248.293	1245.736	1242.899	1240.046
40	1176.170	1175.735	1174.709	1173.178	1170.846	1168.219	1165.017	1161.728	1158.005	1154.368
45	1086.908	1086.473	1085.151	1083.046	1080.122	1076.555	1072.675	1068.377	1063.784	1059.486
50	991.957	991.365	989.695	986.998	983.344	978.750	973.652	968.327	962.342	957.087
55	893.507	892.916	890.723	887.522	882.998	877.308	870.887	864.188	856.967	849.677
60	793.440	792.709	790.012	785.784	780.390	773.169	765.374	756.761	747.643	738.456
65	693.390	692.224	689.371	684.342	677.713	669.395	659.773	649.264	637.901	626.522
70	595.672	594.506	590.852	585.684	578.237	568.615	557.531	545.125	531.570	517.493
75	502.181	501.016	497.135	491.167	482.711	472.271	460.021	446.014	430.633	414.224
80	414.520	413.354	409.196	402.845	393.953	382.643	369.524	354.647	337.734	319.777
85	337.369	336.046	331.748	325.397	316.210	304.761	291.119	275.668	258.233	239.633
90	266.046	264.880	260.791	254.440	245.549	234.100	221.050	205.877	188.947	170.868
95	204.485	203.319	199.682	193.697	185.519	174.800	162.620	148.631	133.319	116.911
100	152.998	151.989	148.770	143.306	135.929	126.742	116.093	103.930	90.724	77.012
105	111.290	110.420	107.497	102.973	96.779	89.192	80.301	70.383	59.804	49.155
110	78.613	77.882	75.551	71.984	66.955	60.900	54.184	46.388	38.576	30.781
115	53.818	53.244	51.487	48.720	44.996	40.542	35.583	30.119	24.725	19.401
120	35.879	35.513	34.208	32.381	29.754	26.552	23.194	19.610	16.182	12.911
125	23.768	23.560	22.690	21.506	19.836	17.800	15.677	13.485	11.519	9.779
130	16.339	16.182	15.608	14.807	13.937	12.615	11.588	10.353	9.257	8.387
135	12.110	11.954	11.815	11.310	10.875	10.283	9.692	9.048	8.526	7.952
140	10.353	10.214	10.057	9.918	9.622	9.344	8.822	8.456	8.091	7.656
145	9.483	9.483	9.483	9.344	9.118	8.822	8.387	8.091	7.813	7.586
150	9.048	8.978	8.891	8.891	8.526	8.387	8.091	7.882	7.813	7.656
155	8.613	8.613	8.613	8.387	8.161	8.091	7.952	7.952	7.813	0.000
160	8.456	8.317	8.248	8.091	8.021	7.952	7.952	7.882	7.656	0.000
165	8.021	8.091	7.952	7.882	7.882	7.882	7.882	7.813	0.000	0.000
170	7.882	7.882	7.882	7.882	7.882	7.882	7.813	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	1530.452	1530.452	1530.452	1530.452	1530.452	1530.452	1530.452	1530.452	1530.452
5	1525.997	1525.858	1525.702	1525.702	1525.702	1525.702	1525.632	1525.702	1525.928
10	1508.128	1507.832	1507.762	1507.623	1507.327	1507.258	1507.327	1506.823	1507.101
15	1478.304	1477.643	1477.138	1476.703	1476.268	1475.816	1475.677	1475.607	1475.607
20	1435.274	1434.247	1433.308	1432.577	1431.707	1430.819	1430.541	1430.541	1430.106
25	1380.359	1378.828	1377.227	1375.905	1374.739	1374.026	1373.138	1373.069	1372.930
30	1314.065	1311.803	1309.907	1308.167	1306.636	1305.539	1304.513	1303.939	1303.782
35	1236.914	1234.443	1231.816	1229.397	1227.587	1226.195	1225.030	1224.299	1224.160
40	1150.645	1147.356	1144.224	1141.301	1139.039	1137.229	1135.768	1134.741	1134.741
45	1054.962	1050.664	1047.010	1043.739	1040.885	1038.780	1037.092	1036.066	1035.857
50	951.484	946.438	941.845	937.843	934.554	931.718	929.960	929.021	928.655
55	842.821	836.331	830.711	825.752	821.750	818.531	816.269	814.807	814.303
60	729.495	721.317	713.818	707.536	702.438	698.349	695.287	693.755	693.251

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CANDELA TABULATION - (Cont.)

65	614.916	604.128	594.575	586.189	579.333	574.009	570.146	567.745	567.083
70	503.417	489.271	476.221	464.180	454.627	447.197	441.786	438.515	437.419
75	397.242	380.173	363.399	347.287	333.715	322.700	314.540	310.085	308.485
80	300.829	281.723	261.957	241.964	224.112	208.278	196.620	189.904	187.572
85	219.362	198.517	177.132	155.051	134.485	115.292	98.675	89.053	86.339
90	151.171	130.970	110.333	88.897	69.217	50.251	33.043	18.896	10.510
95	99.319	81.606	64.032	46.528	31.285	18.079	8.021	2.767	2.332
100	62.640	48.650	35.444	23.403	13.937	7.082	3.358	2.627	0.000
105	38.367	28.362	19.610	12.180	7.221	4.159	3.289	0.000	0.000
110	23.403	16.843	11.449	7.360	5.098	4.089	3.567	0.000	0.000
115	14.651	10.788	7.882	5.916	4.959	0.000	0.000	0.000	0.000
120	10.283	8.091	6.629	5.759	0.000	0.000	0.000	0.000	0.000
125	8.248	7.221	6.490	0.000	0.000	0.000	0.000	0.000	0.000
130	7.656	6.995	6.421	0.000	0.000	0.000	0.000	0.000	0.000
135	7.447	6.925	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	7.360	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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	562.54	N.A.	11.10
0-30	1199.6	N.A.	23.60
0-40	1975.69	N.A.	38.80
0-60	3555.63	N.A.	69.90
0-80	4613.1	N.A.	90.60
0-90	4864.26	N.A.	95.60
10-90	4719.17	N.A.	92.70
20-40	1413.15	N.A.	27.80
20-50	2231.27	N.A.	43.80
40-70	2202.68	N.A.	43.30
60-80	1057.47	N.A.	20.80
70-80	434.73	N.A.	8.50
80-90	251.15	N.A.	4.90
90-110	180.66	N.A.	3.50
90-120	204.93	N.A.	4.00
90-130	214.96	N.A.	4.20
90-150	222.91	N.A.	4.40
90-180	225.82	N.A.	4.40
110-180	45.15	N.A.	0.90
0-180	5090.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	145.09
10-20	417.45
20-30	637.06
30-40	776.09
40-50	818.12
50-60	761.82
60-70	622.74
70-80	434.73
80-90	251.15
90-100	123.63
100-110	57.03
110-120	24.27
120-130	10.03
130-140	4.97
140-150	2.98
150-160	1.86
160-170	0.95
170-180	0.10

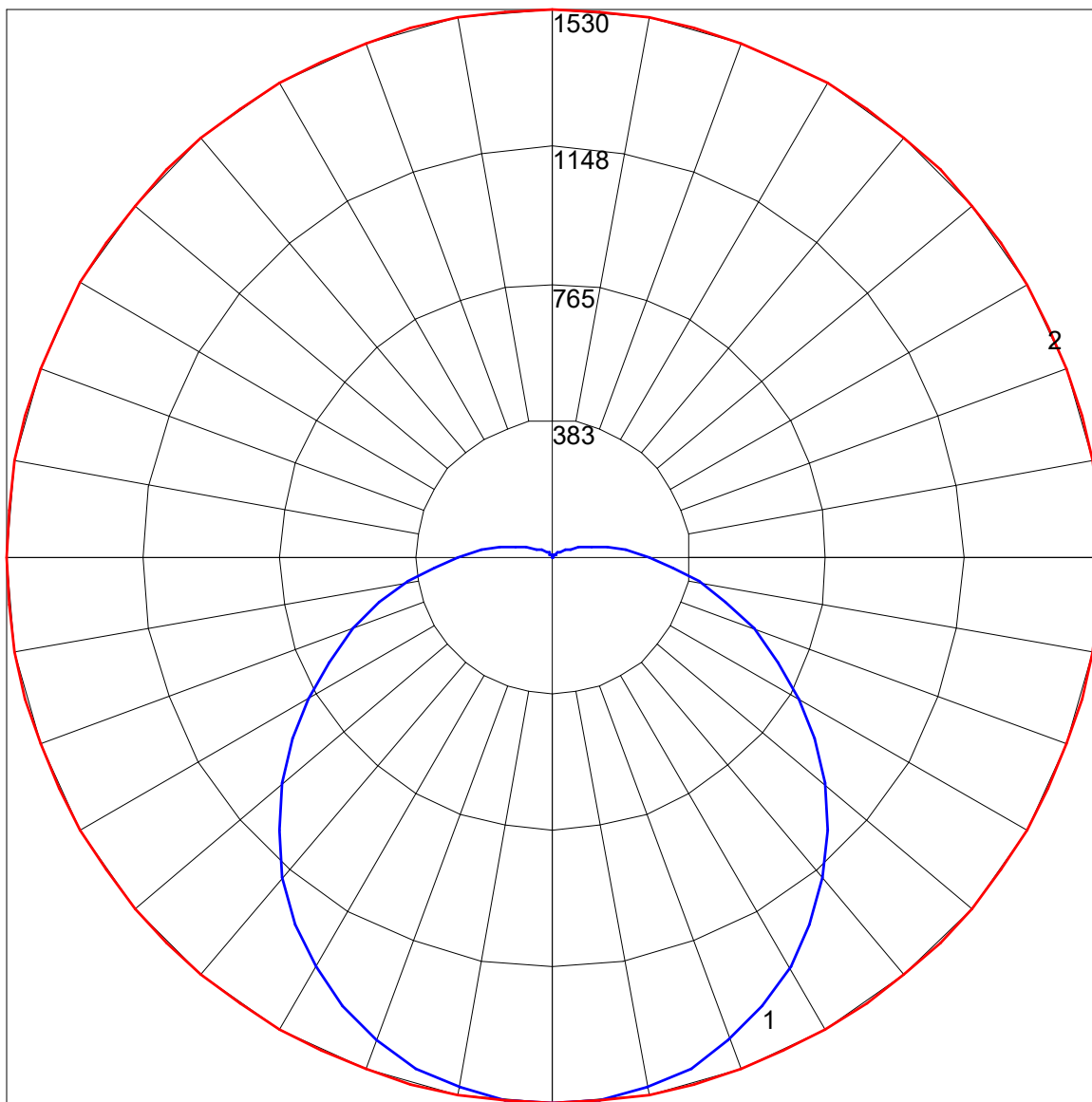
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	106	101	96	91	103	98	93	89	93	89	86	88	85	82	84	81	79	77
2	96	87	79	73	93	85	78	72	80	75	70	76	72	67	73	69	65	63
3	87	76	67	60	84	74	66	59	70	63	58	67	61	56	64	59	55	52
4	80	67	58	51	77	65	57	50	62	55	49	59	53	48	57	51	47	44
5	73	60	50	43	71	58	49	43	56	48	42	53	46	41	51	45	40	38
6	67	54	44	38	65	52	44	37	50	42	37	48	41	36	46	40	35	33
7	62	48	39	33	60	47	39	33	45	38	32	44	37	32	42	36	31	29
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	38	32	28	26
9	54	40	32	26	53	40	32	26	38	31	26	37	30	25	35	30	25	23
10	51	37	29	24	49	37	29	24	35	28	23	34	28	23	33	27	23	21

POLAR GRAPH



Maximum Candela = 1530.452 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)