

IES Report

ZipTwo® | 707 | 85° Asymmetric | 80 CRI | SO

707-Z2-4-48-XX-XX-X-0-Z-SO-35-A1-X-BL-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	49	50	51	52
Total Lumens, 4' rail length (1219mm)	1256	1296	1323	1349
Lumens per foot (305mm)	314	324	331	337
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	85	85	85	85

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_A1-BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L071704229 (SOURCE REPORT FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
[ISSUEDATE] 11/1/2017
[MANUFAC] Vode Lighting
[LUMCAT] 707-Z2-48-Z-SO-35-A1-BL
[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board,
[MORE] 85° black asymmetric lens, standard output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1319
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	50
Total Luminaire Watts	26.19
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.10
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.06 ft
Luminous Width (90-270)	4.02 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	48980	40992	13666
55	43231	32926	9413
65	36345	24963	6554
75	29708	18735	4911
85	28974	15640	3260

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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	493.028	493.028	493.028	493.028	493.028	493.028	493.028	493.028	493.028	493.028
5	632.185	631.501	629.837	627.288	623.465	618.662	613.175	606.225	598.968	590.838
10	786.022	785.042	781.608	776.121	768.782	759.082	746.928	733.110	717.534	699.410
15	904.387	902.912	898.995	892.045	882.439	869.695	853.931	835.700	814.436	790.624
20	977.677	976.603	972.096	965.039	955.045	941.616	925.155	904.482	879.985	851.771
25	1004.723	1003.543	1000.121	993.454	983.554	970.526	954.455	933.687	908.694	879.596
30	992.958	991.589	988.061	982.090	972.875	960.437	944.661	924.471	899.785	870.781
35	946.124	944.956	941.616	936.035	926.819	914.866	899.384	879.501	854.709	826.201
40	871.465	870.580	867.442	861.565	852.656	840.703	824.820	805.031	779.355	750.067
45	776.818	775.638	772.109	766.422	757.017	744.084	726.738	705.286	679.810	650.121
50	668.635	667.361	663.738	657.567	647.962	633.849	615.335	593.186	567.025	537.042
55	556.158	555.072	551.449	545.077	535.083	520.982	502.845	479.729	452.683	423.585
60	445.438	444.353	440.931	434.559	425.248	411.726	394.675	373.907	348.914	322.659
65	344.513	343.533	340.489	335.002	326.187	314.140	298.953	280.038	258.573	236.625
70	251.812	250.939	248.390	243.788	236.531	226.631	214.382	199.302	182.546	165.589
75	172.457	171.761	169.802	166.085	160.492	153.152	143.936	132.962	120.808	108.761
80	107.191	106.601	105.044	102.294	98.471	93.185	87.013	79.662	71.921	64.180
85	56.640	56.239	55.071	53.301	50.752	47.424	43.601	39.388	34.881	30.574
90	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>	<u>95</u>
0	493.028	493.028	493.028	493.028	493.028	493.028	493.028	493.028	493.028	493.028
5	581.433	571.828	561.350	550.269	539.107	527.743	515.389	503.541	491.871	479.139
10	679.420	658.546	635.713	611.417	587.310	561.350	535.083	509.607	484.130	457.392
15	761.619	731.742	698.135	661.980	625.329	586.720	546.847	508.143	469.923	430.535
20	818.849	783.284	742.031	696.861	650.027	601.127	549.196	497.169	447.692	393.306
25	844.715	804.642	760.545	709.699	655.797	598.673	537.443	477.475	417.413	360.868
30	835.900	795.037	749.182	697.545	640.032	574.471	509.323	443.668	379.582	316.783
35	792.582	750.940	705.581	652.080	594.661	529.796	463.162	391.253	330.896	270.338
40	716.354	676.671	631.501	580.548	525.584	463.858	391.642	338.235	273.866	219.869
45	615.335	577.020	534.304	487.175	437.202	380.172	325.987	270.338	216.742	171.371
50	501.972	466.301	427.302	381.836	344.312	298.162	251.033	206.358	165.294	128.750
55	389.577	360.773	326.777	291.602	257.016	221.734	184.694	151.382	121.103	98.176
60	294.540	267.294	239.280	211.444	184.894	158.639	132.372	108.666	87.108	68.298
65	213.698	191.951	170.298	150.013	130.024	111.215	93.090	76.818	62.127	49.182
70	148.350	131.782	116.596	101.999	88.476	75.839	63.590	53.006	43.306	34.881
75	96.807	85.928	75.355	65.750	57.029	48.994	41.253	34.586	28.509	23.222
80	56.534	49.879	43.306	37.630	32.533	27.824	23.423	19.600	16.166	13.228
85	26.550	22.833	19.600	16.555	13.912	11.753	9.605	7.835	6.372	5.192
90	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>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0	493.028	493.028	493.028	493.028	493.028	493.028	493.028	493.028	493.028	493.028
5	467.669	456.117	445.332	434.559	424.564	415.348	406.734	398.297	391.347	384.680
10	432.989	408.882	386.839	366.071	345.882	327.946	311.095	296.003	282.976	271.317
15	395.265	360.584	329.326	300.711	274.161	251.128	230.159	212.034	197.143	184.009
20	354.118	311.591	274.350	240.260	211.739	186.464	165.696	147.760	133.352	121.304
25	309.726	263.872	221.439	187.927	159.713	136.491	117.776	101.810	90.435	80.842
30	263.081	216.542	176.268	144.526	118.460	99.262	83.190	71.142	62.316	55.460
35	216.353	172.740	136.396	108.855	86.907	71.425	59.767	50.952	44.392	39.683

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CANDELA TABULATION - (Cont.)

40	172.846	133.552	102.884	81.125	63.980	52.227	43.695	37.335	32.828	29.594
45	132.479	101.610	77.207	60.558	47.719	39.294	33.123	28.615	25.276	22.927
50	99.840	74.859	58.009	45.760	36.745	30.373	25.972	22.538	20.084	18.325
55	72.806	56.050	43.990	35.270	28.615	24.107	20.579	18.125	16.166	14.797
60	53.690	42.433	33.512	27.341	22.739	19.305	16.662	14.597	13.027	11.859
65	39.294	31.648	25.476	21.063	17.535	15.092	13.133	11.564	10.384	9.310
70	28.320	23.128	18.915	15.682	13.228	11.470	9.900	8.720	7.941	7.257
75	19.010	15.682	12.933	10.880	9.310	8.036	7.056	6.171	5.581	5.003
80	10.880	9.110	7.646	6.561	5.581	4.897	4.307	3.823	3.434	3.139
85	4.307	3.729	3.233	2.749	2.454	2.254	2.053	1.864	1.664	1.569
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	493.028	493.028	493.028	493.028	493.028	493.028	493.028
5	378.804	374.001	369.883	366.756	364.396	363.121	362.732
10	261.323	253.086	246.231	241.133	237.416	235.257	234.572
15	172.941	164.221	156.975	151.583	147.960	145.801	145.010
20	111.604	104.159	98.860	94.164	91.320	89.562	88.972
25	73.490	68.003	63.685	60.652	58.599	57.419	57.029
30	50.174	46.350	43.412	41.347	39.978	39.200	38.999
35	36.061	33.418	31.553	30.078	29.205	28.615	28.414
40	27.046	25.276	23.907	22.927	22.243	21.854	21.747
45	21.169	19.789	18.809	18.030	17.641	17.240	17.240
50	16.957	15.871	15.092	14.502	14.113	13.912	13.912
55	13.617	12.838	12.154	11.658	11.363	11.175	11.175
60	10.880	10.290	9.700	9.310	9.015	8.815	8.815
65	8.520	7.941	7.540	7.151	6.962	6.856	6.856
70	6.466	6.077	5.688	5.393	5.192	5.098	5.098
75	4.602	4.307	4.024	3.823	3.729	3.528	3.528
80	2.844	2.643	2.549	2.348	2.348	2.348	2.348
85	1.475	1.369	1.369	1.274	1.180	1.180	1.180
90	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	188.29	N.A.	14.30
0-30	410.08	N.A.	31.10
0-40	674.05	N.A.	51.10
0-60	1114.89	N.A.	84.50
0-80	1300.22	N.A.	98.60
0-90	1319.02	N.A.	100.00
10-90	1271.74	N.A.	96.40
20-40	485.76	N.A.	36.80
20-50	735.29	N.A.	55.70
40-70	563.27	N.A.	42.70
60-80	185.33	N.A.	14.10
70-80	62.90	N.A.	4.80
80-90	18.80	N.A.	1.40
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1319.02	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	47.28
10-20	141.01
20-30	221.79
30-40	263.97
40-50	249.53
50-60	191.31
60-70	122.43
70-80	62.90
80-90	18.80
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

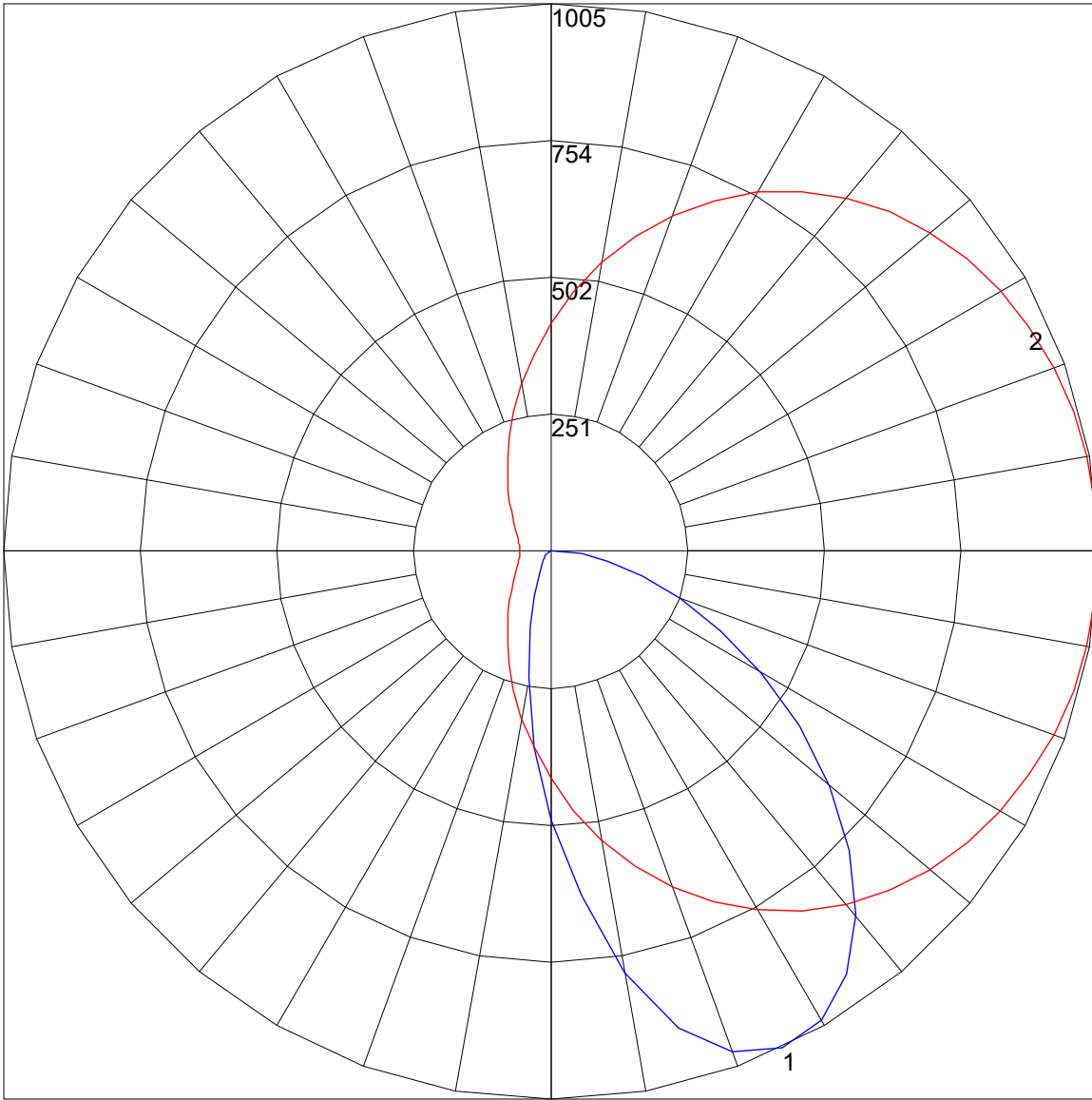
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73
3	92	82	75	68	90	81	74	68	78	72	67	75	70	65	73	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	53	49	47
6	72	60	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	49	41	36	61	49	41	35	48	40	35	46	40	35	45	39	35	33
9	59	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	41	34	29	41	34	29	40	33	29	39	33	29	27

POLAR GRAPH



Maximum Candela = 1004.723 Located At Horizontal Angle = 0, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)