

IES Report

ZipTwo® | 707 | 85° Asymmetric | 90 CRI | LO

707-Z2-4-48-XX-XX-X-0-Z-LO-359-A1-X-BL-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	34	35	36	36
Total Lumens, 4' rail length (1219mm)	542	559	570	581
Lumens per foot (305mm)	135	140	143	145
Input Power (W), 4' rail length (1219mm)	16.3	16.3	16.3	16.3
Watts per foot (305mm)	4.1	4.1	4.1	4.1
CRI	95	95	95	95

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_LO_359_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-LO-359-A1-BL
[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, zipper board,
[MORE] 85° black asymmetric lens, low output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	570
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	35
Total Luminaire Watts	16.25
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	21169	17717	5907
55	18684	14231	4069
65	15708	10789	2833
75	12840	8098	2123
85	12523	6760	1409

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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	213.088	213.088	213.088	213.088	213.088	213.088	213.088	213.088	213.088	213.088
5	273.232	272.937	272.218	271.116	269.464	267.388	265.016	262.012	258.876	255.362
10	339.721	339.298	337.814	335.442	332.270	328.078	322.825	316.853	310.121	302.287
15	390.879	390.242	388.549	385.545	381.393	375.885	369.072	361.192	352.002	341.710
20	422.555	422.091	420.143	417.093	412.774	406.970	399.855	390.920	380.332	368.138
25	434.245	433.735	432.256	429.374	425.095	419.465	412.519	403.543	392.741	380.164
30	429.160	428.568	427.043	424.463	420.480	415.104	408.286	399.559	388.890	376.354
35	408.918	408.413	406.970	404.557	400.574	395.408	388.717	380.123	369.408	357.087
40	376.650	376.268	374.911	372.371	368.521	363.355	356.490	347.937	336.840	324.181
45	335.743	335.233	333.708	331.250	327.185	321.596	314.099	304.827	293.816	280.984
50	288.986	288.436	286.870	284.203	280.051	273.952	265.950	256.377	245.070	232.111
55	240.373	239.904	238.338	235.584	231.265	225.170	217.331	207.340	195.651	183.075
60	192.520	192.051	190.572	187.818	183.794	177.949	170.580	161.604	150.802	139.454
65	148.900	148.476	147.160	144.789	140.979	135.772	129.208	121.033	111.756	102.270
70	108.834	108.457	107.355	105.366	102.229	97.951	92.657	86.139	78.897	71.568
75	74.536	74.236	73.389	71.782	69.365	66.193	62.210	57.467	52.214	47.007
80	46.328	46.073	45.400	44.212	42.559	40.275	37.607	34.430	31.084	27.739
85	24.480	24.307	23.802	23.037	21.935	20.497	18.844	17.024	15.076	13.214
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	213.088	213.088	213.088	213.088	213.088	213.088	213.088	213.088	213.088	213.088
5	251.297	247.146	242.617	237.828	233.004	228.092	222.753	217.632	212.588	207.085
10	293.648	284.626	274.757	264.256	253.837	242.617	231.265	220.254	209.243	197.686
15	329.174	316.261	301.736	286.110	270.269	253.582	236.349	219.621	203.102	186.079
20	353.909	338.538	320.708	301.186	280.944	259.809	237.364	214.878	193.494	169.988
25	365.089	347.769	328.710	306.734	283.438	258.748	232.285	206.366	180.407	155.968
30	361.279	343.618	323.799	301.481	276.624	248.288	220.131	191.755	164.057	136.915
35	342.557	324.559	304.954	281.831	257.014	228.980	200.180	169.101	143.014	116.841
40	309.611	292.459	272.937	250.915	227.159	200.481	169.269	146.186	118.366	95.028
45	265.950	249.390	230.928	210.559	188.960	164.312	140.893	116.841	93.677	74.067
50	216.954	201.537	184.681	165.031	148.813	128.867	108.497	89.189	71.441	55.646
55	168.376	155.927	141.234	126.031	111.083	95.834	79.825	65.428	52.341	42.432
60	127.301	115.525	103.418	91.387	79.912	68.564	57.212	46.966	37.648	29.519
65	92.361	82.962	73.603	64.836	56.197	48.067	40.234	33.201	26.851	21.257
70	64.117	56.957	50.393	44.084	38.240	32.778	27.484	22.909	18.717	15.076
75	41.840	37.138	32.569	28.417	24.648	21.175	17.830	14.948	12.322	10.037
80	24.434	21.558	18.717	16.264	14.061	12.026	10.123	8.471	6.987	5.717
85	11.475	9.868	8.471	7.155	6.013	5.080	4.151	3.386	2.754	2.244
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	213.088	213.088	213.088	213.088	213.088	213.088	213.088	213.088	213.088	213.088
5	202.128	197.135	192.474	187.818	183.498	179.515	175.792	172.145	169.141	166.260
10	187.139	176.720	167.193	158.217	149.491	141.739	134.456	127.933	122.303	117.264
15	170.835	155.846	142.336	129.968	118.493	108.538	99.475	91.642	85.206	79.529
20	153.051	134.671	118.575	103.841	91.514	80.590	71.614	63.862	57.635	52.428
25	133.865	114.046	95.707	81.223	69.028	58.992	50.903	44.003	39.086	34.940
30	113.704	93.590	76.184	62.465	51.199	42.901	35.955	30.748	26.933	23.970
35	93.508	74.659	58.951	47.047	37.561	30.870	25.831	22.022	19.186	17.151

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CANDELA TABULATION - (Cont.)

40	74.705	57.722	44.467	35.062	27.652	22.573	18.885	16.136	14.188	12.791
45	57.258	43.916	33.369	26.173	20.624	16.983	14.316	12.367	10.924	9.909
50	43.151	32.354	25.072	19.778	15.881	13.127	11.225	9.741	8.680	7.920
55	31.467	24.225	19.013	15.244	12.367	10.419	8.894	7.834	6.987	6.395
60	23.205	18.340	14.484	11.817	9.828	8.344	7.201	6.309	5.630	5.125
65	16.983	13.678	11.011	9.103	7.579	6.523	5.676	4.998	4.488	4.024
70	12.240	9.996	8.175	6.778	5.717	4.957	4.279	3.769	3.432	3.136
75	8.216	6.778	5.590	4.702	4.024	3.473	3.050	2.667	2.412	2.162
80	4.702	3.937	3.305	2.836	2.412	2.116	1.861	1.652	1.484	1.357
85	1.861	1.612	1.397	1.188	1.061	0.974	0.887	0.806	0.719	0.678
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	213.088	213.088	213.088	213.088	213.088	213.088	213.088
5	163.720	161.644	159.865	158.513	157.493	156.942	156.774
10	112.945	109.385	106.422	104.218	102.612	101.679	101.383
15	74.746	70.977	67.845	65.515	63.949	63.016	62.674
20	48.236	45.018	42.728	40.698	39.469	38.709	38.454
25	31.763	29.391	27.525	26.214	25.327	24.817	24.648
30	21.685	20.033	18.763	17.870	17.279	16.942	16.855
35	15.586	14.443	13.637	13.000	12.622	12.367	12.281
40	11.689	10.924	10.333	9.909	9.613	9.445	9.399
45	9.149	8.553	8.129	7.793	7.624	7.451	7.451
50	7.329	6.859	6.523	6.268	6.100	6.013	6.013
55	5.885	5.549	5.253	5.039	4.911	4.830	4.830
60	4.702	4.447	4.192	4.024	3.896	3.810	3.810
65	3.682	3.432	3.259	3.091	3.009	2.963	2.963
70	2.795	2.626	2.458	2.331	2.244	2.203	2.203
75	1.989	1.861	1.739	1.652	1.612	1.525	1.525
80	1.229	1.142	1.102	1.015	1.015	1.015	1.015
85	0.637	0.592	0.592	0.551	0.510	0.510	0.510
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	81.38	N.A.	14.30
0-30	177.24	N.A.	31.10
0-40	291.32	N.A.	51.10
0-60	481.86	N.A.	84.50
0-80	561.96	N.A.	98.60
0-90	570.08	N.A.	100.00
10-90	549.65	N.A.	96.40
20-40	209.95	N.A.	36.80
20-50	317.79	N.A.	55.70
40-70	243.45	N.A.	42.70
60-80	80.10	N.A.	14.10
70-80	27.19	N.A.	4.80
80-90	8.12	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	570.08	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	20.44
10-20	60.94
20-30	95.86
30-40	114.09
40-50	107.85
50-60	82.69
60-70	52.91
70-80	27.19
80-90	8.12
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

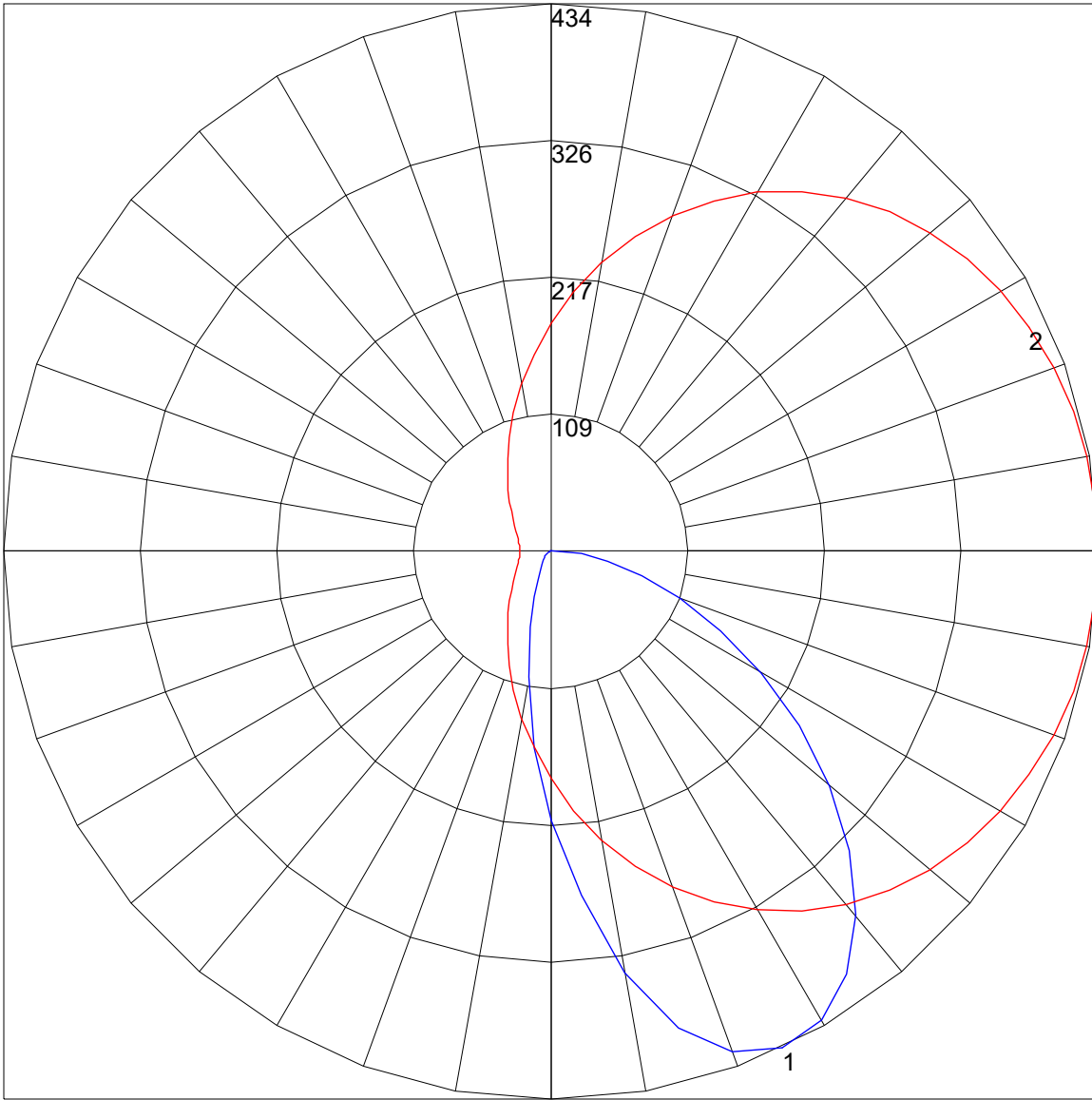
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	66	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	38	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 = 434.245 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.)