

IES Report

ZipTwo® | 707 | Diffuse with MicroBaffle | 90 CRI | LO

707-Z2-4-48-XX-XX-X-0-Z-LO-359-D4-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	94	97	99	101
Total Lumens, 4' rail length (1219mm)	1514	1562	1594	1626
Lumens per foot (305mm)	379	391	399	406
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_D4.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L121800102 (SOURCE REPORT FOR REFERENCE)
 [TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
 [ISSUEDATE] 12/14/2018
 [MANUFAC] Vode Lighting
 [LUMCAT] 707-Z2-48-LO-359-D4-AL
 [LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, zipper board,
 [MORE] diffuse lens w/microbaffle, low output
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1594
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	16.25
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.10 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	15518	13634	11651
55	13535	11374	9333
65	11461	9404	7595
75	9715	7924	6268
85	10636	8376	5584

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	701.237	701.237	701.237	701.237	701.237	701.237	701.237	701.237	701.237	701.237
5	697.789	698.220	698.220	697.789	697.789	697.789	697.789	697.358	697.358	697.358
10	687.876	687.445	687.445	687.445	687.014	686.583	686.152	685.721	685.290	684.428
15	669.774	669.774	669.343	668.912	668.050	667.188	666.326	665.033	663.740	662.447
20	644.345	643.914	643.483	642.621	641.328	639.604	637.880	635.294	633.139	630.553
25	610.727	610.296	609.434	608.141	605.986	603.831	600.814	596.935	593.056	589.177
30	569.351	568.920	568.058	565.903	563.317	559.869	555.559	550.387	545.215	539.181
35	521.079	520.648	518.924	516.769	513.321	509.011	503.408	496.512	489.616	482.289
40	466.773	466.342	464.187	461.601	457.722	452.119	445.654	437.896	429.707	420.656
45	408.157	407.726	406.002	402.554	398.244	392.641	385.314	377.125	368.074	358.592
50	348.248	347.817	345.662	342.645	338.335	332.301	324.974	316.785	307.734	298.683
55	288.770	288.339	286.615	283.598	279.288	273.685	267.220	259.462	250.842	242.653
60	231.878	231.447	230.154	227.568	223.689	218.948	212.914	206.449	199.553	192.226
65	180.158	179.727	178.434	176.279	173.262	169.383	164.211	159.039	153.436	147.833
70	133.610	133.179	132.317	130.593	128.438	125.421	121.973	117.663	113.353	109.474
75	93.527	93.527	92.665	91.372	89.648	87.924	85.338	82.321	79.304	76.287
80	60.771	60.771	60.340	59.478	58.185	56.892	55.168	53.444	51.289	49.565
85	34.480	34.480	34.049	33.618	33.187	31.894	31.032	29.739	28.446	27.153
90	14.654	14.654	14.223	14.223	13.361	12.930	12.499	11.637	10.775	9.482
95	9.913	9.913	9.913	9.482	9.482	9.051	8.620	8.189	7.327	6.896
100	9.482	9.482	9.482	9.482	9.051	8.620	8.189	7.758	6.896	6.465
105	9.482	9.482	9.051	9.051	8.620	8.189	7.758	7.327	6.896	6.465
110	9.051	9.051	9.051	8.620	0.000	0.000	0.000	0.000	0.000	0.000
115	9.051	9.051	8.620	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	8.620	8.620	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	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	0.000
150	0.000	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	0.000
160	0.000	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	0.000
170	0.000	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	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	701.237	701.237	701.237	701.237	701.237	701.237	701.237	701.237	701.237
5	697.358	696.927	696.927	696.927	696.927	696.927	696.927	696.927	696.927
10	683.997	683.566	683.135	682.704	682.273	681.842	681.842	681.411	681.411
15	661.154	659.861	658.568	657.275	655.982	655.120	654.689	654.258	654.258
20	627.967	625.381	622.795	620.640	618.485	617.192	615.468	615.037	614.606
25	584.867	580.557	576.678	573.230	569.782	567.196	565.041	563.748	563.748
30	533.147	527.113	521.510	515.907	511.597	507.718	505.132	503.408	502.977
35	474.531	466.773	459.446	452.981	447.378	443.068	439.620	437.465	437.034
40	411.605	402.985	394.796	387.469	381.435	376.263	372.815	370.660	369.798
45	349.110	340.059	331.439	324.112	317.647	312.906	309.027	306.872	306.441
50	289.201	280.581	272.392	265.496	259.893	255.152	251.704	249.549	249.118
55	234.464	226.706	219.379	213.345	208.173	204.294	201.277	199.553	199.122
60	185.330	178.865	172.831	168.090	163.780	160.763	158.177	156.884	156.453

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CANDELA TABULATION - (Cont.)

65	142.230	137.489	132.748	128.869	125.421	122.835	121.111	119.818	119.387
70	105.164	101.716	98.268	95.251	92.665	90.510	89.217	87.924	87.924
75	73.701	71.115	68.529	66.374	64.650	62.926	61.633	60.771	60.340
80	47.410	45.686	43.962	42.238	40.945	39.652	38.790	37.928	37.928
85	25.860	24.998	23.705	22.412	21.119	20.257	19.395	18.533	18.102
90	8.620	7.758	6.896	5.603	4.741	3.879	3.017	2.155	1.724
95	6.034	5.603	4.741	3.879	3.017	2.155	1.724	0.862	0.862
100	6.034	5.172	4.310	0.000	0.000	0.000	0.000	0.000	0.000
105	5.603	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	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	252.55	N.A.	15.80
0-30	522.78	N.A.	32.80
0-40	822.91	N.A.	51.60
0-60	1318.5	N.A.	82.70
0-80	1550.14	N.A.	97.30
0-90	1580.83	N.A.	99.20
10-90	1514.67	N.A.	95.00
20-40	570.36	N.A.	35.80
20-50	847.06	N.A.	53.10
40-70	644.47	N.A.	40.40
60-80	231.63	N.A.	14.50
70-80	82.76	N.A.	5.20
80-90	30.69	N.A.	1.90
90-110	11.67	N.A.	0.70
90-120	12.90	N.A.	0.80
90-130	13.06	N.A.	0.80
90-150	13.06	N.A.	0.80
90-180	13.06	N.A.	0.80
110-180	1.39	N.A.	0.10
0-180	1593.89	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	66.16
10-20	186.39
20-30	270.23
30-40	300.13
40-50	276.70
50-60	218.90
60-70	148.88
70-80	82.76
80-90	30.69
90-100	7.35
100-110	4.32
110-120	1.23
120-130	0.17
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

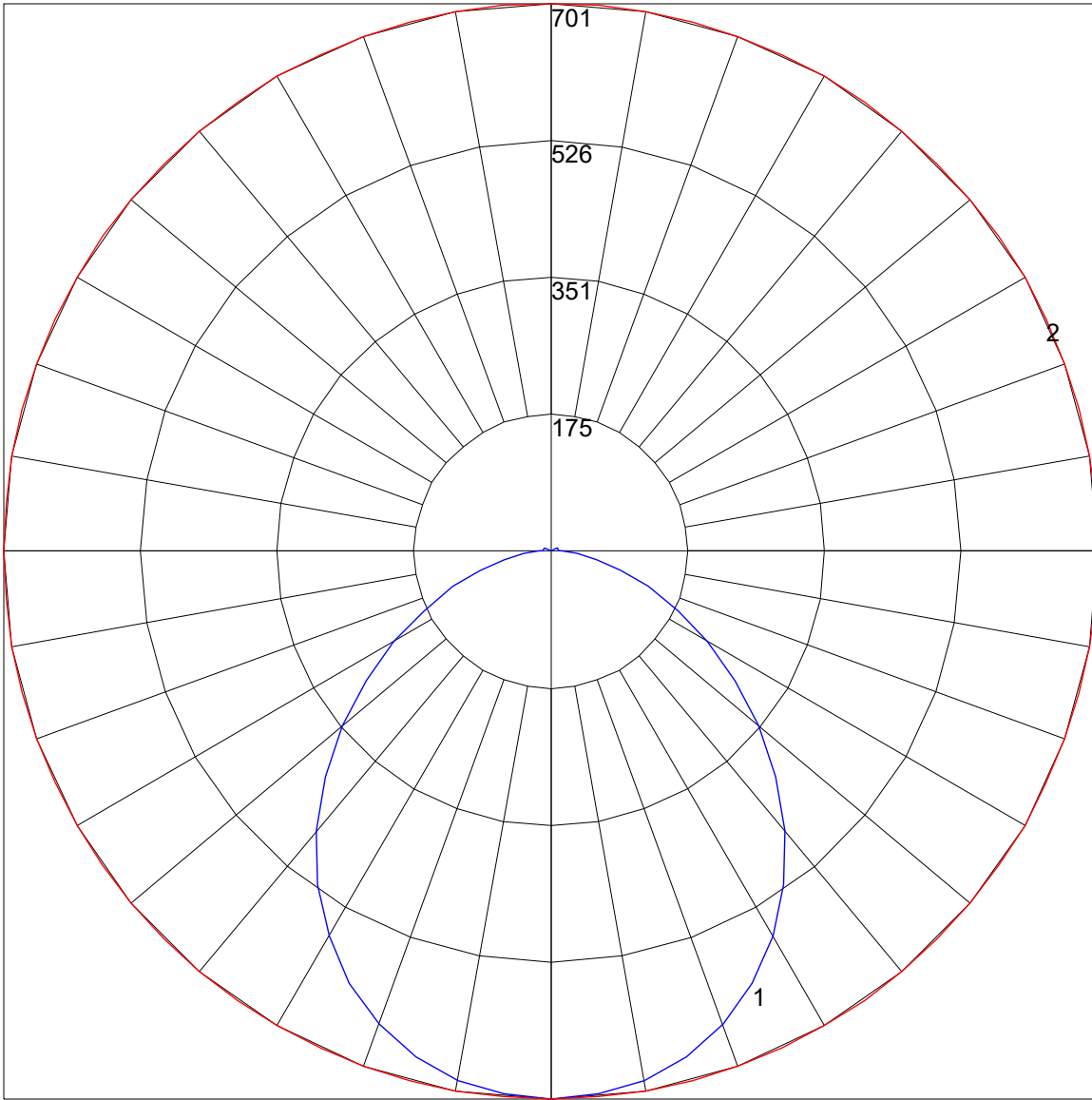
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	101	101	99
1	109	105	101	97	107	102	99	96	98	95	92	94	92	89	90	88	87	85
2	100	92	86	81	97	90	85	80	87	82	78	83	79	76	80	77	74	72
3	92	82	74	68	89	80	73	68	77	71	66	75	69	65	72	68	64	62
4	85	73	65	59	82	72	64	58	69	63	57	67	61	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	53	49	47
6	73	60	51	45	71	59	51	45	57	50	45	55	49	44	54	48	44	42
7	67	55	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37
8	63	50	42	36	61	49	42	36	48	41	36	47	40	36	45	40	35	34
9	59	46	38	33	58	46	38	33	44	37	33	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	29	28

POLAR GRAPH



Maximum Candela = 701.237 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)