

IES Report

ZipTwo® | 707 | Square 3554, Side Diffuse | 80 CRI | LO

707-Z2-4-48-XX-XX-X-0-Z-LO-35-J9-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	115	119	121	121
Total Lumens, 4' rail length (1219mm)	1708	1762	1798	1798
Lumens per foot (305mm)	427	440	449	449
Input Power (W), 4' rail length (1219mm)	14.9	14.9	14.9	14.9
Watts per foot (305mm)	3.8	3.8	3.8	3.8
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_LO_35_J9_WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011207 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 9/9/2020

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z2-48-Z-LO-35-J9-WH

[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board,

[MORE] square 3554, side diffuse lens, low output

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1798
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	14.89
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)	0.13 ft
Luminous Width (90-270)	3.99 ft
Luminous Height	0.17 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3250	2472	206
55	3706	2891	204
65	4008	3200	216
75	4208	3569	269
85	4419	3975	614

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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	11.530	11.530	11.530	11.530	11.530	11.530	11.530	11.530	11.530	11.530
5	24.940	24.940	24.772	24.383	23.896	23.287	22.510	21.657	20.636	19.494
10	51.052	50.901	50.367	49.520	48.204	46.574	44.677	42.444	39.869	37.143
15	79.344	79.031	78.103	76.601	74.315	71.589	68.359	64.542	60.262	55.738
20	109.342	108.907	107.520	105.258	102.028	98.037	93.276	87.806	81.484	74.971
25	140.604	139.971	138.052	135.012	130.639	125.239	118.871	111.482	103.194	94.389
30	172.057	171.303	168.826	164.865	159.320	152.540	144.374	135.036	124.752	113.889
35	201.376	200.378	197.391	192.891	186.841	178.478	168.629	157.424	145.296	132.240
40	230.156	228.943	225.562	220.046	212.268	202.519	192.137	178.936	164.302	149.211
45	255.826	254.637	250.722	244.429	235.457	224.738	212.071	195.443	181.760	164.790
50	277.368	276.051	271.655	264.799	255.415	243.380	229.378	213.678	195.541	178.501
55	294.043	292.558	288.063	280.964	271.046	258.378	243.890	226.803	207.913	189.051
60	304.935	303.497	299.123	292.071	281.642	268.929	253.982	236.356	216.810	196.197
65	310.816	309.378	304.813	297.714	287.552	274.984	259.817	242.289	222.865	198.778
70	311.837	310.404	306.147	299.123	289.693	277.124	262.438	244.986	225.637	202.229
75	308.920	307.609	303.671	297.227	287.987	275.929	261.783	244.789	225.637	203.319
80	303.282	302.087	298.393	292.245	283.272	272.165	258.599	242.312	224.083	201.544
85	296.229	295.133	291.514	285.725	277.582	266.696	253.663	238.276	220.702	199.091
90	288.596	287.529	284.194	278.655	270.756	260.420	248.072	233.125	215.940	197.217
95	280.819	279.699	276.416	271.191	263.291	253.640	241.756	227.314	210.708	193.621
100	272.942	271.921	268.737	263.511	256.122	246.541	234.604	220.968	203.928	188.860
105	264.776	263.825	260.640	255.583	248.339	238.861	227.627	213.945	197.728	182.219
110	255.971	254.980	251.940	246.981	239.615	230.422	219.437	206.190	191.725	175.317
115	245.862	244.841	241.727	236.797	229.645	220.823	209.908	197.049	183.506	167.852
120	234.146	233.195	230.231	225.347	218.614	209.786	199.503	187.862	173.977	158.984
125	220.626	219.681	216.862	212.292	205.703	197.705	188.175	176.384	163.038	148.822
130	205.169	204.270	201.521	197.438	191.557	183.802	174.539	163.647	150.986	135.836
135	189.126	188.343	185.768	181.639	175.873	168.560	159.807	148.358	134.038	119.260
140	169.923	169.169	166.785	163.015	157.888	151.078	140.580	127.600	115.078	102.950
145	149.159	148.480	146.438	143.080	138.417	129.375	118.216	107.520	97.237	87.197
150	127.380	126.823	125.019	122.102	115.223	105.357	96.750	88.340	81.119	74.652
155	104.870	104.359	102.898	99.035	90.016	82.917	76.670	72.245	67.361	61.648
160	82.116	81.728	80.388	72.587	66.729	61.793	59.241	56.080	51.388	45.460
165	57.565	57.200	52.217	47.693	44.411	43.419	41.737	38.773	34.545	30.897
170	33.936	31.674	27.637	25.717	25.938	25.769	24.725	23.165	21.634	20.126
175	15.364	11.983	12.012	12.957	13.444	13.247	12.911	12.522	11.890	11.159
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	11.530	11.530	11.530	11.530	11.530	11.530	11.530	11.530	11.530
5	18.305	17.087	15.875	14.633	13.468	12.493	11.890	11.496	11.327
10	34.104	30.920	27.567	24.041	20.491	16.942	13.955	11.791	11.084
15	50.686	45.385	40.014	34.278	28.635	22.707	17.162	12.470	10.794
20	67.727	60.262	52.629	44.631	36.807	28.565	20.834	13.636	10.405
25	84.987	74.994	65.099	54.717	44.463	34.179	24.383	14.877	9.918
30	101.976	89.749	77.302	64.368	52.043	39.573	27.567	16.217	9.332
35	117.804	103.315	88.630	73.318	58.899	46.452	30.583	17.261	8.706
40	132.750	116.029	99.400	82.163	65.418	49.909	33.570	18.862	8.120
45	146.659	127.623	108.976	89.772	71.154	52.919	35.977	19.836	7.343
50	158.398	137.930	117.264	96.094	76.137	56.324	37.462	20.080	6.711
55	167.661	146.218	124.097	101.465	80.243	59.705	42.421	21.176	5.980
60	174.905	151.861	129.178	106.424	83.816	61.602	44.532	21.588	5.249

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CANDELA TABULATION - (Cont.)

65	180.229	156.989	133.284	108.756	85.736	62.814	44.509	21.222	4.814
70	182.683	159.587	135.598	110.681	87.244	64.102	44.364	21.489	4.570
75	183.216	159.854	136.254	112.334	88.293	64.879	44.561	21.709	3.892
80	183.071	160.126	136.399	111.459	87.829	64.055	44.387	21.100	3.260
85	180.931	158.497	135.134	110.531	87.174	63.910	43.952	20.346	3.840
90	177.405	155.481	132.681	109.220	86.200	63.226	43.175	20.468	3.161
95	173.710	152.076	130.175	106.958	84.059	61.236	42.908	19.813	2.482
100	168.995	148.335	126.724	103.774	81.873	59.630	42.004	17.939	2.917
105	163.189	143.567	122.345	100.444	79.274	58.296	40.815	17.185	2.384
110	157.012	137.443	117.607	97.214	76.479	55.425	37.387	15.654	2.140
115	150.179	131.782	112.526	92.156	72.343	52.264	33.083	13.102	2.285
120	141.938	124.729	106.355	86.907	68.138	49.346	30.340	11.084	2.430
125	132.629	115.374	97.428	79.512	61.625	45.652	25.793	9.628	2.482
130	119.358	102.851	86.542	69.791	54.160	37.729	21.779	7.998	2.627
135	104.771	90.405	76.015	61.405	47.160	32.260	17.406	6.931	2.772
140	90.480	78.225	66.288	52.797	39.747	26.935	14.320	6.247	3.016
145	78.056	68.747	55.889	43.778	32.596	21.443	12.035	5.759	3.161
150	67.141	56.666	45.994	36.267	26.402	18.015	10.916	5.667	3.451
155	52.942	44.411	37.097	28.809	21.686	15.486	9.773	5.568	3.892
160	39.649	33.594	27.469	22.220	17.429	12.911	8.509	5.301	4.182
165	27.248	23.751	20.422	16.971	13.636	10.138	7.169	5.081	4.425
170	18.305	16.408	14.413	12.203	9.819	7.731	5.980	5.058	4.669
175	10.260	9.332	8.242	7.244	6.392	5.667	5.226	4.936	4.860
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	17.30	N.A.	1.00
0-30	58.05	N.A.	3.20
0-40	135.04	N.A.	7.50
0-60	409.65	N.A.	22.80
0-80	791.74	N.A.	44.00
0-90	990.30	N.A.	55.10
10-90	988.03	N.A.	55.00
20-40	117.75	N.A.	6.50
20-50	235.84	N.A.	13.10
40-70	458.80	N.A.	25.50
60-80	382.09	N.A.	21.30
70-80	197.90	N.A.	11.00
80-90	198.56	N.A.	11.00
90-110	362.70	N.A.	20.20
90-120	512.24	N.A.	28.50
90-130	631.98	N.A.	35.20
90-150	770.72	N.A.	42.90
90-180	807.57	N.A.	44.90
110-180	444.87	N.A.	24.70
0-180	1797.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2.27
10-20	15.03
20-30	40.75
30-40	76.99
40-50	118.10
50-60	156.51
60-70	184.19
70-80	197.90
80-90	198.56
90-100	189.62
100-110	173.08
110-120	149.54
120-130	119.74
130-140	85.74
140-150	53.00
150-160	26.70
160-170	9.00
170-180	1.14

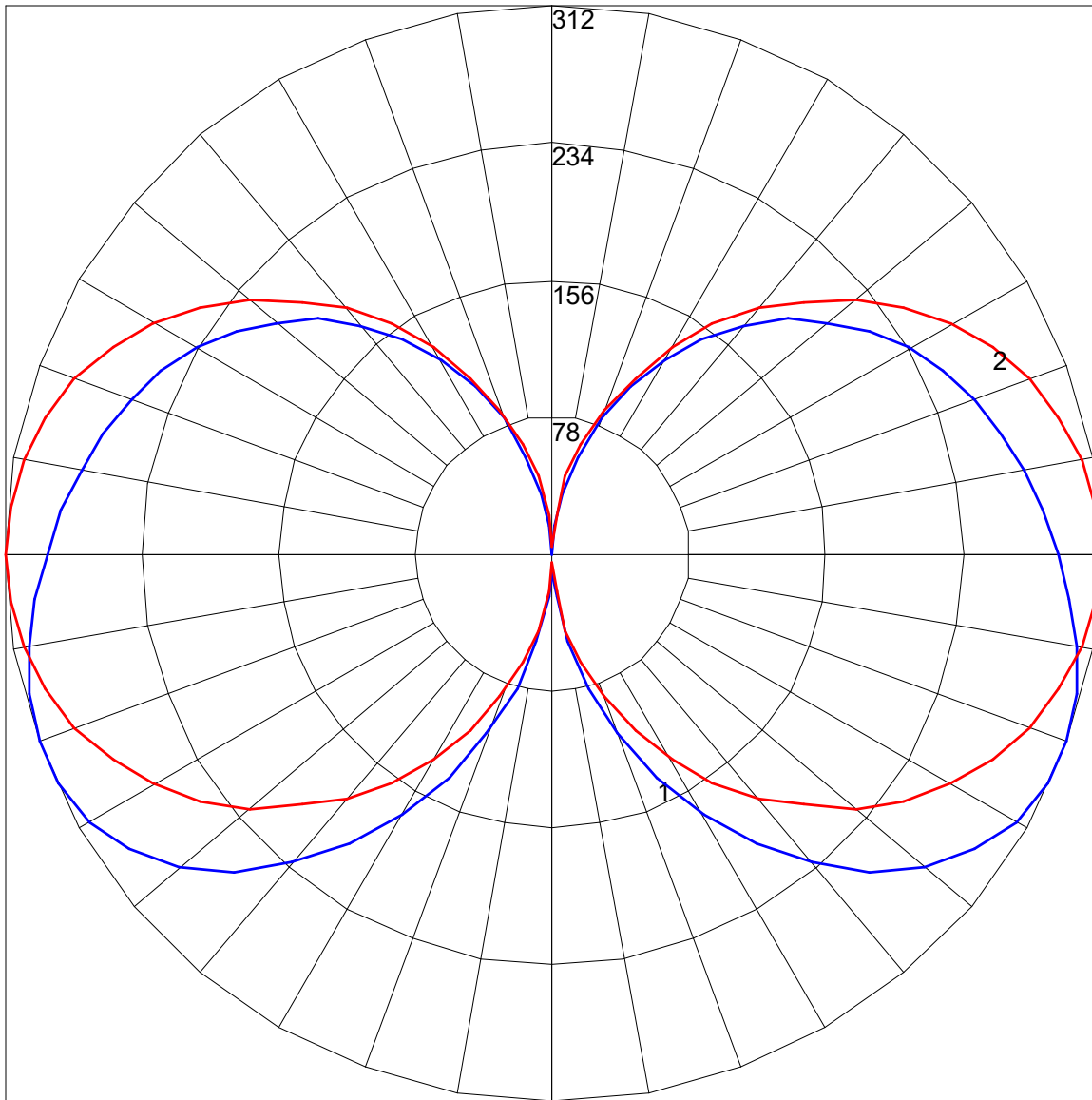
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	93	86	80	75	86	80	74	69	67	63	59	55	52	49	45	42	40	34
2	82	72	63	56	75	66	59	52	55	49	44	45	40	36	36	32	29	24
3	74	61	52	44	67	56	48	41	47	40	34	38	33	28	30	26	22	18
4	67	53	43	35	61	49	40	33	40	33	28	33	27	22	25	21	17	14
5	60	46	37	29	55	43	34	27	35	28	23	29	23	18	22	18	14	11
6	55	41	31	24	50	38	29	23	31	24	19	25	20	15	20	15	12	8
7	51	37	27	21	46	34	25	19	28	21	16	23	17	13	18	13	10	7
8	47	33	24	18	43	30	22	16	25	18	14	20	15	11	16	12	8	6
9	43	30	21	15	40	27	20	14	23	16	12	19	13	10	15	10	7	5
10	40	27	19	14	37	25	17	12	21	15	10	17	12	8	13	9	6	4

POLAR GRAPH



Maximum Candela = 311.837 Located At Horizontal Angle = 0, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)