

IES Report

ZipTwo® | 707 | Square 3572, Side Diffuse | 80 CRI | LO

707-Z2-4-48-XX-XX-X-0-Z-LO-35-H9-X-BL-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	117	120	123	123
Total Lumens, 4' rail length (1219mm)	1731	1786	1823	1823
Lumens per foot (305mm)	433	447	456	456
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_H9_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011203 (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-H9-BL

[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board, square 3572,

[MORE] side diffuse black lens, low output

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1823
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
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	0.22 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2919	2250	205
55	3243	2566	179
65	3413	2803	166
75	3473	2991	152
85	3515	3221	277

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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	10.713	10.713	10.713	10.713	10.713	10.713	10.713	10.713	10.713	10.713
5	22.075	21.999	21.808	21.367	20.758	20.033	19.157	18.108	16.971	15.706
10	50.124	49.909	49.323	48.326	46.870	45.118	43.001	40.472	37.677	34.713
15	80.655	80.342	79.298	77.621	75.185	72.152	68.573	64.397	59.676	54.746
20	113.181	112.694	111.163	108.663	105.090	100.665	95.485	89.459	82.604	75.458
25	146.781	146.119	144.031	140.702	135.865	130.053	123.122	114.956	106.111	96.651
30	179.933	179.034	176.506	172.353	166.443	159.007	150.203	140.140	129.201	117.438
35	211.683	210.807	207.623	202.443	195.472	186.400	176.459	164.210	150.887	136.665
40	241.535	240.340	236.675	230.817	222.500	211.758	200.500	186.400	171.257	155.069
45	268.082	266.765	262.537	255.925	246.564	235.236	221.647	206.822	189.538	171.576
50	290.104	288.596	284.026	277.025	267.276	254.562	239.859	223.062	204.949	184.481
55	306.536	305.103	300.533	293.213	282.715	269.491	254.272	236.356	214.745	196.272
60	317.132	315.630	311.031	303.549	292.778	279.775	264.167	245.839	225.318	204.462
65	322.091	320.589	315.943	308.676	298.468	285.024	269.514	251.308	231.495	208.545
70	321.755	320.346	316.019	308.989	299.048	286.311	271.266	253.251	233.003	209.885
75	317.185	315.845	311.860	305.225	295.696	283.782	269.369	252.033	232.418	209.496
80	309.697	308.432	304.639	298.468	289.762	278.267	264.358	248.315	230.132	207.721
85	300.602	299.489	295.962	290.296	282.153	271.359	258.552	242.945	224.982	204.781
90	290.783	289.664	286.456	281.184	273.377	263.314	251.186	236.408	219.315	200.645
95	280.621	279.601	276.492	271.312	263.946	254.637	242.991	229.013	213.069	194.764
100	270.611	269.636	266.551	261.684	254.904	245.717	234.482	221.235	205.923	189.782
105	260.449	259.550	256.754	252.033	245.276	236.478	225.881	212.947	197.003	182.538
110	249.992	249.093	246.274	241.756	235.022	226.635	216.421	204.172	190.437	174.806
115	238.763	237.887	235.068	230.596	224.251	215.963	205.900	195.031	181.708	166.883
120	226.513	225.707	223.033	218.683	212.582	204.537	195.251	184.457	171.280	157.110
125	212.993	212.118	209.664	205.413	199.555	192.722	183.703	172.863	160.393	147.094
130	198.070	197.293	195.199	191.533	185.942	178.791	170.213	160.126	148.793	134.937
135	182.804	182.050	179.788	176.024	170.914	164.181	156.211	145.708	132.530	118.993
140	164.865	164.210	162.069	158.711	153.973	147.801	138.562	126.283	114.324	102.730
145	145.609	144.977	143.156	140.018	135.790	127.571	117.218	106.935	97.040	87.441
150	125.141	124.584	123.030	120.356	113.987	104.673	96.384	88.218	81.096	74.750
155	103.750	103.286	101.831	98.159	89.361	82.551	76.502	72.100	67.338	61.840
160	81.438	81.020	79.611	72.222	66.439	61.892	59.462	56.591	52.629	47.084
165	58.632	58.342	53.163	48.935	45.895	44.996	43.512	41.035	36.900	33.425
170	36.412	33.739	29.510	27.544	27.811	27.834	26.767	25.062	23.287	21.419
175	16.043	12.667	12.667	13.856	14.633	14.367	13.955	13.369	12.615	11.768
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	10.713	10.713	10.713	10.713	10.713	10.713	10.713	10.713	10.713
5	14.343	12.957	11.913	11.107	10.550	10.382	10.428	10.452	10.405
10	31.407	27.956	24.383	20.567	16.727	12.859	10.550	10.260	10.208
15	49.277	43.587	37.799	31.651	25.526	19.227	13.079	9.872	9.964
20	67.628	59.560	51.388	42.787	34.278	25.648	17.209	9.941	9.628
25	86.345	75.748	64.977	53.604	42.810	31.819	21.147	11.061	9.529
30	104.458	91.304	78.010	64.102	50.953	38.483	24.696	12.592	9.094
35	121.423	106.111	90.358	74.020	59.021	43.535	28.611	14.442	8.166
40	137.489	119.381	101.587	83.793	66.195	48.326	31.726	16.141	7.534
45	152.221	132.315	112.236	91.425	72.001	53.847	36.244	17.185	7.389
50	164.256	142.935	121.081	98.501	77.401	56.910	37.874	18.380	6.125
55	174.128	151.177	127.890	104.649	82.238	60.163	39.840	19.546	5.348
60	181.929	158.056	133.893	109.150	85.376	61.938	41.105	19.935	4.617

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CANDELA TABULATION - (Cont.)

65	185.942	162.435	137.733	111.946	87.876	63.713	41.569	20.155	3.793
70	187.688	164.453	139.461	114.231	89.430	65.586	44.996	21.147	3.016
75	189.126	165.085	140.261	115.008	90.457	65.366	45.362	21.269	2.285
80	188.007	164.476	140.093	114.376	90.039	65.441	45.095	20.665	2.239
85	184.771	162.238	138.516	113.204	89.262	65.633	44.776	20.857	1.897
90	180.786	158.299	135.621	112.137	88.653	64.397	44.921	20.979	1.554
95	176.216	154.970	132.681	108.854	86.031	62.791	44.097	20.248	1.798
100	170.578	150.156	128.690	105.647	83.648	61.451	43.686	19.036	2.088
105	164.036	144.443	123.830	102.416	81.165	59.798	41.615	18.380	1.995
110	157.400	138.661	118.993	98.211	77.645	56.689	37.630	16.820	2.140
115	149.744	131.950	113.257	93.345	73.898	53.696	33.791	14.268	2.575
120	141.137	124.584	106.645	88.050	69.478	50.779	31.453	12.203	2.772
125	132.263	115.733	98.478	80.927	63.058	46.794	27.179	9.964	2.964
130	119.260	103.484	87.632	71.056	55.181	38.796	22.800	8.387	3.207
135	104.748	91.014	77.012	62.304	48.181	33.982	19.279	7.563	3.451
140	90.648	78.857	66.654	53.917	41.325	29.168	15.944	6.734	3.596
145	78.422	68.991	56.544	45.385	34.736	23.409	13.299	6.148	3.741
150	67.286	57.124	47.113	38.042	28.565	19.250	11.913	5.858	4.037
155	53.725	45.727	38.819	30.972	23.165	16.576	10.597	5.858	4.570
160	41.667	36.001	29.974	24.093	18.792	13.932	9.263	5.788	5.005
165	29.708	25.624	21.854	18.084	14.535	10.985	7.656	5.638	5.249
170	19.302	17.261	15.022	12.714	10.405	8.143	6.322	5.568	5.446
175	10.817	9.819	8.630	7.511	6.589	6.003	5.736	5.614	5.638
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	16.82	N.A.	0.90
0-30	58.43	N.A.	3.20
0-40	138.09	N.A.	7.60
0-60	423.28	N.A.	23.20
0-80	816.99	N.A.	44.80
0-90	1019.28	N.A.	55.90
10-90	1017.24	N.A.	55.80
20-40	121.27	N.A.	6.70
20-50	244.10	N.A.	13.40
40-70	475.61	N.A.	26.10
60-80	393.71	N.A.	21.60
70-80	203.29	N.A.	11.20
80-90	202.29	N.A.	11.10
90-110	363.51	N.A.	19.90
90-120	511.10	N.A.	28.00
90-130	628.79	N.A.	34.50
90-150	765.91	N.A.	42.00
90-180	803.32	N.A.	44.10
110-180	439.81	N.A.	24.10
0-180	1822.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2.04
10-20	14.78
20-30	41.61
30-40	79.66
40-50	122.83
50-60	162.36
60-70	190.42
70-80	203.29
80-90	202.29
90-100	191.08
100-110	172.43
110-120	147.59
120-130	117.68
130-140	84.46
140-150	52.66
150-160	26.84
160-170	9.35
170-180	1.22

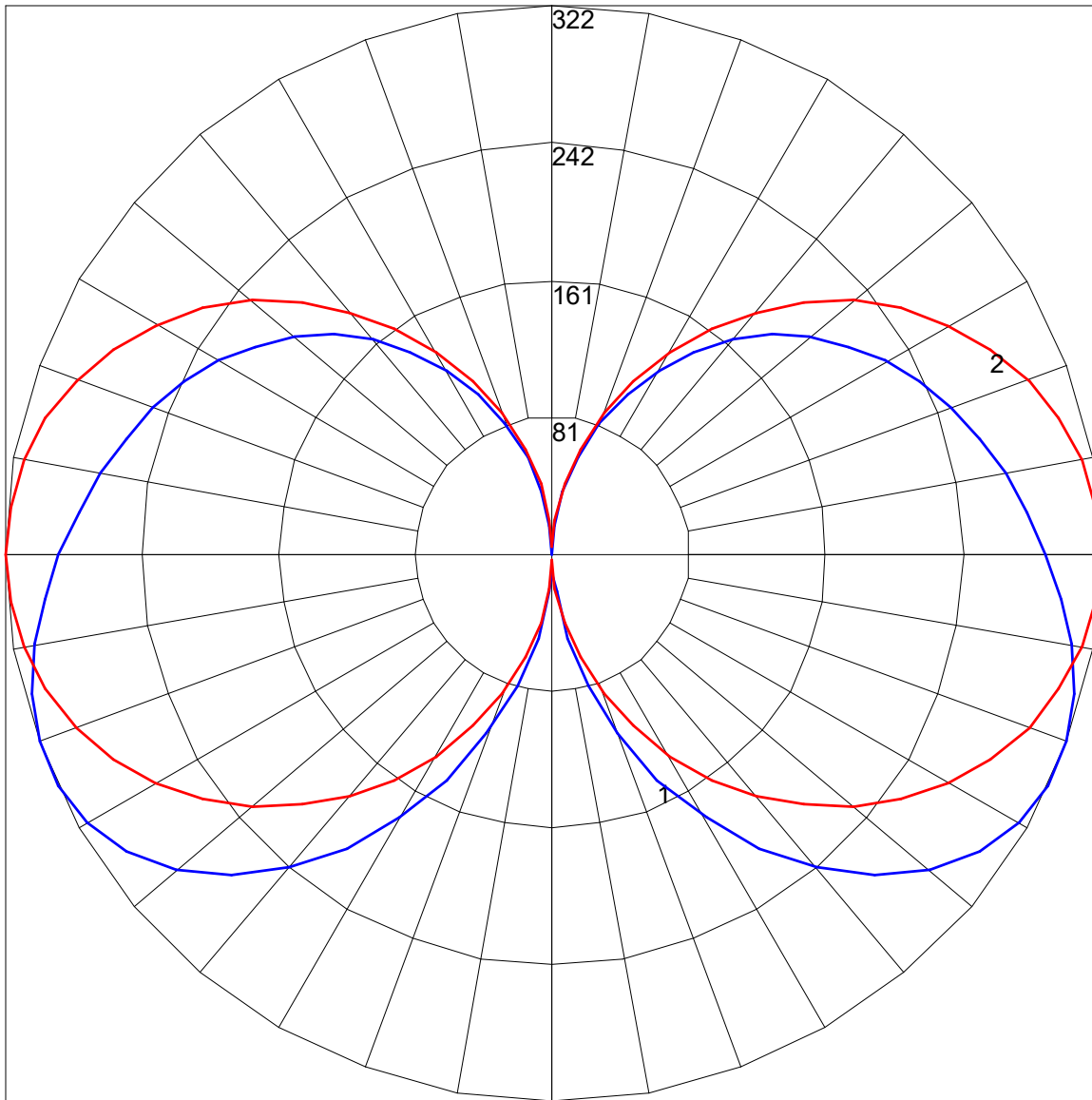
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	93	86	80	75	86	80	74	69	67	63	59	56	52	49	45	43	40	35
2	82	72	63	56	75	66	59	52	55	49	44	45	41	37	36	33	29	25
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	23	26	21	18	14
5	60	46	36	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	9
7	51	36	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	21	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	13	37	25	17	12	21	15	10	17	12	8	14	9	6	4

POLAR GRAPH



Maximum Candela = 322.091 Located At Horizontal Angle = 0, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)