

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	112	115	117	117
Total Lumens, 4' rail length (1219mm)	1654	1706	1741	1741
Lumens per foot (305mm)	414	427	435	435
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_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011208 (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-BL

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

[MORE] square 3554, 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	1741
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
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	3234	2434	267
55	3655	2831	257
65	3939	3148	251
75	4105	3463	272
85	4285	3894	420

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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	13.508	13.508	13.508	13.508	13.508	13.508	13.508	13.508	13.508	13.508
5	26.593	26.593	26.349	26.523	25.769	25.062	24.116	22.974	22.023	20.955
10	52.896	52.629	52.142	51.144	50.002	48.204	46.116	43.442	40.838	37.949
15	81.241	80.852	79.831	78.254	75.626	72.390	68.892	64.467	60.239	55.668
20	110.705	110.362	108.907	106.569	102.538	98.113	92.980	87.267	81.119	74.437
25	142.158	141.427	139.386	136.230	130.761	124.804	118.216	110.507	102.242	93.566
30	172.788	171.889	169.627	165.619	159.372	152.053	143.689	133.870	123.441	112.503
35	202.542	201.620	198.604	193.308	185.791	177.648	167.463	155.892	143.353	130.320
40	230.109	228.822	225.150	219.536	211.294	200.697	189.538	176.703	162.191	147.117
45	254.516	253.327	249.336	242.533	233.369	221.920	209.107	194.689	179.133	162.290
50	274.937	273.621	269.074	261.858	252.254	240.027	226.096	209.931	192.189	174.928
55	289.959	288.741	284.415	277.269	266.696	254.173	239.441	222.430	202.710	185.136
60	300.411	299.002	294.478	286.920	276.735	263.488	248.391	231.153	212.535	191.678
65	305.469	303.984	299.703	292.848	282.472	269.584	254.052	236.478	217.077	195.541
70	305.126	303.671	299.611	292.946	282.472	270.390	255.734	238.542	219.339	196.881
75	301.333	300.022	296.183	289.571	280.186	268.470	253.907	237.765	219.634	197.270
80	295.110	293.898	290.348	284.316	275.372	264.115	250.821	234.900	216.810	196.440
85	287.286	286.166	282.814	277.101	268.836	258.187	245.595	230.399	213.115	195.008
90	278.968	277.901	274.572	269.149	261.296	251.552	239.175	225.028	208.452	191.383
95	270.657	269.514	266.353	261.128	253.907	244.134	232.441	218.730	201.521	186.522
100	262.346	261.273	258.286	253.274	246.082	236.675	225.562	212.118	196.371	180.740
105	253.686	252.718	249.702	244.789	237.597	228.601	217.929	205.071	190.629	174.418
110	244.551	243.623	240.636	235.724	229.065	219.924	209.444	196.295	183.605	168.072
115	234.291	233.438	230.573	225.759	219.124	210.395	200.280	188.784	174.806	159.807
120	222.523	221.647	218.904	214.258	207.675	199.845	190.513	178.791	165.422	151.154
125	209.107	208.278	205.558	201.208	195.419	187.787	178.547	167.562	155.359	141.967
130	194.619	193.819	191.359	187.618	181.807	174.493	165.787	155.457	143.521	129.497
135	178.234	177.457	175.241	171.500	166.176	159.517	151.496	140.604	126.846	113.448
140	159.807	159.152	157.180	153.903	148.892	142.964	133.214	120.889	109.098	97.695
145	139.826	139.264	137.709	134.722	130.343	121.986	111.749	102.028	92.255	83.015
150	118.871	118.285	117.096	114.544	107.787	99.180	91.257	83.624	76.838	70.835
155	97.428	97.069	96.042	92.377	83.868	77.714	71.978	67.970	63.423	58.099
160	75.162	74.849	74.072	66.752	61.213	57.246	55.083	52.339	48.471	43.077
165	51.974	51.562	47.206	43.222	40.351	40.136	38.674	36.198	32.283	29.220
170	30.044	27.614	24.064	22.678	23.484	23.995	23.339	22.342	21.344	19.935
175	13.711	10.747	11.061	12.348	13.056	13.178	13.004	12.760	12.279	11.693
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	13.508	13.508	13.508	13.508	13.508	13.508	13.508	13.508	13.508
5	19.911	18.914	18.015	17.064	16.310	15.556	14.999	14.587	14.146
10	34.736	31.308	27.933	24.406	21.321	18.548	16.188	14.778	13.903
15	50.269	44.973	39.527	33.791	28.200	22.585	17.841	14.854	13.665
20	67.193	59.508	51.806	43.929	36.175	28.298	20.491	15.121	13.125
25	83.816	73.851	63.910	53.772	43.709	33.889	23.971	15.608	12.592
30	100.566	88.218	75.870	63.493	51.388	39.092	27.324	16.455	11.913
35	116.029	101.320	86.855	72.245	58.075	43.807	30.195	17.359	11.182
40	130.807	114.011	97.382	80.197	64.078	47.937	32.648	18.015	9.964
45	143.741	125.315	106.645	87.586	69.646	53.551	34.933	19.134	9.483
50	154.651	134.502	114.254	94.418	74.675	56.103	38.698	20.126	8.555
55	164.378	143.011	121.377	98.960	78.300	57.635	40.113	20.422	7.534
60	171.088	148.526	126.040	102.875	81.194	59.630	40.594	20.445	6.612

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CANDELA TABULATION - (Cont.)

65	175.241	152.221	129.131	105.914	83.282	61.625	41.348	21.124	5.591
70	178.280	154.506	131.585	107.689	84.593	61.816	41.789	21.176	4.617
75	178.135	155.434	132.194	107.886	85.034	62.083	42.636	20.370	3.938
80	176.894	154.727	131.416	107.619	84.837	62.570	43.854	20.665	3.161
85	174.609	152.517	129.978	107.300	84.355	61.550	43.633	20.201	2.627
90	171.233	149.988	127.965	104.702	82.528	60.163	42.833	19.082	2.720
95	166.709	146.462	125.071	102.387	80.777	59.195	42.125	18.862	2.772
100	161.536	141.967	121.232	99.864	78.886	57.901	40.258	17.963	2.187
105	156.820	137.321	117.415	96.582	75.916	55.349	37.973	16.895	1.995
110	150.232	131.904	112.723	92.400	72.929	53.041	34.400	14.802	2.482
115	143.057	125.802	107.201	88.462	69.501	50.901	33.083	13.491	2.529
120	135.476	118.581	101.245	83.503	65.656	47.305	29.168	11.182	2.674
125	126.771	110.531	93.397	75.528	58.684	42.033	24.209	9.216	3.016
130	113.622	98.258	82.772	66.897	51.875	37.555	20.735	8.045	3.115
135	99.400	86.008	72.633	58.777	45.165	30.752	16.971	7.221	3.352
140	86.153	74.315	62.837	50.245	37.874	25.404	13.932	6.589	3.503
145	74.315	65.244	53.215	41.690	31.117	19.935	11.791	6.055	3.695
150	63.545	53.505	43.587	34.249	24.772	16.895	10.649	6.003	4.228
155	49.955	41.911	35.078	27.127	20.515	14.877	9.628	6.102	4.959
160	37.630	31.749	26.257	21.564	17.116	12.714	8.874	6.177	5.493
165	25.984	22.951	20.155	16.895	13.543	10.260	7.876	6.177	5.980
170	18.305	16.553	14.564	12.424	10.330	8.630	7.267	6.589	6.566
175	10.939	10.237	9.408	8.584	7.900	7.389	7.024	7.047	7.047
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	17.64	N.A.	1.00
0-30	58.32	N.A.	3.30
0-40	134.77	N.A.	7.70
0-60	405.19	N.A.	23.30
0-80	777.62	N.A.	44.70
0-90	969.90	N.A.	55.70
10-90	967.46	N.A.	55.60
20-40	117.13	N.A.	6.70
20-50	233.86	N.A.	13.40
40-70	450.47	N.A.	25.90
60-80	372.43	N.A.	21.40
70-80	192.38	N.A.	11.00
80-90	192.28	N.A.	11.00
90-110	348.34	N.A.	20.00
90-120	491.12	N.A.	28.20
90-130	605.03	N.A.	34.80
90-150	736.48	N.A.	42.30
90-180	771.16	N.A.	44.30
110-180	422.82	N.A.	24.30
0-180	1741.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2.44
10-20	15.20
20-30	40.68
30-40	76.45
40-50	116.73
50-60	153.69
60-70	180.05
70-80	192.38
80-90	192.28
90-100	182.54
100-110	165.80
110-120	142.78
120-130	113.91
130-140	81.35
140-150	50.10
150-160	25.09
160-170	8.46
170-180	1.14

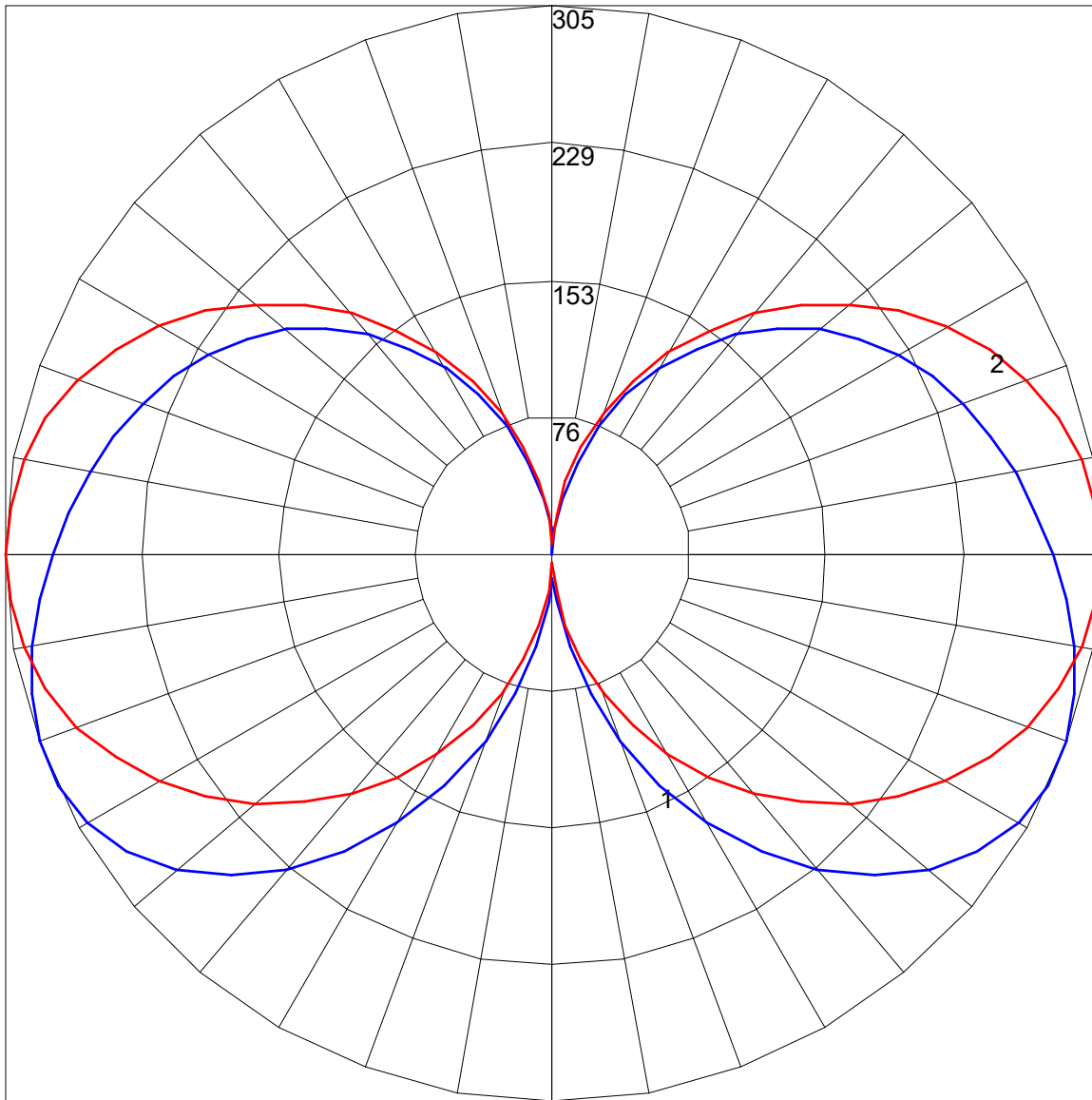
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	109	109	109	101	101	101	101	87	87	87	73	73	73	61	61	61	56
1	93	86	80	75	86	80	74	69	67	63	59	56	52	49	45	43	40	35
2	83	72	64	56	76	66	59	52	56	49	44	46	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	36	61	49	40	33	41	33	28	33	27	23	26	21	18	14
5	61	46	37	29	55	43	34	27	35	28	23	29	23	18	23	18	14	11
6	55	41	31	25	50	38	29	23	31	24	19	25	20	15	20	15	12	9
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	17	25	19	14	21	15	11	16	12	8	6
9	44	30	21	16	40	27	20	14	23	16	12	19	13	10	15	10	7	5
10	41	27	19	14	37	25	18	13	21	15	10	17	12	8	14	9	6	4

POLAR GRAPH



Maximum Candela = 305.469 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.)