

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	126	130	133	133
Total Lumens, 4' rail length (1219mm)	4962	5119	5223	5223
Lumens per foot (305mm)	1241	1280	1306	1306
Input Power (W), 4' rail length (1219mm)	39.6	39.6	39.6	39.6
Watts per foot (305mm)	9.9	9.9	9.9	9.9
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_HO_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-HO-35-J9-BL
[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board,
[MORE] square 3554, side diffuse black lens, high output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5223
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	39.55
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	9701	7302	800
55	10965	8494	770
65	11817	9443	754
75	12314	10388	817
85	12856	11681	1261

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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	40.525	40.525	40.525	40.525	40.525	40.525	40.525	40.525	40.525	40.525
5	79.779	79.779	79.048	79.570	77.308	75.185	72.349	68.921	66.068	62.866
10	158.688	157.888	156.426	153.433	150.005	144.611	138.347	130.326	122.513	113.848
15	243.722	242.556	239.494	234.761	226.879	217.169	206.677	193.401	180.716	167.005
20	332.114	331.087	326.720	319.708	307.615	294.338	278.939	261.800	243.356	223.312
25	426.474	424.282	418.157	408.691	392.283	374.413	354.647	331.522	306.727	280.697
30	518.363	515.666	508.880	496.857	478.117	456.158	431.068	401.609	370.324	337.508
35	607.625	604.859	595.811	579.925	557.374	532.945	502.390	467.677	430.058	390.961
40	690.328	686.465	675.451	658.607	633.882	602.092	568.615	530.108	486.574	441.351
45	763.547	759.980	748.009	727.598	700.106	665.759	627.322	584.066	537.399	486.869
50	824.812	820.862	807.221	785.575	756.761	720.082	678.287	629.793	576.566	524.784
55	869.878	866.224	853.244	831.807	800.087	762.520	718.324	667.290	608.130	555.408
60	901.233	897.005	883.433	860.761	830.206	790.465	745.172	693.460	637.606	575.035
65	916.406	911.951	899.110	878.543	847.415	808.752	762.155	709.433	651.230	586.624
70	915.379	911.012	898.832	878.839	847.415	811.171	767.201	715.627	658.016	590.643
75	904.000	900.067	888.548	868.712	840.559	805.411	761.720	713.296	658.903	591.809
80	885.329	881.693	871.044	852.948	826.117	792.344	752.463	704.700	650.429	589.321
85	861.857	858.499	848.441	831.302	806.507	774.561	736.786	691.198	639.346	585.023
90	836.905	833.704	823.716	807.447	783.887	754.655	717.524	675.085	625.356	574.148
95	811.971	808.543	799.060	783.383	761.720	732.401	697.322	656.189	604.563	559.567
100	787.037	783.818	774.857	759.823	738.247	710.024	676.686	636.353	589.112	542.219
105	761.059	758.153	749.105	734.367	712.791	685.804	653.788	615.212	571.886	523.253
110	733.654	730.870	721.909	707.171	687.196	659.773	628.331	588.886	550.814	504.217
115	702.873	700.315	691.720	677.278	657.372	631.185	600.839	566.353	524.419	479.422
120	667.568	664.941	656.711	642.773	623.024	599.534	571.538	536.372	496.265	453.461
125	627.322	624.834	616.673	603.623	586.258	563.360	535.642	502.686	466.076	425.900
130	583.857	581.456	574.078	562.855	545.420	523.479	497.362	466.372	430.563	388.490
135	534.702	532.370	525.724	514.501	498.527	478.552	454.488	421.811	380.538	340.344
140	479.422	477.456	471.540	461.709	446.675	428.893	399.643	362.668	327.294	293.086
145	419.479	417.791	413.128	404.167	391.030	365.957	335.246	306.083	276.764	249.046
150	356.613	354.856	351.289	343.633	323.362	297.540	273.772	250.873	230.515	212.506
155	292.285	291.206	288.127	277.130	251.604	233.143	215.934	203.911	190.269	174.296
160	225.487	224.547	222.215	200.257	183.640	171.738	165.248	157.018	145.412	129.230
165	155.921	154.686	141.619	129.665	121.052	120.408	116.023	108.593	96.848	87.661
170	90.132	82.841	72.193	68.034	70.453	71.984	70.018	67.025	64.032	59.804
175	41.134	32.242	33.182	37.045	39.167	39.533	39.011	38.280	36.836	35.078
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	40.525	40.525	40.525	40.525	40.525	40.525	40.525	40.525	40.525
5	59.734	56.741	54.044	51.191	48.929	46.667	44.996	43.761	42.439
10	104.209	93.925	83.798	73.219	63.962	55.645	48.563	44.335	41.708
15	150.806	134.920	118.581	101.372	84.599	67.756	53.522	44.561	40.994
20	201.579	178.524	155.417	131.788	108.524	84.895	61.474	45.362	39.376
25	251.447	221.554	191.731	161.315	131.126	101.668	71.914	46.823	37.775
30	301.699	264.654	227.609	190.478	154.164	117.276	81.971	49.364	35.740
35	348.087	303.961	260.565	216.734	174.226	131.422	90.584	52.078	33.547
40	392.422	342.032	292.146	240.590	192.235	143.811	97.945	54.044	29.893
45	431.224	375.944	319.934	262.757	208.939	160.654	104.800	57.403	28.449
50	463.954	403.506	342.763	283.255	224.025	168.310	116.093	60.378	25.665
55	493.133	429.032	364.130	296.879	234.900	172.904	120.338	61.265	22.603
60	513.265	445.579	378.119	308.624	243.583	178.889	121.783	61.335	19.836

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CANDELA TABULATION - (Cont.)

65	525.724	456.663	387.394	317.741	249.847	184.875	124.045	63.371	16.774
70	534.841	463.519	394.754	323.066	253.779	185.449	125.367	63.527	13.850
75	534.406	466.303	396.581	323.657	255.101	186.250	127.907	61.109	11.815
80	530.683	464.180	394.249	322.857	254.510	187.711	131.561	61.996	9.483
85	523.827	457.550	389.934	321.900	253.066	184.649	130.900	60.604	7.882
90	513.700	449.964	383.896	314.105	247.585	180.490	128.499	57.246	8.161
95	500.128	439.385	375.214	307.162	242.330	177.584	126.376	56.585	8.317
100	484.607	425.900	363.695	299.593	236.657	173.704	120.773	53.888	6.560
105	470.461	411.962	352.246	289.745	227.749	166.048	113.918	50.686	5.986
110	450.695	395.711	338.169	277.199	218.788	159.123	103.199	44.405	7.447
115	429.171	377.406	321.604	265.385	208.504	152.702	99.250	40.472	7.586
120	406.429	355.743	303.734	250.508	196.968	141.914	87.505	33.547	8.021
125	380.312	331.592	280.192	226.583	176.053	126.098	72.628	27.649	9.048
130	340.866	294.773	248.315	200.692	155.626	112.665	62.205	24.134	9.344
135	298.201	258.025	217.900	176.332	135.494	92.255	50.912	21.663	10.057
140	258.460	222.946	188.512	150.736	113.622	76.212	41.795	19.766	10.510
145	222.946	195.733	159.645	125.071	93.351	59.804	35.374	18.166	11.084
150	190.634	160.515	130.761	102.747	74.315	50.686	31.946	18.009	12.685
155	149.866	125.732	105.235	81.380	61.544	44.631	28.884	18.305	14.877
160	112.891	95.248	78.770	64.693	51.347	38.141	26.622	18.531	16.478
165	77.952	68.852	60.465	50.686	40.629	30.781	23.629	18.531	17.939
170	54.914	49.660	43.691	37.271	30.989	25.891	21.802	19.766	19.697
175	32.816	30.711	28.223	25.752	23.699	22.168	21.071	21.141	21.141
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	52.93	N.A.	1.00
0-30	174.96	N.A.	3.30
0-40	404.32	N.A.	7.70
0-60	1215.56	N.A.	23.30
0-80	2332.85	N.A.	44.70
0-90	2909.69	N.A.	55.70
10-90	2902.37	N.A.	55.60
20-40	351.39	N.A.	6.70
20-50	701.57	N.A.	13.40
40-70	1351.4	N.A.	25.90
60-80	1117.29	N.A.	21.40
70-80	577.13	N.A.	11.00
80-90	576.84	N.A.	11.00
90-110	1045.02	N.A.	20.00
90-120	1473.35	N.A.	28.20
90-130	1815.08	N.A.	34.80
90-150	2209.43	N.A.	42.30
90-180	2313.48	N.A.	44.30
110-180	1268.46	N.A.	24.30
0-180	5223.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	7.32
10-20	45.61
20-30	122.03
30-40	229.36
40-50	350.18
50-60	461.06
60-70	540.16
70-80	577.13
80-90	576.84
90-100	547.62
100-110	497.40
110-120	428.33
120-130	341.74
130-140	244.05
140-150	150.29
150-160	75.26
160-170	25.37
170-180	3.42

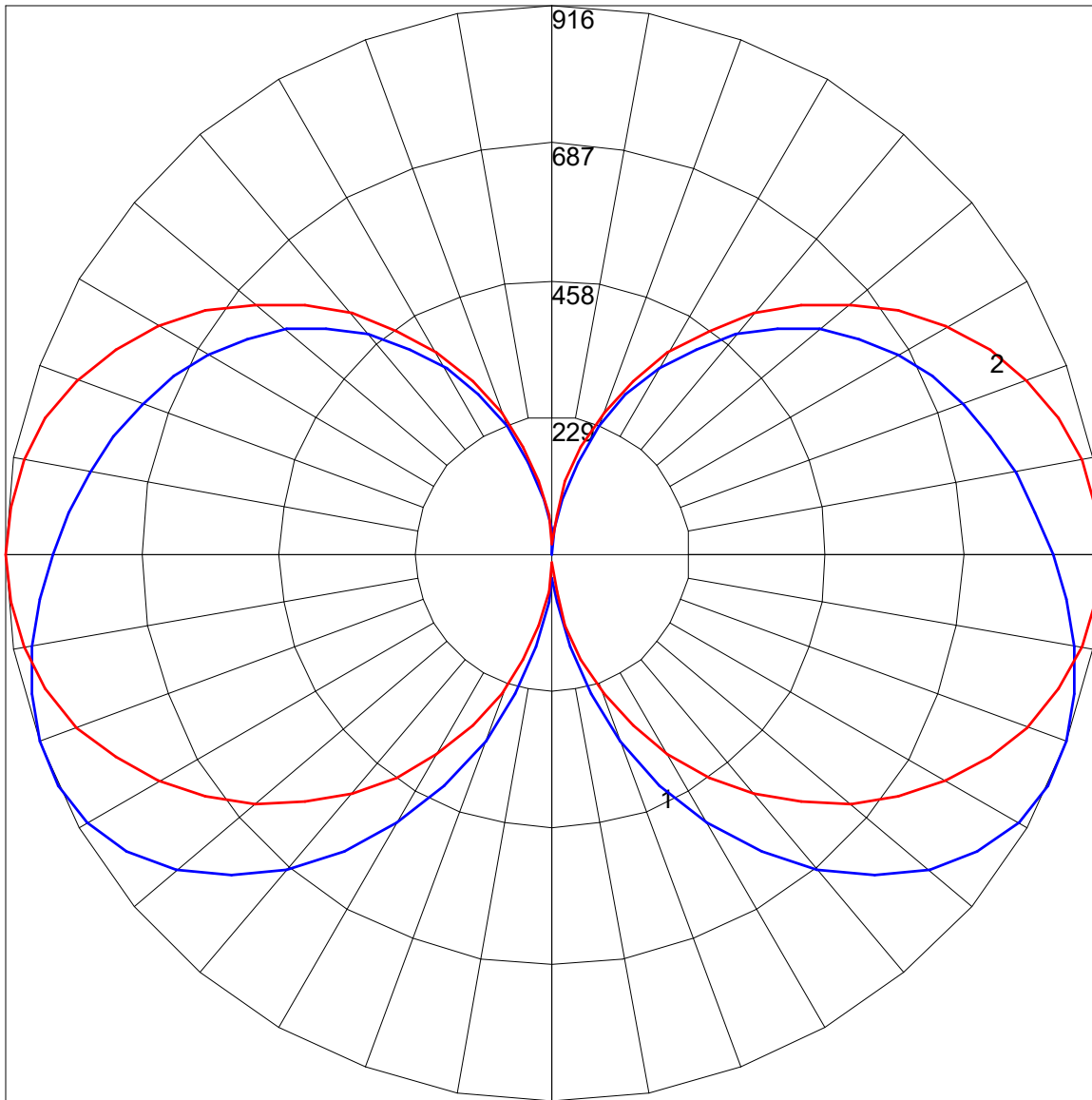
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	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 = 916.406 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.)