

IES Report

ZipTwo® | 707 | Ceiling Cable | Square 3520, Side Diffuse | 80 CRI | SO

707-Z2-S-4-48-CC-XX-XX-XX-X-X-Z-SO-X-F9-WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	81	83	85	85
Total Lumens, 4' rail length (1219mm)	2097	2163	2207	2207
Lumens per foot (305mm)	524	541	552	552
Input Power (W), 4' rail length (1219mm)	26.1	26.1	26.1	26.1
Watts per foot (305mm)	6.6	6.6	6.6	6.6
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_CC_SO_35_F9_WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011212 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 5/12/2021

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z2-48-CC-Z-SO-35-F9-WH

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

[MORE] square 3520, side diffuse lens, standard output, white painted finish

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2208
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	26.11
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	0.05 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5011	3431	208
55	7010	4783	219
65	9555	6616	218
75	12815	9278	279
85	17734	14051	450

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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	9.886	9.886	9.886	9.886	9.886	9.886	9.886	9.886	9.886	9.886
5	20.412	20.412	20.290	19.950	19.555	19.039	18.467	17.665	16.876	16.074
10	41.259	41.205	40.811	40.185	39.097	37.846	36.309	34.541	32.542	30.380
15	63.834	63.548	62.868	61.671	59.958	57.796	55.294	52.261	48.902	45.312
20	88.339	87.999	86.925	85.211	82.641	79.459	75.692	71.300	66.282	61.046
25	114.912	114.449	113.076	110.573	107.092	102.768	97.641	91.535	84.817	77.745
30	143.293	142.599	140.614	137.472	132.971	127.273	120.664	112.790	104.196	95.179
35	173.265	172.476	169.960	165.976	160.155	153.152	144.938	135.201	124.485	113.361
40	204.502	203.414	200.286	195.322	188.265	179.656	169.512	157.816	144.938	131.611
45	236.650	235.276	231.632	225.539	217.094	206.610	194.751	180.907	165.636	149.902
50	269.138	267.656	263.317	256.083	246.115	233.916	220.059	203.822	186.320	168.192
55	300.484	298.947	293.698	285.443	273.870	259.904	243.939	225.539	205.644	185.409
60	329.667	327.722	321.861	312.627	299.572	284.178	266.350	245.884	224.166	201.306
65	355.423	353.316	346.883	336.793	322.827	305.787	286.069	264.460	240.757	216.075
70	375.264	373.157	366.425	355.777	341.403	323.112	302.197	278.888	254.261	228.150
75	389.625	387.408	380.514	369.798	354.852	336.045	314.844	290.515	264.460	237.221
80	398.410	396.234	389.625	378.678	363.746	344.939	323.452	298.770	271.817	244.292
85	402.286	400.164	393.623	383.016	368.193	349.562	328.185	303.448	276.372	248.671
90	402.734	400.681	394.303	384.036	368.941	350.813	329.667	305.107	278.263	250.494
95	401.483	399.484	393.161	382.785	368.315	350.242	329.436	305.039	278.263	250.847
100	398.056	395.948	389.679	379.426	364.888	347.332	326.702	302.714	276.712	249.134
105	391.447	389.339	383.125	372.871	358.959	341.240	321.059	298.199	272.497	245.938
110	381.302	379.249	373.157	363.352	349.725	332.686	313.144	290.447	266.228	240.702
115	367.051	365.011	359.190	349.902	336.956	320.719	302.020	280.303	256.831	232.312
120	349.046	347.046	341.688	332.863	320.828	305.325	287.768	267.370	244.972	221.827
125	327.382	325.737	320.664	312.682	301.340	287.143	270.851	252.044	231.237	209.629
130	302.646	301.395	296.717	289.428	278.997	266.350	251.527	234.202	213.341	189.284
135	275.638	274.319	270.335	263.603	254.437	242.742	229.062	208.146	186.266	165.921
140	245.652	244.456	240.920	234.991	226.614	215.898	197.553	178.908	160.903	143.456
145	214.415	213.504	210.540	205.644	198.178	181.710	166.030	150.922	136.738	124.023
150	183.301	182.553	179.942	175.373	161.869	148.528	136.792	125.736	116.843	107.160
155	151.724	151.098	148.759	139.920	127.273	117.468	108.914	102.822	94.676	85.837
160	116.271	115.646	111.539	99.517	91.304	85.375	82.587	79.173	73.407	65.262
165	82.532	81.621	72.496	67.601	63.779	63.263	60.584	56.137	51.581	48.168
170	52.329	46.454	42.238	40.811	43.027	43.490	42.633	41.667	39.899	37.955
175	30.203	25.362	26.504	29.238	30.435	30.435	30.095	29.809	29.238	28.381
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	9.886	9.886	9.886	9.886	9.886	9.886	9.886	9.886	9.886
5	15.054	14.021	13.109	12.144	11.287	10.485	10.036	9.628	9.574
10	27.878	25.253	22.629	19.773	16.985	14.075	11.736	10.145	9.465
15	41.436	37.275	32.950	28.436	23.825	18.862	14.361	10.770	9.343
20	55.457	49.473	43.490	37.112	30.775	24.057	17.665	11.804	9.234
25	70.048	62.120	54.029	45.829	37.560	29.238	20.861	12.933	8.894
30	85.443	75.298	65.030	54.654	44.346	34.256	24.111	14.361	8.431
35	101.285	89.033	76.426	63.779	51.418	39.220	27.416	15.843	8.323
40	117.183	102.428	87.659	72.782	58.313	43.938	30.326	17.216	7.751
45	133.025	116.040	99.123	81.676	65.153	48.331	33.168	18.236	7.180
50	148.868	129.435	110.233	90.447	71.816	53.009	35.847	19.555	6.840
55	163.922	141.865	120.433	98.552	77.514	57.116	38.077	20.575	6.160
60	177.834	153.941	130.006	105.732	83.103	60.992	40.348	21.541	5.467

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CANDELA TABULATION - (Cont.)

65	190.250	164.439	138.723	112.505	88.230	64.405	42.293	21.949	4.556
70	200.572	173.265	146.026	118.271	92.568	67.764	44.061	22.452	4.447
75	208.554	180.568	151.615	123.057	96.159	70.620	45.366	23.200	3.645
80	214.483	185.518	156.280	127.219	99.409	72.496	46.794	23.880	2.856
85	218.985	189.176	159.367	129.775	100.945	73.407	47.474	23.880	2.162
90	221.256	190.876	160.781	130.918	101.857	73.979	47.760	23.825	1.591
95	221.201	191.392	161.815	131.543	102.768	73.924	48.168	24.057	1.713
100	220.467	190.876	161.243	130.686	102.251	74.101	47.882	22.574	2.285
105	217.326	188.482	159.367	129.490	101.449	73.639	45.883	21.092	3.305
110	212.430	184.552	156.171	127.164	99.626	71.422	45.203	19.433	4.338
115	205.358	178.963	151.833	123.343	95.805	69.423	43.598	17.842	5.249
120	196.410	171.388	144.829	118.148	91.712	67.138	39.954	16.591	6.500
125	185.640	158.564	132.808	107.432	83.443	58.992	35.167	15.612	7.643
130	164.602	141.525	118.148	96.322	74.727	51.867	30.666	15.054	8.554
135	145.346	124.648	105.610	85.606	64.459	45.257	26.681	14.769	9.465
140	126.593	110.179	92.854	72.619	55.117	38.023	24.342	14.361	10.254
145	111.716	96.730	76.834	60.638	46.454	31.686	22.629	14.075	10.947
150	94.268	77.800	64.514	52.152	39.328	30.720	22.683	15.394	12.878
155	73.870	63.956	53.866	43.313	36.364	29.415	22.234	16.931	15.054
160	57.510	49.473	43.490	38.526	33.345	27.361	21.718	18.005	16.754
165	44.578	41.382	37.669	33.916	29.632	24.913	21.146	18.984	18.236
170	36.309	34.365	31.686	28.789	25.593	23.023	21.146	20.235	19.841
175	27.239	25.988	24.682	23.540	22.683	21.949	21.486	21.201	21.092
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	14.11	N.A.	0.60
0-30	47.82	N.A.	2.20
0-40	114.32	N.A.	5.20
0-60	379.90	N.A.	17.20
0-80	818.36	N.A.	37.10
0-90	1072.14	N.A.	48.60
10-90	1070.27	N.A.	48.50
20-40	100.22	N.A.	4.50
20-50	209.13	N.A.	9.50
40-70	467.73	N.A.	21.20
60-80	438.46	N.A.	19.90
70-80	236.30	N.A.	10.70
80-90	253.78	N.A.	11.50
90-110	496.50	N.A.	22.50
90-120	709.76	N.A.	32.10
90-130	881.62	N.A.	39.90
90-150	1080.18	N.A.	48.90
90-180	1135.85	N.A.	51.40
110-180	639.35	N.A.	29.00
0-180	2207.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1.87
10-20	12.24
20-30	33.71
30-40	66.51
40-50	108.91
50-60	156.66
60-70	202.16
70-80	236.30
80-90	253.78
90-100	254.99
100-110	241.51
110-120	213.26
120-130	171.86
130-140	122.66
140-150	75.90
150-160	38.91
160-170	14.24
170-180	2.52

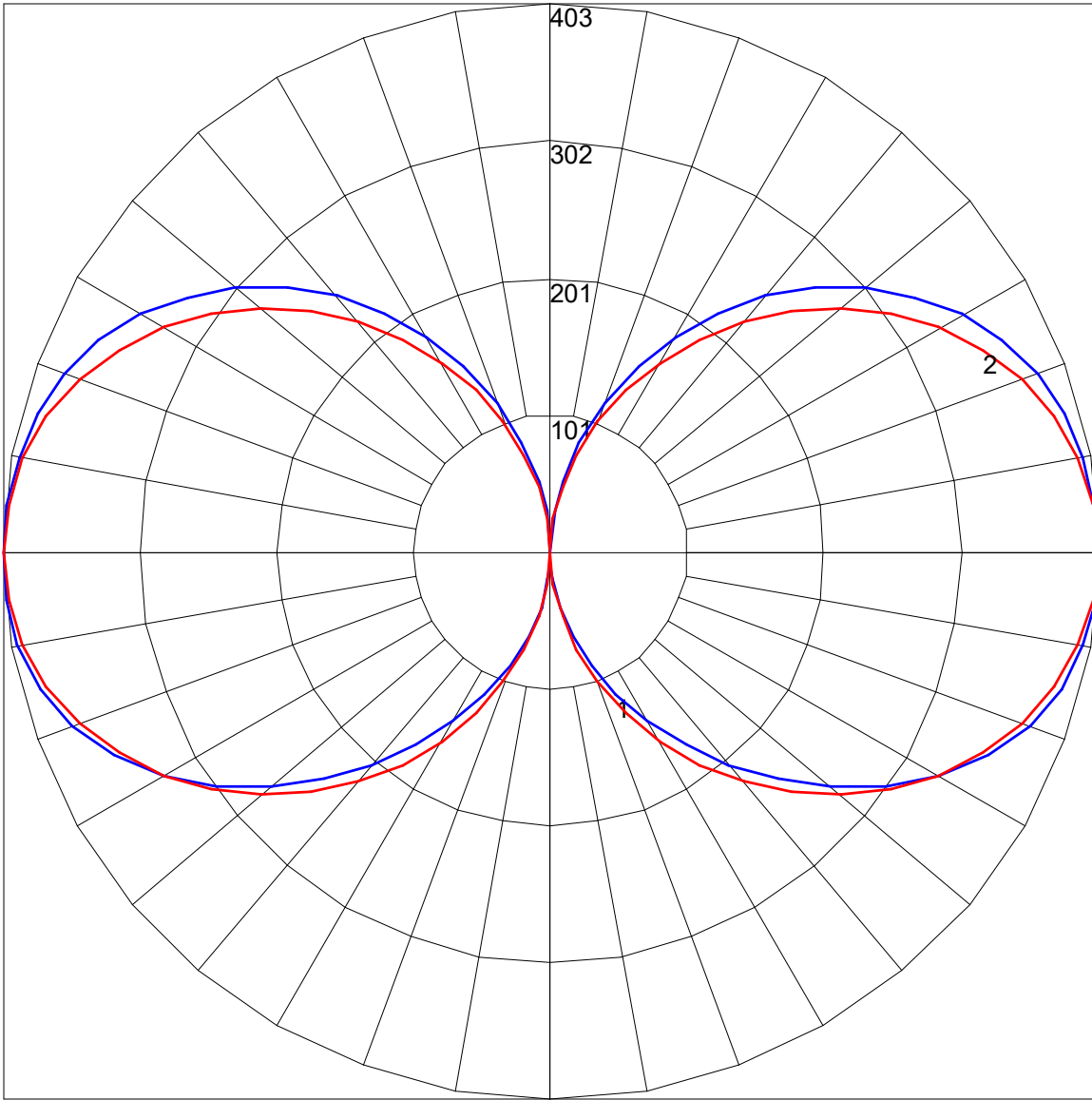
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	92	85	79	73	83	77	72	67	63	59	55	51	48	45	39	37	34	29
2	81	71	62	55	73	64	57	50	52	46	41	41	37	33	31	28	25	19
3	73	60	51	43	65	55	46	39	44	38	32	35	29	25	26	22	18	14
4	65	52	42	35	59	47	39	32	38	31	26	30	24	20	22	18	14	10
5	60	46	36	29	54	41	33	26	33	26	21	26	21	16	19	15	12	8
6	54	40	31	24	49	37	28	22	30	23	18	23	18	14	17	13	9	6
7	50	36	27	20	45	33	24	19	26	20	15	21	15	11	15	11	8	5
8	46	32	24	18	42	29	22	16	24	17	13	19	14	10	14	10	7	4
9	43	29	21	15	39	27	19	14	22	16	11	17	12	8	13	9	6	3
10	40	27	19	13	36	24	17	12	20	14	10	16	11	7	12	8	5	3

POLAR GRAPH



Maximum Candela = 402.734 Located At Horizontal Angle = 0, Vertical Angle = 90
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (90) (Through Max. Cd.)