

## IES Report

# ZipTwo® | 707 | Square 3520, Critical Edge | 80 CRI | SO

707-Z2-4-48-XX-XX-X-0-Z-SO-35-F5-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	86	89	91	91
Total Lumens, 4' rail length (1219mm)	2241	2312	2359	2359
Lumens per foot (305mm)	560	578	590	590
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 : 707\_Z2\_SO\_35\_F5.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L102012301 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 2/8/2021

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z2-48-Z-SO-35-F5

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

[MORE] square 3520, critical edge, standard output

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2359
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	26.11
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.13 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	15809	15627	15433
55	15300	15116	14900
65	14774	14565	14284
75	14444	14137	13690
85	16405	15609	14514

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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>
<b>0</b>	802.639	802.639	802.639	802.639	802.639	802.639	802.639	802.639	802.639	802.639
<b>5</b>	800.644	800.493	800.446	800.493	800.400	800.296	800.354	800.400	800.296	800.354
<b>10</b>	791.306	791.398	791.352	791.259	791.259	791.259	791.016	790.923	790.726	790.679
<b>15</b>	775.460	775.414	775.414	775.309	775.112	774.973	774.625	773.848	773.511	773.465
<b>20</b>	751.924	751.970	751.831	751.680	751.436	750.949	750.462	749.928	749.256	748.815
<b>25</b>	721.972	721.787	721.439	721.346	720.952	720.464	719.687	718.910	718.481	717.356
<b>30</b>	685.119	684.736	684.736	684.493	683.959	682.892	682.602	681.280	680.792	679.632
<b>35</b>	641.956	641.909	641.712	641.120	640.494	639.566	638.986	637.919	637.095	635.970
<b>40</b>	593.526	593.479	593.143	592.609	591.971	591.240	590.463	589.442	588.468	587.308
<b>45</b>	540.537	540.340	540.200	539.852	539.168	538.588	537.672	536.651	535.816	534.308
<b>50</b>	483.453	483.650	483.453	482.966	482.386	481.899	481.122	480.252	479.231	478.210
<b>55</b>	424.340	424.142	424.050	423.702	423.272	422.542	421.811	420.987	420.106	419.236
<b>60</b>	363.660	363.660	363.567	363.126	362.744	362.152	361.421	360.748	359.867	358.997
<b>65</b>	301.913	301.867	301.774	301.380	301.090	300.707	300.022	299.338	298.561	297.644
<b>70</b>	240.758	240.468	240.422	240.120	239.737	239.296	238.670	238.032	237.301	236.524
<b>75</b>	180.763	180.856	180.612	180.473	180.078	179.649	179.104	178.385	177.747	176.923
<b>80</b>	123.006	122.960	122.809	122.566	122.229	121.788	121.208	120.675	120.037	119.410
<b>85</b>	69.136	69.136	68.985	68.800	68.452	68.022	67.628	67.048	66.364	65.784
<b>90</b>	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>
<b>0</b>	802.639	802.639	802.639	802.639	802.639	802.639	802.639	802.639	802.639
<b>5</b>	800.156	800.156	800.052	800.249	800.156	800.203	800.203	800.156	800.156
<b>10</b>	790.134	790.482	790.528	790.238	790.088	790.041	790.041	789.995	789.844
<b>15</b>	772.827	772.885	772.537	772.200	771.910	771.620	771.470	771.562	771.087
<b>20</b>	748.235	747.794	747.110	746.622	746.193	745.950	745.706	745.358	745.416
<b>25</b>	716.486	715.755	715.221	714.583	713.852	713.377	713.075	712.890	712.936
<b>30</b>	678.658	677.834	676.906	676.036	675.352	674.772	674.238	674.041	673.948
<b>35</b>	635.054	633.882	632.954	631.991	631.063	630.425	629.938	629.555	629.404
<b>40</b>	586.183	585.220	584.292	583.271	582.390	581.763	581.230	580.789	580.986
<b>45</b>	533.391	532.324	531.396	530.468	529.598	528.914	528.229	527.893	527.696
<b>50</b>	477.236	476.018	474.997	474.266	473.245	472.619	472.132	471.691	471.784
<b>55</b>	418.168	417.043	416.220	415.396	414.619	413.888	413.494	413.204	413.250
<b>60</b>	358.173	357.094	356.178	355.401	354.670	353.986	353.406	353.069	352.965
<b>65</b>	296.809	295.893	294.872	293.990	293.120	292.772	292.192	291.995	291.902
<b>70</b>	235.608	234.680	233.902	232.974	232.104	231.420	231.037	230.689	230.643
<b>75</b>	176.192	175.264	174.348	173.466	172.794	172.063	171.622	171.425	171.332
<b>80</b>	118.633	117.798	117.067	116.197	115.617	114.886	114.446	114.156	114.156
<b>85</b>	65.099	64.368	63.742	63.058	62.478	61.990	61.550	61.260	61.167
<b>90</b>	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	294.31	N.A.	12.50
0-30	624.87	N.A.	26.50
0-40	1022.65	N.A.	43.30
0-60	1809.64	N.A.	76.70
0-80	2291.03	N.A.	97.10
0-90	2359.08	N.A.	100.00
10-90	2283.00	N.A.	96.80
20-40	728.34	N.A.	30.90
20-50	1140.57	N.A.	48.30
40-70	1081.5	N.A.	45.80
60-80	481.39	N.A.	20.40
70-80	186.89	N.A.	7.90
80-90	68.05	N.A.	2.90
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2359.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	76.08
10-20	218.23
20-30	330.56
30-40	397.77
40-50	412.24
50-60	374.76
60-70	294.51
70-80	186.89
80-90	68.05
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

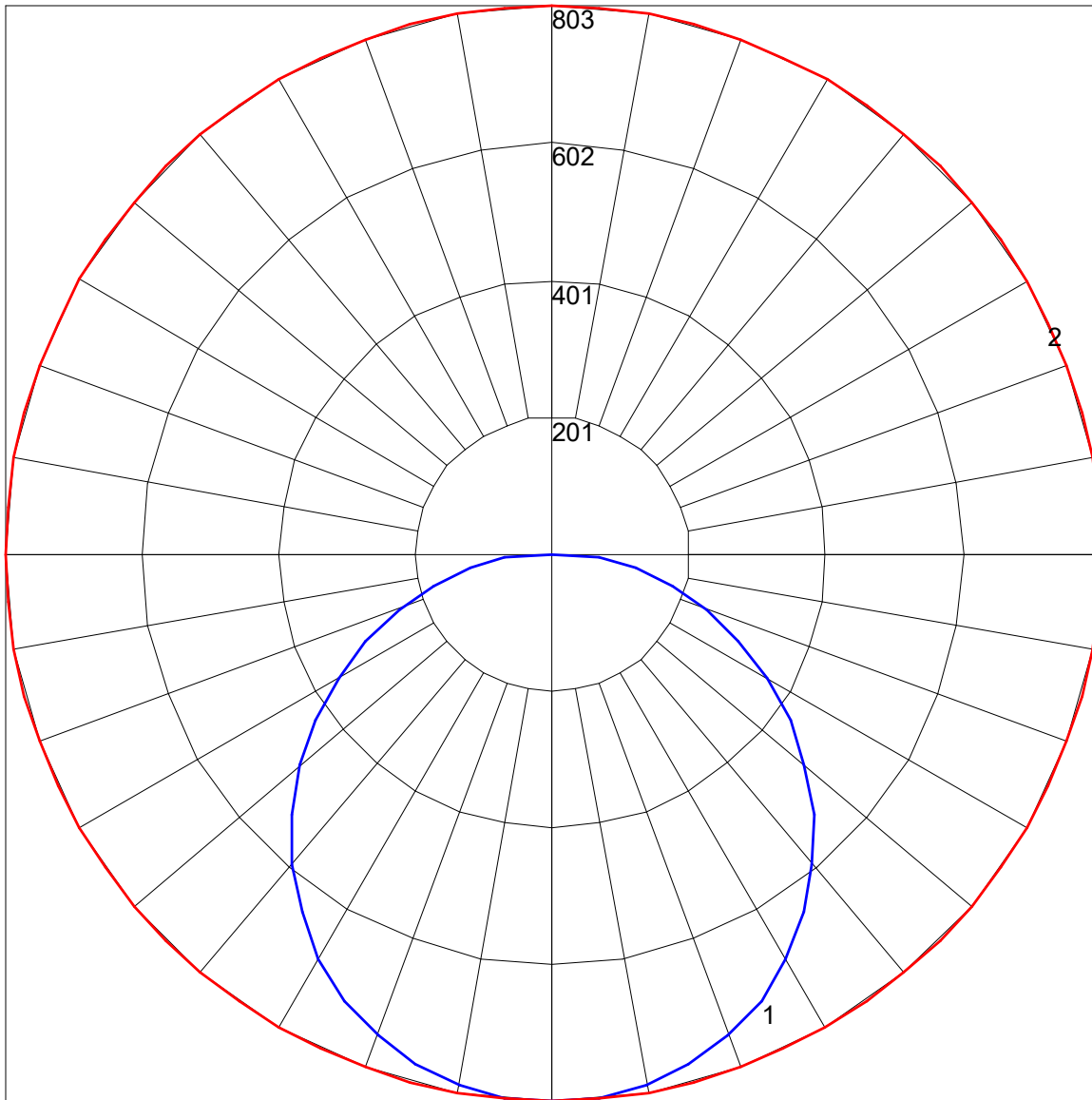
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	94	105	101	97	93	97	93	90	93	90	87	89	87	85	82
2	98	89	82	76	95	88	81	75	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

POLAR GRAPH



Maximum Candela = 802.639 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)