

## IES Report

# ZipTwo® | 707 | Square 3520, Critical Edge | 90 CRI | HO

707-Z2-4-48-XX-XX-X-0-Z-HO-359-F5-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	74	76	78	78
Total Lumens, 4' rail length (1219mm)	2898	2990	3051	3081
Lumens per foot (305mm)	725	747	763	770
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	94	94	94	94

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\_HO\_359\_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-HO-359-F5

[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, zipper board,

[MORE] square 3520, critical edge, high output

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3051
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	39.55
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	20442	20207	19957
55	19784	19546	19267
65	19104	18834	18471
75	18677	18280	17703
85	21213	20184	18768

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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>	1037.895	1037.895	1037.895	1037.895	1037.895	1037.895	1037.895	1037.895	1037.895	1037.895
<b>5</b>	1035.315	1035.120	1035.060	1035.120	1035.000	1034.865	1034.940	1035.000	1034.865	1034.940
<b>10</b>	1023.240	1023.360	1023.300	1023.180	1023.180	1023.180	1022.865	1022.745	1022.490	1022.430
<b>15</b>	1002.750	1002.690	1002.690	1002.555	1002.300	1002.120	1001.670	1000.665	1000.230	1000.170
<b>20</b>	972.315	972.375	972.195	972.000	971.685	971.055	970.425	969.735	968.865	968.295
<b>25</b>	933.585	933.345	932.895	932.775	932.265	931.635	930.630	929.625	929.070	927.615
<b>30</b>	885.930	885.435	885.435	885.120	884.430	883.050	882.675	880.965	880.335	878.835
<b>35</b>	830.115	830.055	829.800	829.035	828.225	827.025	826.275	824.895	823.830	822.375
<b>40</b>	767.490	767.430	766.995	766.305	765.480	764.535	763.530	762.210	760.950	759.450
<b>45</b>	698.970	698.715	698.535	698.085	697.200	696.450	695.265	693.945	692.865	690.915
<b>50</b>	625.155	625.410	625.155	624.525	623.775	623.145	622.140	621.015	619.695	618.375
<b>55</b>	548.715	548.460	548.340	547.890	547.335	546.390	545.445	544.380	543.240	542.115
<b>60</b>	470.250	470.250	470.130	469.560	469.065	468.300	467.355	466.485	465.345	464.220
<b>65</b>	390.405	390.345	390.225	389.715	389.340	388.845	387.960	387.075	386.070	384.885
<b>70</b>	311.325	310.950	310.890	310.500	310.005	309.435	308.625	307.800	306.855	305.850
<b>75</b>	233.745	233.865	233.550	233.370	232.860	232.305	231.600	230.670	229.845	228.780
<b>80</b>	159.060	159.000	158.805	158.490	158.055	157.485	156.735	156.045	155.220	154.410
<b>85</b>	89.400	89.400	89.205	88.965	88.515	87.960	87.450	86.700	85.815	85.065
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. 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>	1037.895	1037.895	1037.895	1037.895	1037.895	1037.895	1037.895	1037.895	1037.895
<b>5</b>	1034.685	1034.685	1034.550	1034.805	1034.685	1034.745	1034.745	1034.685	1034.685
<b>10</b>	1021.725	1022.175	1022.235	1021.860	1021.665	1021.605	1021.605	1021.545	1021.350
<b>15</b>	999.345	999.420	998.970	998.535	998.160	997.785	997.590	997.710	997.095
<b>20</b>	967.545	966.975	966.090	965.460	964.905	964.590	964.275	963.825	963.900
<b>25</b>	926.490	925.545	924.855	924.030	923.085	922.470	922.080	921.840	921.900
<b>30</b>	877.575	876.510	875.310	874.185	873.300	872.550	871.860	871.605	871.485
<b>35</b>	821.190	819.675	818.475	817.230	816.030	815.205	814.575	814.080	813.885
<b>40</b>	757.995	756.750	755.550	754.230	753.090	752.280	751.590	751.020	751.275
<b>45</b>	689.730	688.350	687.150	685.950	684.825	683.940	683.055	682.620	682.365
<b>50</b>	617.115	615.540	614.220	613.275	611.955	611.145	610.515	609.945	610.065
<b>55</b>	540.735	539.280	538.215	537.150	536.145	535.200	534.690	534.315	534.375
<b>60</b>	463.155	461.760	460.575	459.570	458.625	457.740	456.990	456.555	456.420
<b>65</b>	383.805	382.620	381.300	380.160	379.035	378.585	377.835	377.580	377.460
<b>70</b>	304.665	303.465	302.460	301.260	300.135	299.250	298.755	298.305	298.245
<b>75</b>	227.835	226.635	225.450	224.310	223.440	222.495	221.925	221.670	221.550
<b>80</b>	153.405	152.325	151.380	150.255	149.505	148.560	147.990	147.615	147.615
<b>85</b>	84.180	83.235	82.425	81.540	80.790	80.160	79.590	79.215	79.095
<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	380.57	N.A.	12.50
0-30	808.03	N.A.	26.50
0-40	1322.39	N.A.	43.30
0-60	2340.05	N.A.	76.70
0-80	2962.54	N.A.	97.10
0-90	3050.53	N.A.	100.00
10-90	2952.16	N.A.	96.80
20-40	941.81	N.A.	30.90
20-50	1474.88	N.A.	48.30
40-70	1398.49	N.A.	45.80
60-80	622.49	N.A.	20.40
70-80	241.66	N.A.	7.90
80-90	88.00	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	3050.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	98.37
10-20	282.20
20-30	427.45
30-40	514.36
40-50	533.06
50-60	484.60
60-70	380.83
70-80	241.66
80-90	88.00
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

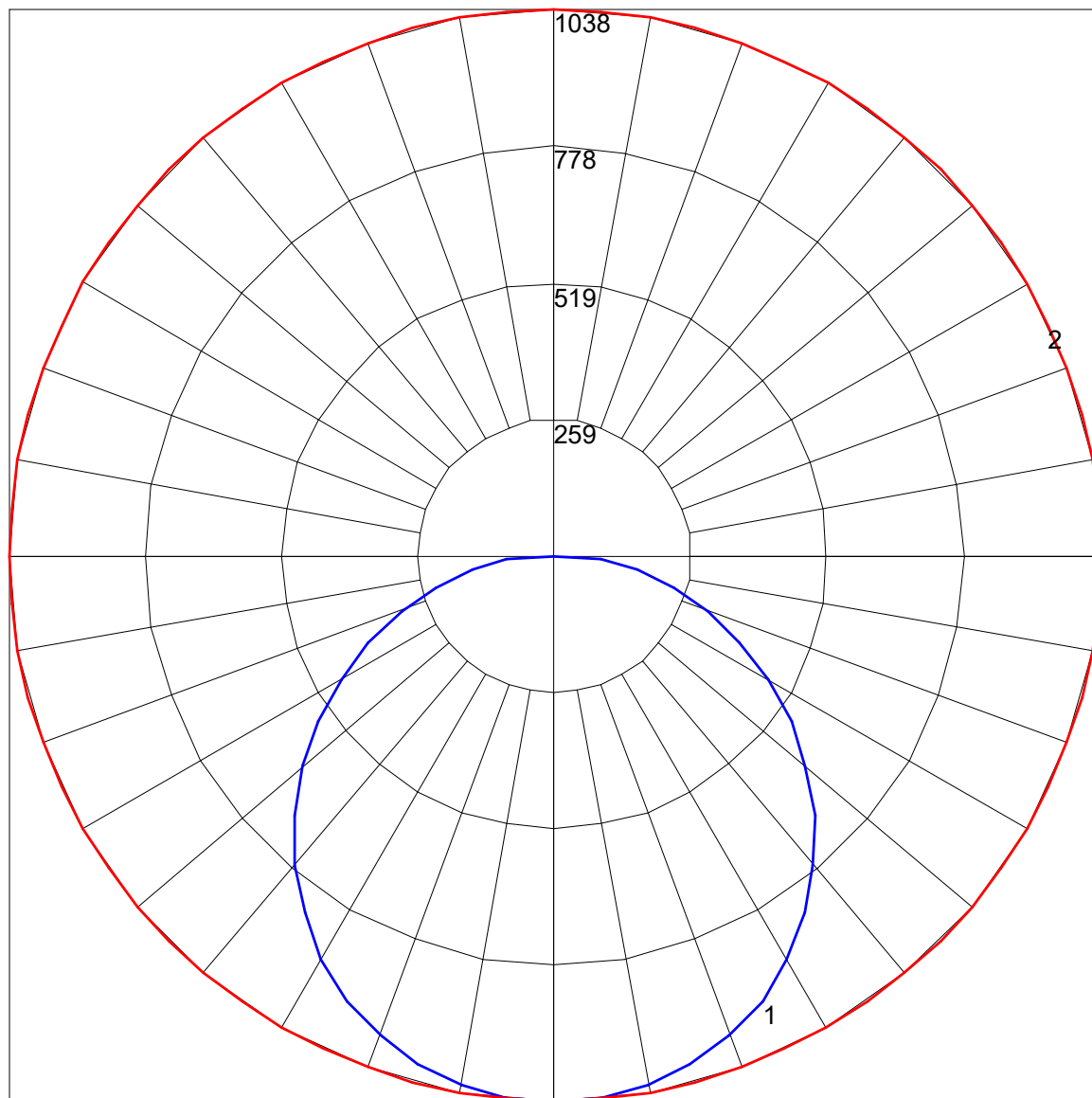
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	96	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 = 1037.895 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.)