

## IES Report

# ZipTwo® | 707 | Square 3572, Diffuse | 80 CRI | LO

707-Z2-4-48-XX-XX-X-0-Z-LO-35-H6-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	132	136	138	138
Total Lumens, 4' rail length (1219mm)	1951	2013	2054	2054
Lumens per foot (305mm)	488	503	513	513
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\_H6\_WH.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011201 (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-H6-WH

[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board, square 3572,

[MORE] diffuse lens, low output

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2054
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	14.89
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	2.40
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	2.08
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.13 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.23 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3700	3383	3369
55	3670	3323	3208
65	3517	3199	3057
75	3261	3041	3129
85	2989	2881	3073

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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>	187.92	187.92	187.92	187.92	187.92	187.92	187.92	187.92	187.92	187.92
<b>5</b>	197.20	197.20	196.62	196.62	196.04	195.46	194.30	193.72	192.56	191.40
<b>10</b>	218.08	218.08	217.50	216.92	215.18	214.02	211.70	209.96	207.64	204.74
<b>15</b>	240.12	240.12	238.96	237.80	235.48	233.16	229.68	226.20	222.14	218.08
<b>20</b>	262.16	261.58	260.42	258.10	255.20	251.72	247.08	241.86	236.06	229.68
<b>25</b>	283.62	283.04	281.30	278.40	274.34	269.70	263.32	256.36	248.82	240.12
<b>30</b>	303.92	303.34	301.02	297.54	292.32	285.94	278.40	269.70	259.84	249.40
<b>35</b>	322.48	321.90	319.00	314.36	308.56	300.44	291.16	281.30	269.12	256.94
<b>40</b>	338.14	337.56	334.08	328.86	321.90	312.62	302.18	290.00	276.66	262.16
<b>45</b>	350.32	349.16	345.68	339.88	331.76	321.32	309.72	295.80	280.72	265.06
<b>50</b>	357.28	356.12	352.64	346.26	337.56	325.96	313.20	298.70	282.46	265.06
<b>55</b>	359.02	357.28	353.80	347.42	338.14	326.54	312.62	297.54	280.14	262.16
<b>60</b>	354.38	353.22	349.16	342.78	333.50	321.90	307.98	292.32	274.34	255.78
<b>65</b>	344.52	343.36	339.30	332.92	324.22	312.62	299.28	283.04	265.64	246.50
<b>70</b>	329.44	328.28	324.80	319.00	310.30	299.28	286.52	270.86	253.46	234.90
<b>75</b>	310.30	309.72	306.24	300.44	292.90	282.46	270.28	255.78	239.54	221.56
<b>80</b>	289.42	288.84	285.94	280.72	273.76	263.90	252.88	238.96	223.30	206.48
<b>85</b>	267.38	266.80	264.48	259.84	253.46	244.76	234.32	221.56	206.48	191.40
<b>90</b>	247.08	245.92	243.60	239.54	233.74	225.62	216.34	204.16	191.40	176.32
<b>95</b>	231.42	230.84	228.52	225.04	219.82	212.28	203.58	193.14	180.96	166.46
<b>100</b>	219.24	218.08	216.34	212.86	208.22	201.26	194.30	183.86	171.68	158.92
<b>105</b>	207.06	206.48	204.74	201.84	196.62	191.40	183.86	174.58	163.56	150.80
<b>110</b>	196.04	195.46	193.72	191.40	186.76	180.96	173.42	164.72	154.86	143.26
<b>115</b>	185.60	185.02	183.28	180.38	176.32	171.10	164.14	155.44	145.58	135.14
<b>120</b>	174.00	173.42	171.68	169.36	165.30	160.08	153.70	145.58	136.30	126.44
<b>125</b>	161.82	161.82	160.08	157.76	153.70	149.06	142.68	135.14	126.44	117.16
<b>130</b>	149.64	149.06	147.90	145.58	141.52	136.88	131.66	124.70	116.58	106.72
<b>135</b>	136.88	136.30	135.14	132.82	129.34	125.28	119.48	112.52	103.24	93.96
<b>140</b>	122.96	122.38	121.22	119.48	116.00	111.94	106.14	98.02	89.32	81.20
<b>145</b>	109.04	108.46	107.30	105.56	102.66	97.44	89.90	82.94	75.98	69.60
<b>150</b>	93.96	93.38	92.80	91.06	87.00	80.04	74.82	69.02	64.38	59.74
<b>155</b>	78.88	78.30	77.72	74.82	69.02	64.38	59.74	56.84	53.94	49.88
<b>160</b>	62.64	62.64	61.48	56.26	52.20	48.72	46.98	44.66	41.76	37.70
<b>165</b>	45.24	45.24	41.18	38.28	35.96	34.80	34.22	32.48	29.00	26.68
<b>170</b>	28.42	26.68	23.20	21.46	22.04	22.04	21.46	20.30	19.14	17.40
<b>175</b>	12.76	10.44	9.86	11.02	11.60	11.02	11.02	11.02	10.44	9.86
<b>180</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**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>	187.92	187.92	187.92	187.92	187.92	187.92	187.92	187.92	187.92
<b>5</b>	190.24	189.08	187.92	187.34	186.76	186.76	187.34	187.34	187.34
<b>10</b>	201.84	198.94	195.46	192.56	189.08	185.60	183.86	183.86	183.86
<b>15</b>	212.86	208.22	203.00	197.78	192.56	187.34	181.54	179.22	179.80
<b>20</b>	223.30	216.34	208.80	201.26	194.30	186.76	179.22	173.42	173.42
<b>25</b>	231.42	222.14	212.86	203.00	193.72	184.44	175.16	165.88	165.30
<b>30</b>	238.38	227.36	215.76	203.58	191.98	180.38	169.36	158.34	155.44
<b>35</b>	243.60	230.26	216.34	202.42	189.08	175.16	162.40	150.22	145.00
<b>40</b>	247.08	231.42	215.76	199.52	183.86	168.78	154.28	140.36	133.98
<b>45</b>	248.24	230.26	212.86	194.88	178.06	161.24	145.00	130.50	121.80
<b>50</b>	246.50	227.36	208.22	189.08	170.52	152.54	135.14	119.48	109.04
<b>55</b>	242.44	222.14	201.84	181.54	161.82	142.68	124.12	107.88	96.28
<b>60</b>	235.48	214.60	193.72	172.26	151.96	132.24	113.10	95.70	83.52

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	226.20	204.74	183.86	162.40	141.52	120.64	101.50	84.10	70.18
<b>70</b>	214.60	193.72	172.84	150.80	129.92	109.04	89.32	71.34	56.84
<b>75</b>	198.94	182.12	161.24	139.20	118.32	97.44	77.72	59.16	47.56
<b>80</b>	187.92	168.20	147.90	126.44	106.14	85.84	66.12	48.14	32.48
<b>85</b>	172.84	153.70	134.56	114.26	93.96	73.66	55.10	38.28	21.46
<b>90</b>	158.92	140.94	121.80	101.50	82.36	62.06	45.24	26.10	11.02
<b>95</b>	150.80	133.40	115.42	96.28	77.72	59.16	43.50	23.78	9.28
<b>100</b>	143.84	127.60	110.78	92.80	75.40	57.42	42.92	23.20	8.70
<b>105</b>	137.46	121.80	106.14	88.74	71.92	54.52	38.86	21.46	8.12
<b>110</b>	129.92	116.00	100.34	84.10	68.44	52.20	37.12	19.14	8.12
<b>115</b>	122.38	109.04	95.12	80.04	64.96	49.88	34.22	17.40	7.54
<b>120</b>	114.84	102.08	88.74	74.82	60.90	46.40	30.74	15.08	6.96
<b>125</b>	106.72	94.54	81.78	68.44	55.10	41.76	26.68	13.34	6.96
<b>130</b>	95.70	84.10	72.50	60.90	48.72	35.96	22.62	11.60	6.38
<b>135</b>	84.10	74.24	63.80	53.36	42.34	30.74	19.14	10.44	6.38
<b>140</b>	72.50	64.38	55.68	45.82	35.96	26.10	15.66	9.28	6.38
<b>145</b>	63.22	56.26	47.56	38.28	29.58	20.88	13.34	8.12	5.80
<b>150</b>	54.52	46.98	39.44	31.90	24.36	17.40	11.60	7.54	5.80
<b>155</b>	43.50	37.70	31.90	25.52	20.30	15.08	10.44	6.96	5.80
<b>160</b>	33.06	29.00	24.36	20.30	16.24	12.76	9.28	6.38	5.80
<b>165</b>	23.78	20.88	18.56	15.66	12.76	9.86	7.54	5.80	5.80
<b>170</b>	16.24	14.50	12.76	11.02	9.28	7.54	6.38	5.80	5.80
<b>175</b>	9.28	8.70	7.54	6.96	6.38	5.80	5.80	5.22	5.22
<b>180</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	79.52	N.A.	3.90
0-30	187.79	N.A.	9.10
0-40	343.44	N.A.	16.70
0-60	762.70	N.A.	37.10
0-80	1209.01	N.A.	58.90
0-90	1398.47	N.A.	68.10
10-90	1379.83	N.A.	67.20
20-40	263.91	N.A.	12.80
20-50	460.28	N.A.	22.40
40-70	648.96	N.A.	31.60
60-80	446.31	N.A.	21.70
70-80	216.61	N.A.	10.50
80-90	189.46	N.A.	9.20
90-110	305.53	N.A.	14.90
90-120	424.88	N.A.	20.70
90-130	518.33	N.A.	25.20
90-150	625.77	N.A.	30.50
90-180	655.52	N.A.	31.90
110-180	349.99	N.A.	17.00
0-180	2053.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	18.64
10-20	60.88
20-30	108.27
30-40	155.65
40-50	196.37
50-60	222.90
60-70	229.70
70-80	216.61
80-90	189.46
90-100	163.07
100-110	142.45
110-120	119.35
120-130	93.45
130-140	66.23
140-150	41.21
150-160	21.24
160-170	7.50
170-180	1.01

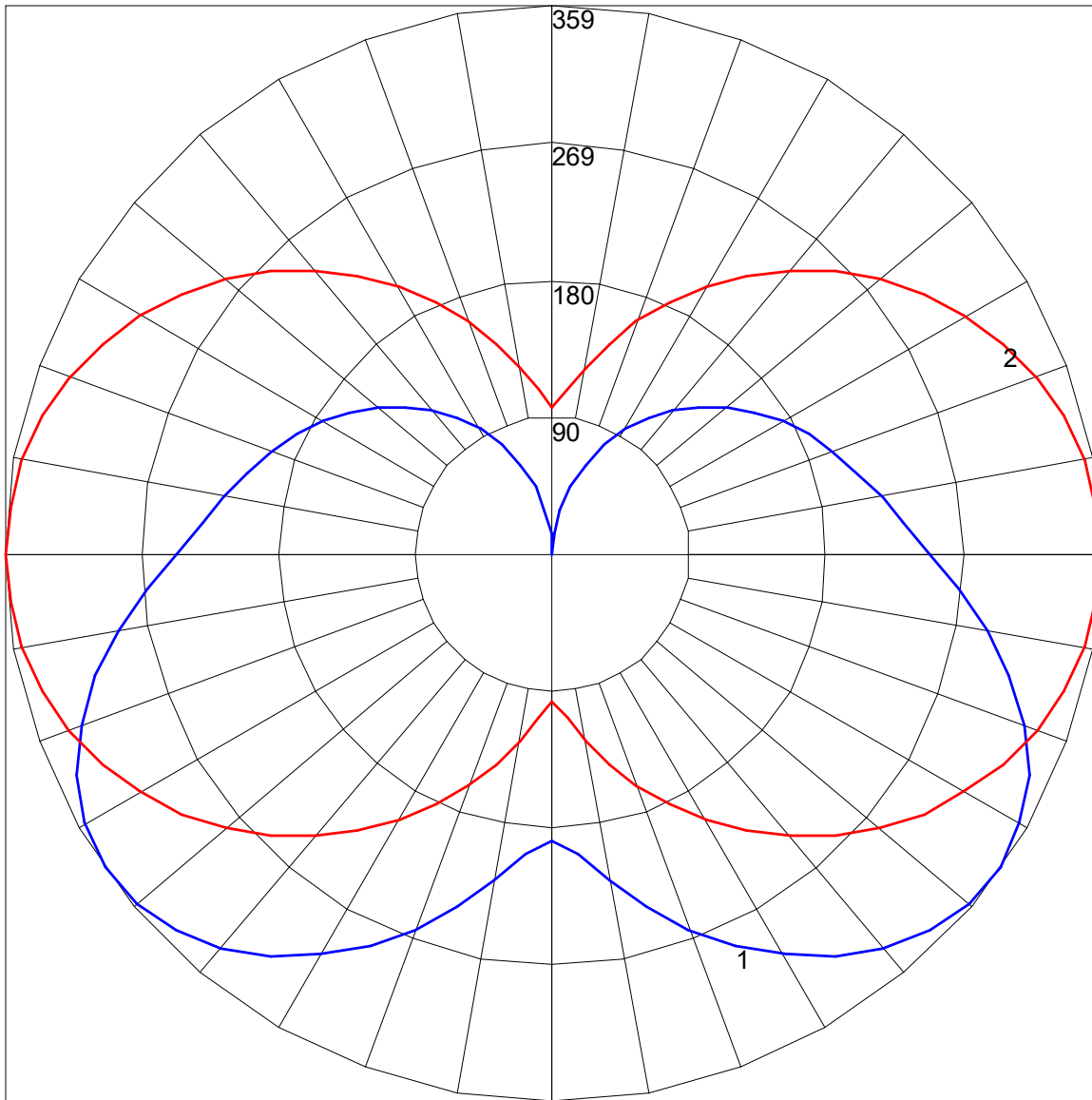
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	111	111	111	105	105	105	105	93	93	93	83	83	83	73	73	73	68
1	97	91	85	80	91	85	80	75	75	71	67	66	62	59	57	54	52	48
2	86	76	68	61	81	72	64	58	63	57	52	55	50	46	47	44	40	36
3	78	66	56	49	72	62	53	46	54	47	41	47	41	37	40	36	32	28
4	70	57	47	40	65	54	45	38	47	40	34	41	35	30	35	30	26	23
5	64	50	40	33	60	47	38	32	41	34	28	36	30	25	31	26	22	19
6	59	45	35	28	55	42	33	27	37	29	24	32	26	21	28	23	19	16
7	54	40	31	24	50	38	29	23	33	26	21	29	23	18	25	20	16	14
8	50	36	27	21	47	34	26	20	30	23	18	26	20	16	23	18	14	12
9	47	33	24	19	43	31	23	18	27	21	16	24	18	14	21	16	12	10
10	43	30	22	16	41	28	21	16	25	19	14	22	17	13	19	15	11	9

POLAR GRAPH



Maximum Candela = 359.02 Located At Horizontal Angle = 0, Vertical Angle = 55  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (55) (Through Max. Cd.)