

## IES Report

ZipThree® | Ceiling Cable | 707 | Symmetric, up | Soft Diffuse, down | 90 CRI | LO

707-Z3-XX-4-48-CC-XX-XX-XX-X-0-Z-LO-359-U1D2-0-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	99	102	104	105
Total Lumens, 4' rail length (1219mm)	2921	3013	3075	3106
Lumens per foot (305mm)	730	753	769	776
Lumens per foot UP (305mm)	412	425	433	438
Lumens per foot DOWN (305mm)	319	329	335	339
Input Power (W), 4' rail length (1219mm)	29.8	29.8	29.8	29.8
Watts per foot (305mm)	7.5	7.5	7.5	7.5
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](http://vode.com).



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : VODE\_707\_Z3\_CC\_LO\_359\_U1D2.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911551 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] VODE LIGHTING

[LUMCAT] 707-Z3-48-Z-CC-LO-359-U1D2-AL

[LUMINAIRE] ZipThree LED Suspended, 48", 3500K, 90 CRI, zipper board, symmetric lens up/soft diffuse lens down,

[MORE] low output, clear anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3075
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	29.78
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)	0.26 ft
Luminous Width (90-270)	3.98 ft
Luminous Height	0.02 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4237	4293	4504
55	3983	4058	4344
65	3609	3707	4087
75	2995	3103	3606
85	1777	1901	2763

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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>	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0
<b>5</b>	459.5	459.5	459.5	459.5	459.5	459.5	460.0	459.5	459.5	459.5
<b>10</b>	453.5	454.0	454.0	453.5	453.5	453.5	453.5	453.5	453.5	453.5
<b>15</b>	444.0	444.0	444.0	444.0	444.0	444.0	444.0	443.5	444.0	444.0
<b>20</b>	430.0	430.0	430.0	430.0	430.0	430.0	430.0	429.5	429.5	429.5
<b>25</b>	412.5	412.5	412.5	412.5	412.5	412.5	412.0	412.0	412.0	412.0
<b>30</b>	391.5	391.5	391.5	391.5	391.5	391.0	391.0	391.0	391.0	390.5
<b>35</b>	367.0	367.5	367.5	367.0	367.0	367.0	367.0	367.0	366.5	366.5
<b>40</b>	340.0	340.0	340.0	340.0	340.0	340.0	339.5	339.5	339.5	339.0
<b>45</b>	310.5	310.5	310.5	310.0	310.0	310.0	310.0	309.5	309.5	309.0
<b>50</b>	278.0	278.0	278.0	278.0	278.0	277.5	277.5	277.0	277.0	277.0
<b>55</b>	244.0	244.0	244.0	244.0	244.0	243.5	243.5	243.0	243.0	242.5
<b>60</b>	208.0	208.0	208.0	208.0	208.0	207.5	207.5	207.5	207.0	207.0
<b>65</b>	171.0	171.0	171.0	171.0	171.0	170.5	170.5	170.0	170.0	169.5
<b>70</b>	133.5	133.5	133.5	133.0	133.0	133.0	132.5	132.5	132.0	132.0
<b>75</b>	96.0	96.0	96.0	95.5	95.5	95.5	95.0	95.0	94.5	94.0
<b>80</b>	60.0	60.0	60.0	60.0	59.5	59.5	59.0	59.0	58.5	58.0
<b>85</b>	28.0	28.0	28.0	28.0	28.0	27.5	27.5	27.5	27.0	26.5
<b>90</b>	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
<b>95</b>	18.5	18.5	18.5	18.5	19.0	19.0	19.0	19.0	19.0	19.0
<b>100</b>	42.0	42.5	42.5	42.5	43.0	43.5	43.5	44.0	44.5	44.5
<b>105</b>	70.5	70.5	71.0	71.5	72.0	72.5	73.0	74.0	74.5	76.0
<b>110</b>	104.0	104.5	105.0	106.0	107.0	109.0	111.0	113.0	115.0	117.5
<b>115</b>	150.0	150.5	151.0	152.5	154.0	156.5	159.0	162.5	167.0	172.5
<b>120</b>	205.0	205.0	206.5	208.5	211.5	215.0	219.5	224.5	229.5	234.5
<b>125</b>	273.0	273.5	275.0	277.0	280.0	284.0	287.5	291.5	295.0	298.5
<b>130</b>	345.5	345.5	346.5	348.0	350.0	352.5	355.0	357.5	360.5	363.0
<b>135</b>	412.5	413.0	413.5	414.5	416.0	417.5	419.5	421.5	423.0	425.0
<b>140</b>	473.5	473.5	474.0	474.5	475.5	476.5	478.0	479.5	481.0	482.0
<b>145</b>	526.0	526.5	526.5	527.0	527.5	528.5	529.0	530.0	531.0	532.0
<b>150</b>	570.5	570.5	571.0	571.0	571.5	572.0	572.5	573.0	573.5	574.0
<b>155</b>	606.5	606.5	606.5	607.0	607.0	607.5	607.5	608.0	608.0	608.5
<b>160</b>	635.0	635.0	635.0	635.0	635.0	635.0	635.5	635.5	635.5	636.0
<b>165</b>	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.5
<b>170</b>	670.0	670.0	670.0	670.0	670.0	670.0	670.0	670.5	670.5	670.0
<b>175</b>	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.0
<b>180</b>	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0

**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>	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0
<b>5</b>	459.5	459.5	459.5	459.5	459.5	459.5	459.5	459.5	459.5
<b>10</b>	453.5	453.5	453.5	453.5	453.5	453.5	453.5	453.5	453.5
<b>15</b>	444.0	443.5	443.5	443.5	443.5	443.0	443.5	443.5	443.5
<b>20</b>	429.5	429.5	429.5	429.5	429.5	429.0	429.0	429.0	429.0
<b>25</b>	412.0	411.5	411.5	411.5	411.5	411.5	411.5	411.5	411.0
<b>30</b>	390.5	390.5	390.0	390.0	390.0	390.0	390.0	390.0	390.0
<b>35</b>	366.0	366.0	365.5	365.5	365.5	365.5	365.5	365.5	365.5
<b>40</b>	339.0	338.5	338.5	338.5	338.0	338.0	338.0	338.0	338.0
<b>45</b>	309.0	308.5	308.5	308.5	308.0	308.0	308.0	308.0	308.0
<b>50</b>	276.5	276.5	276.5	276.0	276.0	276.0	275.5	275.5	275.5
<b>55</b>	242.5	242.5	242.5	242.0	242.0	241.5	241.5	241.5	241.5
<b>60</b>	206.5	206.5	206.0	206.0	205.5	205.5	205.5	205.5	205.5

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	169.5	169.0	169.0	168.5	168.5	168.5	168.0	168.0	168.0
<b>70</b>	131.5	131.0	130.5	130.5	130.0	130.0	130.0	129.5	129.5
<b>75</b>	93.5	93.5	93.0	92.5	92.0	92.0	91.5	91.5	91.5
<b>80</b>	58.0	57.5	57.0	56.5	56.0	55.5	55.5	55.0	55.0
<b>85</b>	26.5	26.0	25.5	25.5	25.0	25.0	24.5	24.5	24.5
<b>90</b>	2.5	2.5	2.5	2.5	2.0	2.0	2.0	2.0	2.0
<b>95</b>	19.0	19.0	19.0	18.5	18.5	18.0	18.5	19.5	19.5
<b>100</b>	44.5	44.5	45.0	45.5	47.0	50.0	51.0	51.0	51.0
<b>105</b>	78.0	79.5	82.0	86.0	89.0	90.5	91.0	91.0	91.0
<b>110</b>	121.5	126.5	131.0	134.5	136.0	137.5	138.0	138.5	138.5
<b>115</b>	177.5	182.0	185.0	187.5	189.0	190.5	191.0	191.5	191.5
<b>120</b>	238.0	241.5	244.0	246.0	248.0	249.0	250.0	250.5	250.5
<b>125</b>	301.5	304.0	306.5	308.5	310.0	311.5	312.0	312.5	313.0
<b>130</b>	365.5	367.5	369.5	371.5	372.5	374.0	374.5	375.0	375.5
<b>135</b>	427.0	429.0	430.5	432.0	433.0	434.0	434.5	435.0	435.0
<b>140</b>	483.5	485.0	486.0	487.0	488.0	488.5	489.0	489.0	489.5
<b>145</b>	533.0	534.0	534.5	535.5	536.0	536.5	536.5	536.5	536.5
<b>150</b>	575.0	575.5	576.0	576.0	576.5	577.0	577.0	577.0	577.0
<b>155</b>	609.0	609.0	609.5	609.5	610.0	610.0	610.0	610.5	610.0
<b>160</b>	636.0	636.0	636.0	636.5	636.5	636.5	636.5	636.5	636.5
<b>165</b>	656.5	656.5	656.5	656.5	656.5	656.5	656.5	656.5	656.5
<b>170</b>	670.5	670.5	670.5	670.5	670.5	670.5	670.5	670.5	670.5
<b>175</b>	678.0	678.0	678.0	678.0	678.0	678.0	678.0	678.5	678.5
<b>180</b>	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	168.87	N.A.	5.50
0-30	358.70	N.A.	11.70
0-40	587.87	N.A.	19.10
0-60	1043.21	N.A.	33.90
0-80	1310.56	N.A.	42.60
0-90	1341.39	N.A.	43.60
10-90	1297.72	N.A.	42.20
20-40	419.00	N.A.	13.60
20-50	657.43	N.A.	21.40
40-70	623.12	N.A.	20.30
60-80	267.35	N.A.	8.70
70-80	99.57	N.A.	3.20
80-90	30.83	N.A.	1.00
90-110	108.70	N.A.	3.50
90-120	280.51	N.A.	9.10
90-130	545.04	N.A.	17.70
90-150	1203.66	N.A.	39.10
90-180	1733.44	N.A.	56.40
110-180	1624.74	N.A.	52.80
0-180	3074.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	43.67
10-20	125.20
20-30	189.83
30-40	229.17
40-50	238.43
50-60	216.91
60-70	167.78
70-80	99.57
80-90	30.83
90-100	23.22
100-110	85.48
110-120	171.81
120-130	264.53
130-140	326.68
140-150	331.94
150-160	280.14
160-170	185.17
170-180	64.47

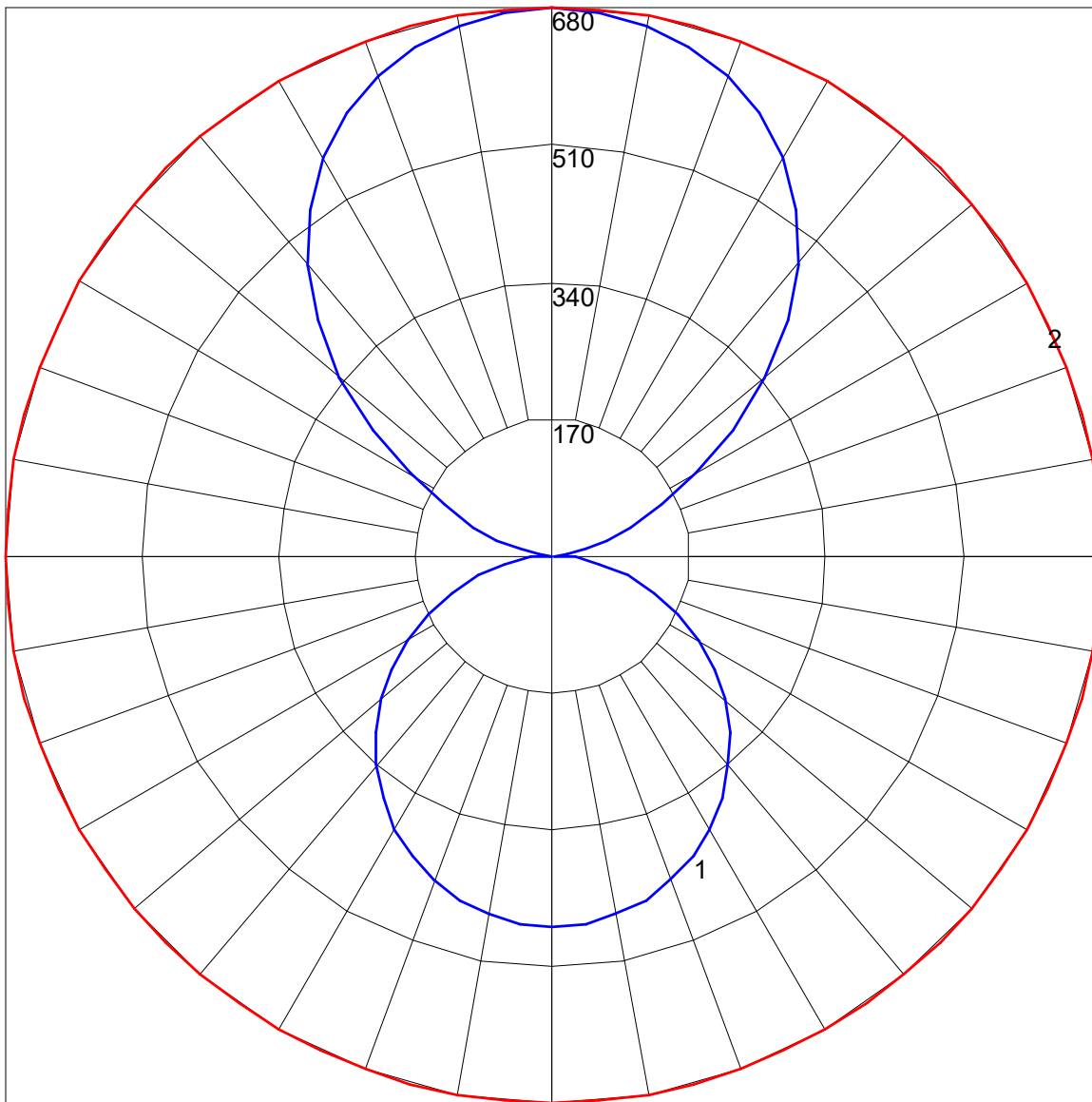
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	44
1	96	92	88	84	88	84	81	78	70	67	65	56	55	53	44	43	42	36
2	87	80	74	68	80	73	68	63	61	57	53	49	46	44	38	37	35	30
3	80	70	63	57	72	64	58	53	53	49	45	43	40	37	34	32	30	25
4	73	62	54	48	66	57	50	44	47	42	38	38	35	31	30	28	25	21
5	67	55	47	41	61	51	43	38	42	37	33	34	30	27	27	24	22	19
6	61	49	41	35	56	45	38	33	38	32	28	31	27	24	25	22	19	16
7	57	44	36	31	52	41	34	29	34	29	25	28	24	21	22	19	17	14
8	52	40	32	27	48	37	30	25	31	26	22	26	22	18	20	17	15	13
9	49	37	29	24	44	34	27	22	28	23	19	24	19	17	19	16	14	11
10	45	33	26	21	42	31	24	20	26	21	18	22	18	15	17	14	12	10

POLAR GRAPH



Maximum Candela = 680 Located At Horizontal Angle = 0, Vertical Angle = 180  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)