

**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-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	83	86	88	90
Total Lumens, 4' rail length (1219mm)	2556	2637	2691	2744
Lumens per foot (305mm)	639	659	673	686
Lumens per foot UP (305mm)	1410	1455	1485	1514
Lumens per foot DOWN (305mm)	1146	1182	1206	1230
Input Power (W), 4' rail length (1219mm)	30.8	30.8	30.8	30.8
Watts per foot (305mm)	7.8	7.8	7.8	7.8
CRI*	96	96	96	96

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](#).

\* R9: ~74 @ 3500K



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707-Z3-CC-LO-359-U1D2-BL.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L081800703 (SOURCE REPORT FOR REFERENCE)  
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB  
[ISSUEDATE] 8/15/2018  
[MANUFAC] Vode Lighting  
[LUMCAT] 707-Z3-CC-Z-LO-359-U1D2-BL  
[LUMINAIRE] ZipThree Suspended, 48", 3500K, 90 CRI, zipper board,  
[MORE] symmetric lens up/soft diffuse lens down, low output, black anodized finish  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2691
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	30.82
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)	0.25 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.02 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3922	3981	4177
55	3668	3738	4002
65	3323	3404	3739
75	2784	2868	3263
85	1708	1828	2509

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>	420.5	420.5	420.5	420.5	420.5	420.5	420.5	420.5	420.5	420.5
<b>5</b>	418.5	419.0	418.5	419.0	418.5	418.5	419.0	419.0	418.5	418.5
<b>10</b>	413.0	413.0	413.0	413.0	413.0	413.0	413.0	413.0	413.0	413.0
<b>15</b>	403.5	403.5	403.5	403.5	403.5	403.5	403.5	403.5	403.5	403.0
<b>20</b>	390.5	390.5	390.5	390.5	390.5	390.0	390.0	390.0	390.0	390.0
<b>25</b>	373.5	373.5	373.5	373.5	373.5	373.5	373.5	373.5	373.0	373.0
<b>30</b>	354.0	354.0	354.0	354.0	354.0	353.5	353.5	353.5	353.0	353.0
<b>35</b>	331.5	331.5	331.5	331.5	331.0	331.0	331.0	331.0	330.5	330.5
<b>40</b>	306.0	306.0	306.0	306.0	306.0	306.0	305.5	305.5	305.0	305.0
<b>45</b>	278.5	278.5	278.5	278.5	278.5	278.0	278.0	277.5	277.5	277.5
<b>50</b>	249.0	249.0	249.0	249.0	249.0	248.5	248.5	248.5	248.0	248.0
<b>55</b>	218.0	218.0	218.0	218.0	218.0	217.5	217.5	217.0	217.0	216.5
<b>60</b>	186.0	186.0	186.0	185.5	185.5	185.5	185.0	185.0	184.5	184.0
<b>65</b>	153.0	153.0	153.0	153.0	152.5	152.5	152.0	152.0	151.5	151.0
<b>70</b>	120.0	120.0	120.0	119.5	119.5	119.0	119.0	118.5	118.0	117.5
<b>75</b>	87.0	87.0	87.0	87.0	86.5	86.0	86.0	85.5	85.0	84.5
<b>80</b>	55.5	55.5	55.5	55.5	55.0	55.0	54.5	54.0	53.5	53.0
<b>85</b>	26.5	26.5	26.5	26.0	26.0	26.0	25.5	25.5	25.0	25.0
<b>90</b>	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
<b>95</b>	12.5	12.5	12.5	12.5	12.5	13.0	13.0	13.0	13.5	13.5
<b>100</b>	32.5	32.5	32.5	33.0	33.0	33.5	34.0	35.0	35.5	36.0
<b>105</b>	58.0	58.0	58.5	59.0	59.5	60.5	61.5	62.5	64.0	65.5
<b>110</b>	90.5	90.5	91.0	92.0	93.0	94.5	96.0	97.5	99.5	101.5
<b>115</b>	130.5	130.5	131.0	132.0	133.5	135.5	137.5	139.5	142.0	144.5
<b>120</b>	177.0	177.5	178.0	179.5	181.0	183.0	185.5	188.0	191.0	194.0
<b>125</b>	230.5	230.5	231.5	232.5	234.5	236.5	239.5	242.0	245.5	249.0
<b>130</b>	287.5	288.0	288.5	290.0	292.0	294.0	296.5	299.5	303.0	306.0
<b>135</b>	346.0	346.5	347.0	348.5	350.0	352.0	354.5	357.0	359.5	362.5
<b>140</b>	402.5	402.5	403.0	404.0	405.5	407.0	408.5	410.5	412.5	414.5
<b>145</b>	452.0	452.0	452.5	453.0	454.0	455.0	456.5	457.5	459.0	460.0
<b>150</b>	494.0	494.0	494.0	494.5	495.0	495.5	496.5	497.0	498.0	498.5
<b>155</b>	527.0	527.0	527.5	527.5	528.0	528.5	528.5	529.0	529.5	530.0
<b>160</b>	553.5	553.5	553.5	553.5	554.0	554.0	554.5	554.5	555.0	555.5
<b>165</b>	573.5	573.5	573.5	573.5	573.5	574.0	574.0	574.5	575.0	575.0
<b>170</b>	588.0	588.0	588.5	588.5	588.5	588.5	588.5	589.0	589.0	589.5
<b>175</b>	597.5	597.5	597.5	597.5	597.5	597.5	597.5	597.5	598.0	598.0
<b>180</b>	600.5	600.5	600.5	600.5	600.5	600.5	600.5	600.5	600.5	600.5

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>	420.5	420.5	420.5	420.5	420.5	420.5	420.5	420.5	420.5
<b>5</b>	418.5	418.5	418.5	418.5	419.0	418.5	418.5	418.5	418.5
<b>10</b>	413.0	413.0	413.0	413.0	413.0	413.0	413.0	413.0	413.0
<b>15</b>	403.0	403.0	403.0	403.0	403.0	403.0	403.0	403.0	403.0
<b>20</b>	390.0	390.0	389.5	389.5	389.5	389.5	389.5	389.5	389.5
<b>25</b>	373.0	373.0	372.5	372.5	372.5	372.5	372.5	372.5	372.5
<b>30</b>	353.0	352.5	352.5	352.5	352.5	352.5	352.0	352.0	352.0
<b>35</b>	330.0	330.0	330.0	329.5	329.5	329.5	329.5	329.5	329.5
<b>40</b>	305.0	304.5	304.5	304.0	304.0	304.0	304.0	304.0	303.5
<b>45</b>	277.0	277.0	276.5	276.5	276.0	276.0	276.0	276.0	276.0
<b>50</b>	247.5	247.5	247.0	247.0	246.5	246.5	246.5	246.5	246.5
<b>55</b>	216.5	216.0	216.0	215.5	215.5	215.0	215.0	215.0	215.0
<b>60</b>	184.0	183.5	183.0	183.0	182.5	182.5	182.5	182.5	182.0

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	150.5	150.0	150.0	149.5	149.0	149.0	148.5	148.5	148.5
<b>70</b>	117.0	116.5	116.0	115.5	115.0	114.5	114.5	114.0	114.0
<b>75</b>	84.0	83.5	83.0	82.0	81.5	81.0	80.5	80.5	80.0
<b>80</b>	52.5	52.0	51.5	50.5	50.0	49.5	49.0	48.5	48.5
<b>85</b>	24.5	24.0	23.5	23.0	22.5	22.0	22.0	21.5	21.5
<b>90</b>	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
<b>95</b>	14.0	14.0	14.0	14.5	14.5	14.5	14.5	14.5	14.5
<b>100</b>	37.0	37.5	38.5	39.0	39.5	39.5	40.0	40.0	40.0
<b>105</b>	66.5	68.0	69.5	70.5	71.5	72.0	72.5	72.5	72.5
<b>110</b>	103.5	105.5	107.5	109.0	110.5	111.5	112.0	112.5	112.5
<b>115</b>	147.5	150.0	152.0	154.5	156.0	157.0	158.0	158.5	158.5
<b>120</b>	197.0	200.0	203.0	205.0	207.0	208.5	209.5	210.0	210.5
<b>125</b>	252.0	255.0	258.0	260.5	262.0	263.5	265.0	266.0	266.0
<b>130</b>	309.0	312.0	314.5	316.5	318.5	320.0	321.0	322.0	322.5
<b>135</b>	365.0	367.0	369.0	371.0	372.5	374.0	375.0	376.0	376.5
<b>140</b>	416.5	418.0	419.5	421.0	422.0	423.5	424.5	425.5	426.0
<b>145</b>	461.0	462.5	463.5	464.5	465.5	467.0	468.0	468.5	469.0
<b>150</b>	499.5	500.0	501.0	502.0	503.0	504.0	504.5	505.5	505.5
<b>155</b>	530.5	531.5	532.0	533.0	533.5	534.5	535.0	535.5	535.5
<b>160</b>	556.0	556.5	557.0	557.5	558.0	559.0	559.5	559.5	560.0
<b>165</b>	575.5	576.0	576.5	576.5	577.0	577.5	578.0	578.0	578.0
<b>170</b>	589.5	590.0	590.0	590.5	590.5	590.5	591.0	591.0	591.0
<b>175</b>	598.0	598.0	598.0	598.0	598.0	598.0	598.5	598.5	598.5
<b>180</b>	600.5	600.5	600.5	600.5	600.5	600.5	600.5	600.5	600.5

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	153.57	N.A.	5.70
0-30	325.48	N.A.	12.10
0-40	532.14	N.A.	19.80
0-60	939.64	N.A.	34.90
0-80	1178.21	N.A.	43.80
0-90	1206.09	N.A.	44.80
10-90	1166.31	N.A.	43.30
20-40	378.57	N.A.	14.10
20-50	592.47	N.A.	22.00
40-70	556.85	N.A.	20.70
60-80	238.58	N.A.	8.90
70-80	89.22	N.A.	3.30
80-90	27.87	N.A.	1.00
90-110	88.37	N.A.	3.30
90-120	233.05	N.A.	8.70
90-130	455.71	N.A.	16.90
90-150	1021.13	N.A.	38.00
90-180	1484.56	N.A.	55.20
110-180	1396.19	N.A.	51.90
0-180	2690.64	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	39.78
10-20	113.79
20-30	171.91
30-40	206.66
40-50	213.90
50-60	193.60
60-70	149.35
70-80	89.22
80-90	27.87
90-100	17.52
100-110	70.85
110-120	144.68
120-130	222.66
130-140	278.37
140-150	287.06
150-160	244.28
160-170	162.34
170-180	56.80

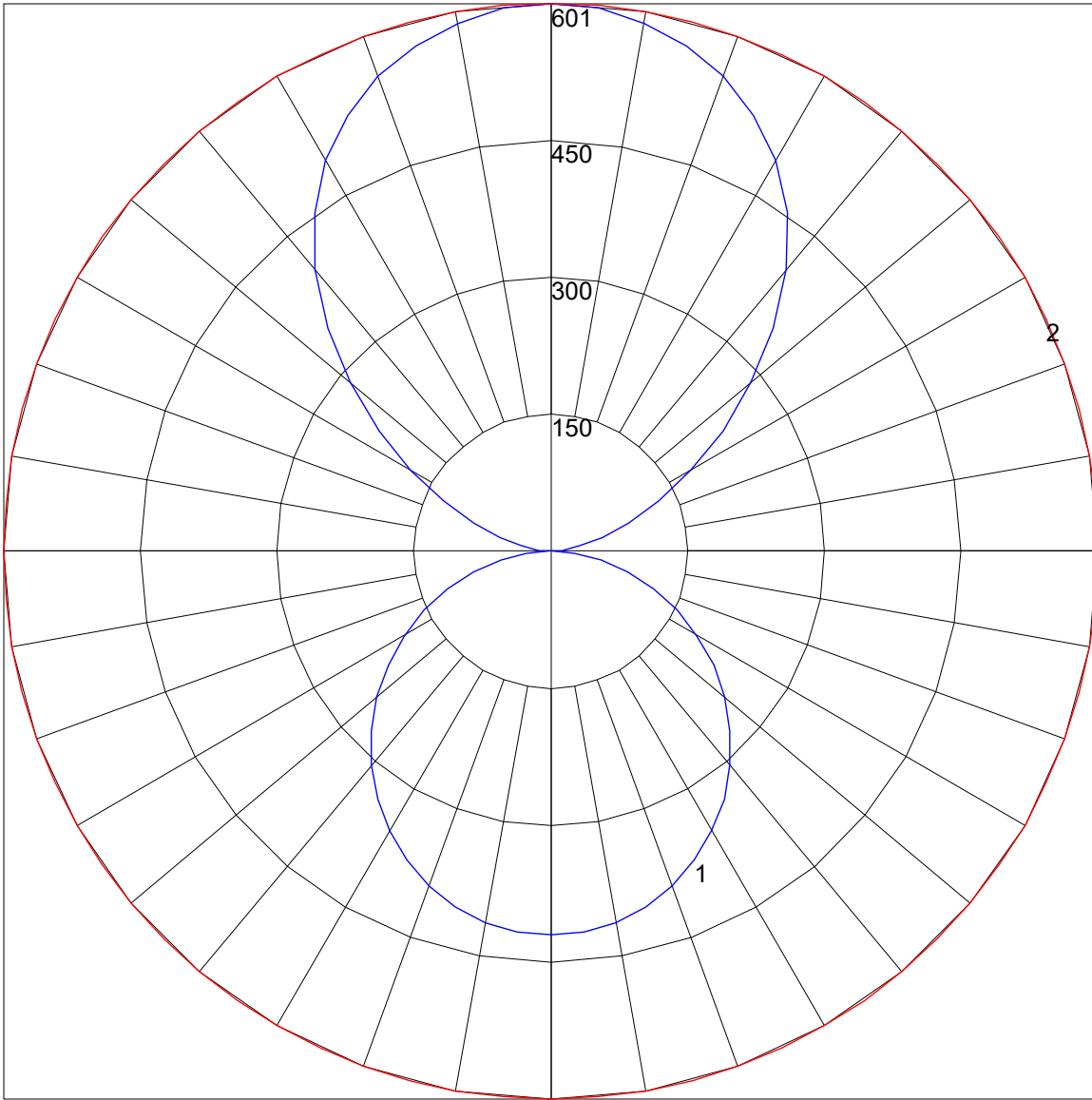
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	65	65	65	51	51	51	45
1	96	92	88	84	88	84	81	78	70	68	66	57	55	54	45	44	43	37
2	88	80	74	69	80	74	68	64	61	57	54	50	47	45	39	37	36	31
3	80	70	63	57	73	65	58	53	54	49	45	44	40	38	35	32	30	26
4	73	62	54	48	66	57	50	45	48	42	38	39	35	32	31	28	26	22
5	67	55	47	41	61	51	44	38	43	37	33	35	31	28	28	25	22	19
6	61	49	41	35	56	46	38	33	38	33	29	31	27	24	25	22	20	17
7	57	44	36	31	52	41	34	29	35	29	25	29	24	21	23	20	17	15
8	53	40	33	27	48	37	30	26	31	26	22	26	22	19	21	18	16	13
9	49	37	29	24	45	34	27	23	29	23	20	24	20	17	19	16	14	12
10	46	34	26	22	42	31	25	20	26	21	18	22	18	15	18	15	13	11

POLAR GRAPH



Maximum Candela = 600.5 Located At Horizontal Angle = 0, Vertical Angle = 180  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)