

**IES Report**

**ZipThree® | Ceiling Cable | 707 | Symmetric, up | 60° Symmetric, down | 80 CRI | LO**

707-Z3-XX-4-48-CC-XX-XX-XX-X-0-Z-LO-35-U1S2-0-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	92	95	97	99
Total Lumens, 4' rail length (1219mm)	2821	2911	2970	3029
Lumens per foot (305mm)	705	728	742	757
Lumens per foot UP (305mm)	435	449	458	467
Lumens per foot DOWN (305mm)	270	279	285	290
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	85	85	85	85

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\_35\_U1S2\_AL.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L031805803R01 (SOURCE REPORT FRO REFERENCE)  
 [TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB  
 [ISSUEDATE] 4/12/2018  
 [MANUFAC] Vode Lighting  
 [LUMCAT] 707-Z3-CC-Z-LO-35-U1S2-AL  
 [LUMINAIRE] ZipThree Suspended, 48", 3500K, 80 CRI, zipper board,  
 [MORE] symmetric lens up/60° symmetric lens down, 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	2970
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	30.81
Ballast Factor	1.00
CIE Type	Semi-Indirect
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)	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	1642	2939	5531
55	1030	1751	3841
65	798	1196	2612
75	615	831	1759
85	301	426	884

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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>0.0</b>	749.36	749.36	749.36	749.36	749.36	749.36	749.36	749.36	749.36	749.36
<b>1.0</b>	748.78	748.78	748.78	748.78	748.78	748.78	748.78	748.78	748.78	748.78
<b>3.0</b>	745.30	745.30	745.30	745.88	745.88	745.88	745.88	746.46	746.46	746.46
<b>5.0</b>	738.92	738.92	738.92	739.50	740.08	740.08	740.66	741.24	741.82	742.40
<b>7.0</b>	729.06	729.06	729.06	729.64	730.80	731.38	732.54	733.70	734.86	736.02
<b>9.0</b>	714.56	715.14	715.72	716.30	718.04	719.20	720.94	723.26	725.00	727.32
<b>11.0</b>	696.58	697.16	698.32	699.48	701.22	704.12	706.44	709.92	712.82	715.72
<b>13.0</b>	673.96	674.54	675.70	678.02	680.92	684.40	688.46	692.52	697.16	701.80
<b>15.0</b>	647.28	647.86	649.60	652.50	656.56	661.20	666.42	672.80	678.60	684.98
<b>17.0</b>	615.38	616.54	618.86	622.34	627.56	633.94	640.90	649.02	657.14	665.26
<b>19.5</b>	570.14	571.30	574.78	579.42	586.38	594.50	603.78	614.22	625.82	636.26
<b>22.5</b>	508.66	509.82	514.46	520.84	529.54	539.98	552.74	566.08	580.58	595.66
<b>25.5</b>	441.96	443.70	448.34	455.88	466.32	479.66	494.74	511.56	529.54	548.10
<b>29.0</b>	363.08	364.24	369.46	378.16	390.34	404.84	422.24	442.54	464.58	486.62
<b>33.0</b>	278.40	280.14	285.36	293.48	306.24	321.32	339.88	360.76	385.12	410.06
<b>37.5</b>	199.52	201.26	205.90	213.44	223.88	237.80	254.62	274.92	298.70	324.22
<b>42.5</b>	136.30	137.46	140.94	146.74	154.86	165.30	179.22	196.04	215.76	238.38
<b>47.5</b>	95.70	96.28	98.60	102.66	107.88	115.42	125.28	137.46	151.96	169.36
<b>55.0</b>	60.90	61.48	62.64	64.38	67.28	71.34	75.98	82.94	91.06	100.92
<b>65.0</b>	36.54	36.54	37.12	37.70	38.86	40.60	42.34	45.24	48.14	52.78
<b>75.0</b>	19.14	19.14	19.14	19.72	19.72	20.30	20.88	22.04	23.20	24.36
<b>85.0</b>	4.64	4.64	4.64	4.64	5.22	5.22	5.22	5.22	5.22	5.80
<b>90.0</b>	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
<b>95.0</b>	17.40	17.40	17.40	17.40	17.40	17.40	17.40	17.98	17.98	17.98
<b>100.0</b>	44.08	44.08	44.08	44.66	44.66	45.24	45.82	45.82	46.40	46.98
<b>105.0</b>	77.72	77.72	78.30	78.30	79.46	80.04	81.20	81.78	82.94	84.68
<b>110.0</b>	119.48	119.48	120.06	121.22	121.80	123.54	124.70	126.44	128.18	129.92
<b>115.0</b>	169.36	169.94	170.52	171.68	172.84	174.58	176.32	178.64	180.96	183.28
<b>120.0</b>	227.36	227.36	228.52	229.68	231.42	233.16	235.48	238.38	241.28	244.18
<b>125.0</b>	291.74	291.74	292.90	294.06	295.80	298.12	300.44	303.92	306.82	310.30
<b>130.0</b>	360.18	360.76	361.34	363.08	364.82	367.14	369.46	372.94	375.84	379.32
<b>135.0</b>	429.78	430.36	430.94	432.10	433.84	436.16	438.48	440.80	443.70	446.02
<b>140.0</b>	495.90	495.90	497.06	497.64	499.38	500.54	502.28	504.60	506.34	508.08
<b>145.0</b>	554.48	554.48	555.06	555.64	556.80	557.38	558.54	559.70	560.86	562.02
<b>150.0</b>	603.20	603.20	603.20	603.78	604.36	604.94	604.94	605.52	606.10	606.68
<b>155.0</b>	642.06	642.06	642.06	642.06	642.64	642.64	643.22	643.22	643.80	644.38
<b>160.0</b>	672.80	672.80	672.80	672.80	672.80	673.38	673.38	673.96	673.96	674.54
<b>165.0</b>	696.00	696.00	696.00	696.00	696.58	696.58	697.16	697.16	697.74	698.32
<b>170.0</b>	713.98	713.98	713.98	714.56	714.56	714.56	715.14	715.14	715.72	716.30
<b>175.0</b>	726.74	726.74	726.74	726.74	726.74	726.74	726.74	726.74	727.32	727.32
<b>180.0</b>	731.38	731.38	731.38	731.38	731.38	731.38	731.38	731.38	731.38	731.38

**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>0.0</b>	749.36	749.36	749.36	749.36	749.36	749.36	749.36	749.36	749.36
<b>1.0</b>	748.78	748.78	748.78	748.78	748.78	748.78	748.78	748.78	748.78
<b>3.0</b>	747.04	747.04	747.62	747.62	747.62	747.62	747.62	748.20	747.62
<b>5.0</b>	742.98	743.56	744.14	744.72	745.30	745.30	745.88	745.88	745.88
<b>7.0</b>	737.18	738.34	739.50	740.66	741.24	741.82	742.40	742.98	742.98
<b>9.0</b>	729.06	731.38	733.12	734.86	736.02	737.18	737.76	738.34	738.92
<b>11.0</b>	719.20	722.10	725.00	727.32	729.64	731.38	732.54	733.12	733.12
<b>13.0</b>	706.44	710.50	714.56	718.04	720.94	723.84	725.00	726.16	726.74
<b>15.0</b>	691.36	697.16	702.96	707.02	711.08	714.56	716.88	718.04	718.62

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<b>17.0</b>	673.38	681.50	688.46	694.26	699.48	703.54	706.44	708.18	708.76
<b>19.5</b>	647.28	657.72	667.00	675.12	682.08	687.30	690.78	693.10	694.26
<b>22.5</b>	610.16	624.08	636.84	647.86	656.56	664.10	668.74	671.64	672.80
<b>25.5</b>	567.24	584.64	600.88	614.80	626.40	635.68	642.06	645.54	646.70
<b>29.0</b>	509.82	531.86	551.58	569.56	584.06	595.66	603.78	608.42	610.16
<b>33.0</b>	436.74	462.84	487.78	509.82	527.80	542.30	551.58	557.38	559.70
<b>37.5</b>	352.64	381.06	408.32	433.84	454.72	471.54	483.14	490.10	492.42
<b>42.5</b>	264.48	291.74	319.00	345.10	366.56	385.12	397.30	404.84	407.16
<b>47.5</b>	190.24	212.86	236.64	260.42	280.72	298.12	310.30	317.84	320.16
<b>55.0</b>	113.68	127.60	142.68	158.92	173.42	186.76	196.62	203.00	205.32
<b>65.0</b>	57.42	63.80	70.76	77.72	85.26	92.22	98.02	101.50	103.24
<b>75.0</b>	26.10	28.42	30.74	33.64	36.54	38.86	41.18	42.92	42.92
<b>85.0</b>	5.80	5.80	6.38	6.38	6.96	6.96	7.54	7.54	7.54
<b>90.0</b>	0.58	0.58	0.58	0.58	0.58	0.00	0.00	0.00	0.00
<b>95.0</b>	17.98	17.98	17.98	17.98	17.98	17.98	17.40	17.40	17.40
<b>100.0</b>	47.56	48.14	48.72	49.30	49.30	49.30	49.30	49.30	49.30
<b>105.0</b>	85.84	86.42	88.16	88.74	89.32	89.90	90.48	90.48	90.48
<b>110.0</b>	132.24	133.98	135.72	136.88	138.04	139.20	139.78	139.78	140.36
<b>115.0</b>	186.18	188.50	190.82	192.56	194.30	195.46	196.04	196.62	196.62
<b>120.0</b>	247.08	249.98	252.88	254.62	256.36	258.10	259.26	259.84	260.42
<b>125.0</b>	313.78	316.68	319.00	321.32	323.06	324.80	325.96	327.12	327.70
<b>130.0</b>	382.22	385.12	387.44	389.18	390.92	392.66	393.82	394.98	395.56
<b>135.0</b>	448.92	450.66	452.40	454.14	455.88	457.04	458.78	460.52	461.10
<b>140.0</b>	509.82	510.98	512.14	513.88	515.04	516.78	518.52	519.68	520.26
<b>145.0</b>	562.60	563.76	564.92	566.08	567.24	568.98	570.14	571.30	572.46
<b>150.0</b>	607.84	608.42	609.00	610.16	611.90	613.06	614.80	615.38	615.96
<b>155.0</b>	644.96	645.54	646.70	647.86	649.02	650.18	651.34	651.92	652.50
<b>160.0</b>	675.12	676.28	676.86	678.02	678.60	679.76	680.34	680.92	681.50
<b>165.0</b>	698.90	699.48	700.06	701.22	701.80	702.38	702.96	703.54	703.54
<b>170.0</b>	716.30	716.88	717.46	718.04	718.04	718.62	719.20	719.20	719.20
<b>175.0</b>	727.32	727.32	727.90	727.90	727.90	727.90	727.90	727.90	728.48
<b>180.0</b>	731.38	731.38	731.38	731.38	731.38	731.38	731.38	731.38	731.38

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	250.08	N.A.	8.40
0-30	489.51	N.A.	16.50
0-40	698.46	N.A.	23.50
0-60	988.05	N.A.	33.30
0-80	1118.18	N.A.	37.60
0-90	1138.07	N.A.	38.30
10-90	1080.97	N.A.	36.40
20-40	448.38	N.A.	15.10
20-50	639.44	N.A.	21.50
40-70	374.16	N.A.	12.60
60-80	130.13	N.A.	4.40
70-80	45.57	N.A.	1.50
80-90	19.89	N.A.	0.70
90-110	113.79	N.A.	3.80
90-120	297.08	N.A.	10.00
90-130	574.67	N.A.	19.30
90-150	1268.32	N.A.	42.70
90-180	1831.88	N.A.	61.70
110-180	1718.09	N.A.	57.80
0-180	2969.95	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	57.10
10-20	192.98
20-30	239.43
30-40	208.95
40-50	191.06
50-60	98.53
60-70	84.57
70-80	45.57
80-90	19.89
90-100	22.62
100-110	91.16
110-120	183.29
120-130	277.59
130-140	342.87
140-150	350.79
150-160	297.22
160-170	197.25
170-180	69.08

**IES INDOOR REPORT**

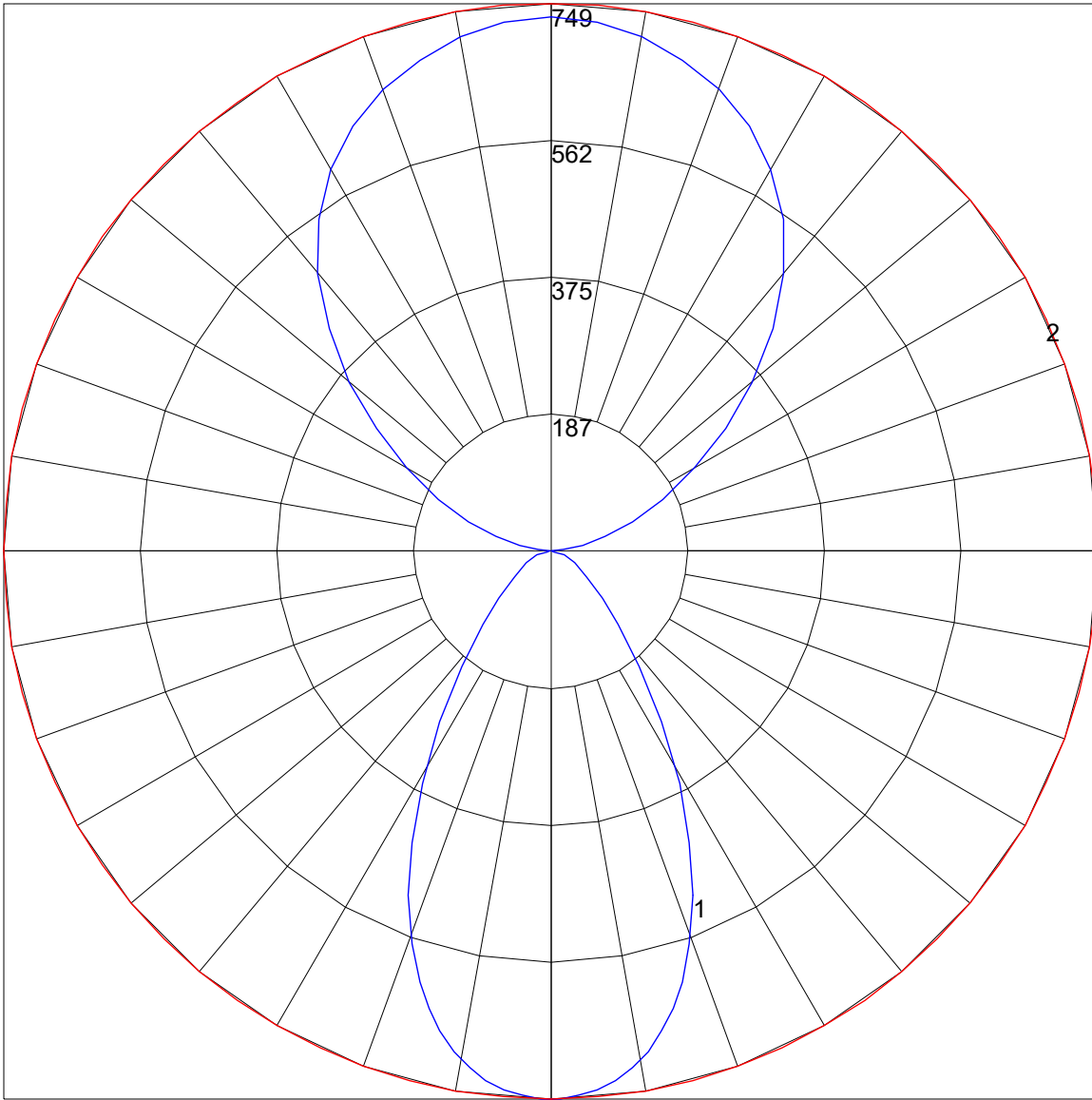
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	96	92	88	85	87	83	80	78	68	66	64	54	53	51	41	40	39	33
2	88	81	75	70	80	74	69	65	60	57	54	48	46	44	37	36	34	29
3	81	72	65	60	73	66	60	55	54	50	46	43	41	38	33	32	30	26
4	74	64	57	51	67	59	52	47	49	44	40	39	36	33	30	28	27	23
5	68	57	50	44	62	53	46	41	44	39	35	36	32	29	28	26	24	20
6	63	52	44	39	57	48	41	36	40	35	31	32	29	26	26	23	21	18
7	59	47	40	34	53	43	37	32	36	31	28	30	26	24	24	21	19	17
8	54	43	36	31	50	40	33	29	33	28	25	27	24	21	22	19	18	15
9	51	39	32	27	46	36	30	26	31	26	23	25	22	19	20	18	16	14
10	48	36	29	25	43	34	27	23	28	24	20	24	20	18	19	17	15	13

POLAR GRAPH



Maximum Candela = 749.36 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)