

## IES Report

### ZipThree® | Ceiling Cable | 707 | Symmetric with EdgeGlow, up | 40° Symmetric, down | 80 CRI | LO

707-Z3-XX-4-48-CC-XX-XX-XX-X-0-Z-LO-35-U2S1-0-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	94	97	99	99
Total Lumens, 4' rail length (1219mm)	2773	2860	2919	2919
Lumens per foot (305mm)	693	715	730	730
Lumens per foot UP (305mm)	474	489	499	499
Lumens per foot DOWN (305mm)	219	226	231	231
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	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](https://vode.com).



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : VODE\_707\_Z3\_CC\_LO\_35\_U2S1.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911552 (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-35-U2S1-AL

[LUMINAIRE] ZipThree LED Suspended, 48", 3500K, 80 CRI, zipper board, symmetric lens with edge glow up/40°

[MORE] 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	2919
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	29.78
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)	0.26 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	1278	2127	3677
55	899	1398	2504
65	735	1040	1848
75	579	766	1349
85	331	416	785

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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>	696.58	696.58	696.58	696.58	696.58	696.58	696.58	696.58	696.58	696.58
<b>1.0</b>	696.58	696.58	696.58	696.58	696.58	696.58	696.58	696.58	696.58	696.58
<b>3.0</b>	693.68	693.68	693.68	693.68	693.68	694.26	694.26	694.26	694.84	694.84
<b>5.0</b>	683.82	683.82	684.40	684.40	684.98	685.56	686.72	687.30	687.88	689.04
<b>7.0</b>	669.32	669.32	669.90	670.48	671.64	672.80	674.54	675.70	677.44	679.18
<b>9.0</b>	649.02	649.02	649.60	651.34	653.08	655.40	657.72	660.62	663.52	666.42
<b>11.0</b>	623.50	624.08	625.24	626.98	629.88	633.36	636.84	641.48	645.54	650.18
<b>13.0</b>	593.34	593.92	595.66	598.56	602.04	606.68	611.90	618.28	624.66	631.04
<b>15.0</b>	558.54	559.12	561.44	564.92	570.14	575.94	582.90	591.02	599.14	607.84
<b>17.0</b>	520.26	520.84	523.74	528.38	534.18	542.30	551.00	560.28	570.72	581.16
<b>19.5</b>	468.64	469.80	473.28	478.50	486.04	495.90	506.34	518.52	531.86	545.20
<b>22.5</b>	403.68	404.84	408.90	415.86	424.56	436.16	449.50	464.00	480.24	496.48
<b>25.5</b>	339.30	341.04	345.68	352.64	362.50	375.26	389.76	407.16	425.14	444.28
<b>29.0</b>	270.86	272.60	277.24	284.20	294.64	307.40	322.48	339.88	360.18	381.06
<b>33.0</b>	205.32	206.48	210.54	217.50	226.78	238.96	253.46	270.28	290.00	310.30
<b>37.5</b>	149.64	150.80	154.28	159.50	167.04	176.90	189.08	204.16	220.98	240.12
<b>42.5</b>	107.30	108.46	110.78	114.84	120.06	127.60	136.88	147.90	161.82	176.90
<b>47.5</b>	80.04	80.62	82.36	85.26	89.32	94.54	100.92	109.04	118.32	129.34
<b>55.0</b>	55.10	55.68	56.26	58.00	60.32	63.22	66.70	71.34	77.14	83.52
<b>65.0</b>	34.80	34.80	35.38	35.96	37.12	38.28	40.02	42.34	44.66	47.56
<b>75.0</b>	18.56	19.14	19.14	19.14	19.72	20.30	20.88	21.46	22.62	23.20
<b>85.0</b>	5.22	5.22	5.22	5.22	5.22	5.22	5.22	5.22	5.80	5.80
<b>90.0</b>	11.60	11.60	11.60	11.02	10.44	9.86	9.28	8.70	7.54	6.96
<b>95.0</b>	26.10	26.10	26.10	25.52	25.52	24.94	24.36	23.78	23.78	23.20
<b>100.0</b>	49.30	49.88	49.88	49.88	50.46	51.04	51.62	52.20	52.78	53.94
<b>105.0</b>	85.84	85.84	86.42	87.00	88.16	89.32	90.48	91.64	93.38	94.54
<b>110.0</b>	132.24	132.82	133.40	133.98	135.14	136.88	138.62	140.94	142.68	145.00
<b>115.0</b>	189.66	189.66	190.24	191.98	193.14	195.46	197.78	200.68	203.58	207.06
<b>120.0</b>	258.10	258.10	259.26	260.42	262.74	265.64	268.54	271.44	274.92	278.40
<b>125.0</b>	335.24	335.24	336.40	337.56	339.88	342.20	344.52	347.42	350.32	352.64
<b>130.0</b>	412.96	412.96	414.12	414.70	416.44	418.18	419.92	421.66	423.40	425.72
<b>135.0</b>	484.88	484.88	484.88	486.04	486.62	487.78	488.94	490.10	491.26	493.00
<b>140.0</b>	546.94	546.94	547.52	547.52	548.10	548.68	549.84	550.42	551.00	551.58
<b>145.0</b>	599.72	599.72	599.72	600.30	600.30	600.88	600.88	601.46	602.04	602.04
<b>150.0</b>	643.22	643.22	643.22	643.22	643.22	643.80	643.80	644.38	644.38	644.38
<b>155.0</b>	678.60	678.60	678.60	678.60	678.60	678.60	678.60	678.60	678.60	679.18
<b>160.0</b>	705.86	705.86	705.86	705.86	705.86	705.86	706.44	706.44	706.44	706.44
<b>165.0</b>	727.32	727.32	727.32	727.32	727.32	727.32	727.32	727.32	727.32	727.32
<b>170.0</b>	741.82	741.82	741.82	741.82	742.40	741.82	742.40	742.40	742.40	742.40
<b>175.0</b>	750.52	750.52	750.52	751.10	750.52	750.52	750.52	750.52	751.10	751.10
<b>180.0</b>	752.84	752.84	752.84	752.84	752.84	752.84	752.84	752.84	752.84	752.84

**Vert. Horizontal Angles**  
**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>	696.58	696.58	696.58	696.58	696.58	696.58	696.58	696.58	696.58
<b>1.0</b>	696.58	696.58	696.58	696.58	696.58	696.58	696.58	696.58	696.58
<b>3.0</b>	695.42	695.42	695.42	695.42	696.00	696.00	696.00	696.58	696.00
<b>5.0</b>	689.62	690.20	691.36	691.94	692.52	693.10	693.10	693.68	693.68
<b>7.0</b>	681.50	683.24	684.98	686.14	687.30	688.46	689.04	689.62	689.62
<b>9.0</b>	669.90	672.80	675.70	678.02	680.34	682.08	683.24	683.82	684.40
<b>11.0</b>	655.40	659.46	664.10	667.58	671.06	673.96	675.70	676.86	677.44
<b>13.0</b>	637.42	643.80	649.60	655.40	659.46	663.52	665.84	667.58	668.16
<b>15.0</b>	615.96	624.66	632.20	639.16	644.96	650.18	653.66	655.98	656.56

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**CANDELA TABULATION - (Cont.)**

<b>17.0</b>	592.18	602.62	612.48	621.18	628.72	635.10	639.16	642.06	642.64
<b>19.5</b>	558.54	571.88	584.06	595.08	604.94	612.48	618.28	621.18	622.34
<b>22.5</b>	513.30	529.54	544.62	559.12	570.72	580.00	586.96	591.60	592.76
<b>25.5</b>	464.00	482.56	500.54	517.36	531.28	542.30	550.42	555.64	556.80
<b>29.0</b>	402.52	423.98	443.70	462.84	478.50	491.84	500.54	506.34	508.08
<b>33.0</b>	332.92	354.96	376.42	396.72	413.54	427.46	437.32	443.12	444.86
<b>37.5</b>	260.42	281.30	302.18	321.32	337.56	351.48	361.34	367.14	368.88
<b>42.5</b>	193.14	210.54	227.94	244.76	258.68	270.86	279.56	284.78	286.52
<b>47.5</b>	142.10	154.86	168.20	181.54	193.14	203.00	209.96	214.60	216.34
<b>55.0</b>	90.48	98.60	106.72	114.84	122.38	129.34	134.56	138.04	139.20
<b>65.0</b>	51.04	54.52	58.58	62.64	66.70	70.18	73.08	74.82	75.98
<b>75.0</b>	24.94	26.10	27.84	29.00	30.74	31.90	33.06	34.22	34.22
<b>85.0</b>	5.80	5.80	6.38	6.38	6.96	6.96	6.96	6.96	6.96
<b>90.0</b>	5.80	5.22	4.64	4.06	3.48	2.90	2.32	1.74	1.74
<b>95.0</b>	22.62	22.62	22.62	22.62	22.04	22.04	22.04	22.04	22.04
<b>100.0</b>	54.52	55.10	55.10	55.68	56.26	56.84	57.42	57.42	56.84
<b>105.0</b>	95.70	96.86	98.02	99.76	101.50	102.08	102.08	102.08	102.08
<b>110.0</b>	147.32	150.22	152.54	154.86	156.02	156.60	157.18	157.18	157.18
<b>115.0</b>	210.54	213.44	215.76	217.50	219.24	219.82	220.40	220.98	220.98
<b>120.0</b>	281.30	283.62	285.94	287.68	289.42	290.00	291.16	291.16	291.74
<b>125.0</b>	354.96	357.28	359.02	360.76	361.92	362.50	363.66	363.66	364.24
<b>130.0</b>	426.88	428.62	430.36	431.52	432.10	433.26	433.84	433.84	433.84
<b>135.0</b>	493.58	494.74	495.90	496.48	497.06	497.64	498.22	498.22	498.80
<b>140.0</b>	552.16	552.74	553.32	553.90	554.48	555.06	555.06	555.64	555.64
<b>145.0</b>	602.62	602.62	603.20	603.20	603.78	604.36	604.36	604.36	604.36
<b>150.0</b>	644.38	644.96	644.96	645.54	645.54	645.54	646.12	646.12	645.54
<b>155.0</b>	679.18	679.18	679.76	679.76	679.76	680.34	680.34	680.34	680.34
<b>160.0</b>	706.44	707.02	707.02	707.02	707.02	707.02	707.60	707.60	707.60
<b>165.0</b>	727.90	727.90	727.90	727.90	727.90	727.90	727.90	727.90	727.90
<b>170.0</b>	742.40	742.40	742.40	742.40	742.40	742.40	742.40	742.40	742.40
<b>175.0</b>	750.52	750.52	750.52	751.10	750.52	750.52	750.52	750.52	750.52
<b>180.0</b>	752.84	752.84	752.84	752.84	752.84	752.84	752.84	752.84	752.84

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	224.27	N.A.	7.70
0-30	421.97	N.A.	14.50
0-40	582.44	N.A.	20.00
0-60	796.35	N.A.	27.30
0-80	902.71	N.A.	30.90
0-90	922.88	N.A.	31.60
10-90	870.07	N.A.	29.80
20-40	358.18	N.A.	12.30
20-50	498.55	N.A.	17.10
40-70	281.02	N.A.	9.60
60-80	106.36	N.A.	3.60
70-80	39.25	N.A.	1.30
80-90	20.17	N.A.	0.70
90-110	131.56	N.A.	4.50
90-120	337.91	N.A.	11.60
90-130	651.59	N.A.	22.30
90-150	1406.03	N.A.	48.20
90-180	1995.66	N.A.	68.40
110-180	1864.1	N.A.	63.90
0-180	2918.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	52.80
10-20	171.46
20-30	197.71
30-40	160.47
40-50	140.38
50-60	73.53
60-70	67.12
70-80	39.25
80-90	20.17
90-100	29.33
100-110	102.23
110-120	206.35
120-130	313.68
130-140	378.41
140-150	376.03
150-160	312.87
160-170	205.39
170-180	71.38

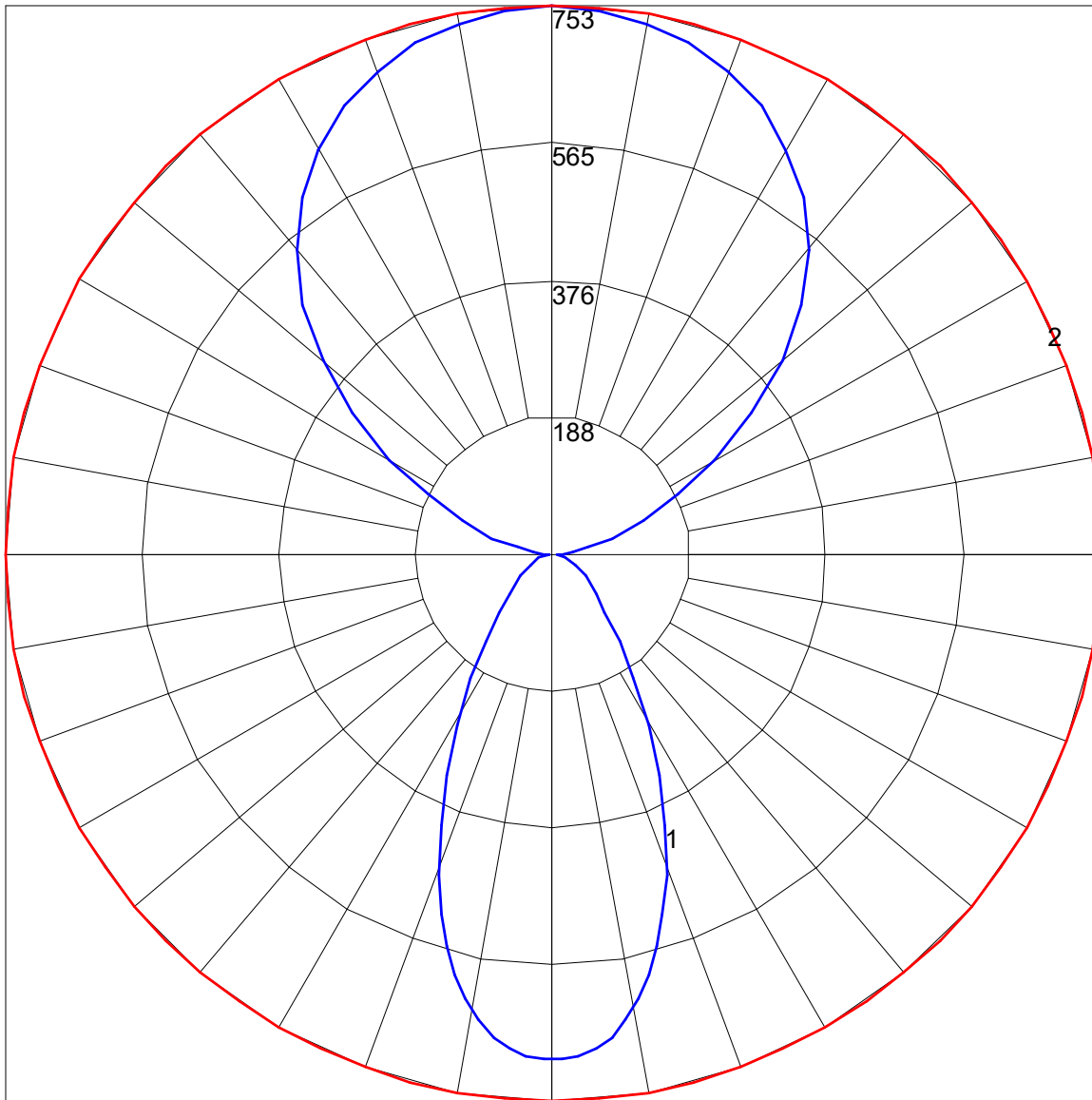
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	32
1	94	90	86	83	85	81	78	75	65	63	61	49	48	47	35	35	34	27
2	86	79	74	69	77	72	67	63	57	54	51	44	42	40	32	31	30	24
3	79	70	64	58	71	64	58	53	51	47	44	40	37	35	29	27	26	21
4	73	63	55	50	65	57	51	46	46	42	38	36	33	30	26	25	23	19
5	67	56	49	43	60	51	45	40	42	37	33	33	29	27	24	22	21	17
6	62	51	43	38	56	46	40	35	38	33	29	30	26	24	22	20	19	16
7	57	46	39	33	52	42	36	31	34	30	26	27	24	22	21	19	17	14
8	53	42	35	30	48	38	32	28	32	27	24	25	22	19	19	17	15	13
9	50	38	31	27	45	35	29	25	29	24	21	23	20	18	18	16	14	12
10	47	35	29	24	42	32	26	22	27	22	19	22	18	16	17	15	13	11

POLAR GRAPH



Maximum Candela = 752.84 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.)