

IES Report

ZipThree® | Ceiling Cable | 707 | Symmetric with EdgeGlow, up | 60° Symmetric, down | 90 CRI | LO

707-Z3-XX-4-48-CC-XX-XX-XX-X-0-Z-LO-359-U2S2-0-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	79	81	83	86
Total Lumens, 4' rail length (1219mm)	2419	2495	2546	2597
Lumens per foot (305mm)	605	624	636	649
Lumens per foot UP (305mm)	376	388	396	404
Lumens per foot DOWN (305mm)	228	235	240	245
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.



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VODE_707_Z3_CC_LO_359_U2S2_AL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L031805804R01 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB

[ISSUEDATE] 4/12/2018

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z3-CC-Z-LO-359-U2S2-AL

[LUMINAIRE] ZipThree Suspended, 48", 3500K, 90 CRI, zipper board,

[MORE] symmetric lens with edgeglow 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	2546
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
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	1352	2433	4536
55	862	1449	3124
65	666	997	2138
75	515	699	1455
85	259	331	704

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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>
0.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0
1.0	648.5	648.5	648.5	648.5	648.5	648.5	648.5	648.5	648.5	649.0
3.0	646.0	646.0	646.0	646.0	646.0	646.5	646.5	646.5	647.0	647.0
5.0	640.0	640.0	640.0	640.5	640.5	641.0	641.5	642.0	642.5	643.0
7.0	631.0	631.0	631.5	632.0	632.5	633.5	634.0	635.0	636.0	637.5
9.0	618.5	618.5	619.0	620.0	621.0	622.5	624.0	625.5	627.5	629.5
11.0	602.5	602.5	603.5	604.5	606.5	608.5	611.0	613.5	616.5	619.5
13.0	582.0	582.5	583.5	585.5	588.0	591.0	595.0	598.5	602.5	607.0
15.0	558.0	558.5	560.0	562.5	566.0	570.5	575.5	580.5	586.5	592.0
17.0	529.5	530.5	532.5	536.0	540.5	546.0	552.5	559.5	567.0	574.0
19.5	489.0	490.0	493.0	497.5	503.5	511.0	519.5	529.0	538.5	548.5
22.5	434.0	435.0	438.5	444.5	452.5	462.0	473.0	485.5	498.5	511.5
25.5	374.5	376.0	380.0	387.0	396.5	408.0	421.5	436.5	453.0	469.0
29.0	304.5	306.0	311.0	318.5	328.5	342.0	357.5	375.0	394.0	413.5
33.0	231.5	233.0	237.5	244.5	255.5	268.5	284.5	303.5	324.5	346.5
37.5	164.5	166.0	169.5	176.0	185.5	197.0	211.5	229.0	249.5	271.5
42.5	112.0	113.0	116.0	120.5	127.5	136.5	147.5	162.0	179.0	197.5
47.5	79.0	79.5	81.5	84.5	89.0	95.5	103.0	113.5	125.5	140.0
55.0	51.0	51.0	52.0	53.5	56.0	59.0	63.5	68.5	75.5	83.5
65.0	30.5	31.0	31.0	32.0	32.5	34.0	35.5	38.0	40.5	44.0
75.0	16.0	16.0	16.0	16.5	16.5	17.0	17.5	18.5	19.5	20.5
85.0	4.0	4.0	4.0	4.0	4.0	4.0	4.5	4.5	4.5	4.5
90.0	7.5	7.5	7.5	7.0	7.0	6.5	6.0	5.5	5.0	4.5
95.0	20.0	20.0	20.0	20.0	19.5	19.5	19.0	19.0	18.5	18.0
100.0	41.0	41.0	41.5	41.5	41.5	41.5	41.5	42.0	42.0	42.0
105.0	69.0	69.0	69.5	69.5	70.0	71.0	71.5	72.0	73.0	73.5
110.0	105.0	105.0	105.5	106.0	107.0	108.0	109.5	110.5	112.0	113.5
115.0	149.5	149.5	150.0	151.0	152.0	153.5	155.0	157.0	159.0	161.0
120.0	202.0	202.5	203.0	204.0	205.0	207.0	208.5	211.0	213.0	215.0
125.0	260.5	261.0	261.5	262.5	264.0	265.5	267.5	269.5	271.5	274.0
130.0	321.5	321.5	322.0	323.0	324.0	325.5	327.5	329.5	331.5	333.5
135.0	380.0	380.0	380.5	381.0	382.5	383.5	385.0	386.5	388.0	389.5
140.0	433.5	433.5	434.0	434.5	435.0	436.0	437.0	438.0	438.5	439.5
145.0	479.5	479.5	479.5	480.0	480.5	481.0	481.5	482.0	482.5	483.0
150.0	517.5	517.5	517.5	517.5	518.0	518.0	518.5	518.5	519.0	519.5
155.0	548.0	548.0	548.0	548.0	548.5	548.5	548.5	549.0	549.0	549.5
160.0	572.5	572.5	572.5	572.5	573.0	573.0	573.0	573.0	573.0	573.5
165.0	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5
170.0	604.5	604.5	604.5	604.5	604.5	604.5	604.5	604.5	604.5	604.5
175.0	612.0	612.0	612.0	612.0	612.0	612.0	612.0	612.0	612.0	612.0
180.0	614.5	614.5	614.5	614.5	614.5	614.5	614.5	614.5	614.5	614.5

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>
0.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0
1.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0
3.0	647.0	647.5	647.5	647.5	648.0	648.0	648.0	648.0	648.0
5.0	643.5	644.0	644.5	645.0	645.5	646.0	646.0	646.0	646.0
7.0	638.5	639.5	640.5	641.0	642.0	642.5	643.0	643.0	643.0
9.0	631.0	633.0	634.5	636.0	637.0	638.0	639.0	639.5	639.5
11.0	622.0	625.0	627.0	629.5	631.0	632.5	633.5	634.5	634.5
13.0	611.0	614.5	618.0	621.0	623.5	626.0	627.5	628.0	628.5
15.0	597.5	602.5	607.0	611.0	614.5	617.5	619.5	620.5	621.0

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CANDELA TABULATION - (Cont.)

17.0	581.0	588.0	594.0	599.5	604.0	607.5	610.0	611.5	612.0
19.5	558.0	567.0	575.0	582.5	588.0	592.5	596.0	598.0	598.5
22.5	524.5	536.5	547.5	557.0	564.5	570.5	575.0	577.5	578.0
25.5	485.5	501.0	515.0	527.0	537.0	544.5	550.0	553.0	554.0
29.0	434.0	453.0	470.5	486.0	498.0	508.0	514.5	518.5	519.5
33.0	369.5	392.0	413.0	431.5	446.5	458.0	466.5	471.0	472.5
37.5	295.5	319.5	342.5	363.5	380.5	394.5	403.5	409.0	411.0
42.5	219.5	242.0	264.0	285.0	303.0	318.0	328.0	333.5	335.5
47.5	157.0	175.5	194.5	213.0	229.5	243.0	253.0	259.0	261.0
55.0	93.5	104.5	116.5	129.5	141.5	152.0	160.0	165.0	167.0
65.0	48.0	53.0	58.5	64.5	70.0	76.0	80.5	83.5	84.5
75.0	22.0	24.0	25.5	28.0	30.0	32.0	34.0	35.0	35.5
85.0	5.0	5.0	5.0	5.5	5.5	6.0	6.0	6.0	6.0
90.0	4.0	3.5	3.0	2.5	2.0	1.5	1.0	0.5	0.5
95.0	17.5	17.5	17.0	16.5	16.0	16.0	15.5	15.0	15.0
100.0	42.0	42.5	42.5	42.5	42.5	42.0	42.0	42.0	41.5
105.0	74.5	75.0	76.0	76.5	76.5	77.0	77.0	77.0	76.5
110.0	115.0	116.0	117.5	118.0	119.0	119.5	119.5	119.5	119.5
115.0	163.0	164.5	166.0	167.5	168.5	169.0	169.5	169.5	169.5
120.0	217.5	219.5	221.5	223.0	224.0	225.0	225.5	225.5	225.5
125.0	276.0	278.0	280.0	281.5	282.5	283.5	284.0	284.0	284.5
130.0	335.0	337.0	338.5	339.5	340.5	341.0	341.5	342.0	342.0
135.0	391.0	392.0	393.0	394.0	394.5	395.0	395.5	395.5	396.0
140.0	440.5	441.0	442.0	442.5	443.0	443.5	443.5	444.0	444.0
145.0	483.5	484.0	484.5	485.0	485.0	485.5	485.5	485.5	485.5
150.0	519.5	520.0	520.5	520.5	520.5	521.0	521.0	521.0	521.0
155.0	549.5	549.5	550.0	550.0	550.0	550.0	550.0	550.5	550.5
160.0	573.5	573.5	573.5	573.5	573.5	573.5	573.5	573.5	573.5
165.0	591.5	591.5	591.5	591.5	591.5	592.0	592.0	592.0	592.0
170.0	604.5	604.5	604.5	604.5	604.5	604.5	604.5	604.5	604.5
175.0	612.0	612.0	612.0	612.0	612.0	612.0	612.0	612.0	612.0
180.0	614.5	614.5	614.5	614.5	614.5	614.5	614.5	614.5	614.5

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	216.06	N.A.	8.50
0-30	420.87	N.A.	16.50
0-40	596.83	N.A.	23.40
0-60	835.77	N.A.	32.80
0-80	943.29	N.A.	37.10
0-90	960.83	N.A.	37.70
10-90	911.38	N.A.	35.80
20-40	380.78	N.A.	15.00
20-50	538.87	N.A.	21.20
40-70	308.60	N.A.	12.10
60-80	107.52	N.A.	4.20
70-80	37.86	N.A.	1.50
80-90	17.54	N.A.	0.70
90-110	101.89	N.A.	4.00
90-120	262.23	N.A.	10.30
90-130	506.73	N.A.	19.90
90-150	1107.09	N.A.	43.50
90-180	1585.15	N.A.	62.30
110-180	1483.27	N.A.	58.30
0-180	2545.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	49.45
10-20	166.61
20-30	204.81
30-40	175.97
40-50	158.10
50-60	80.84
60-70	69.66
70-80	37.86
80-90	17.54
90-100	22.33
100-110	79.56
110-120	160.34
120-130	244.50
130-140	298.98
140-150	301.39
150-160	252.94
160-170	166.94
170-180	58.18

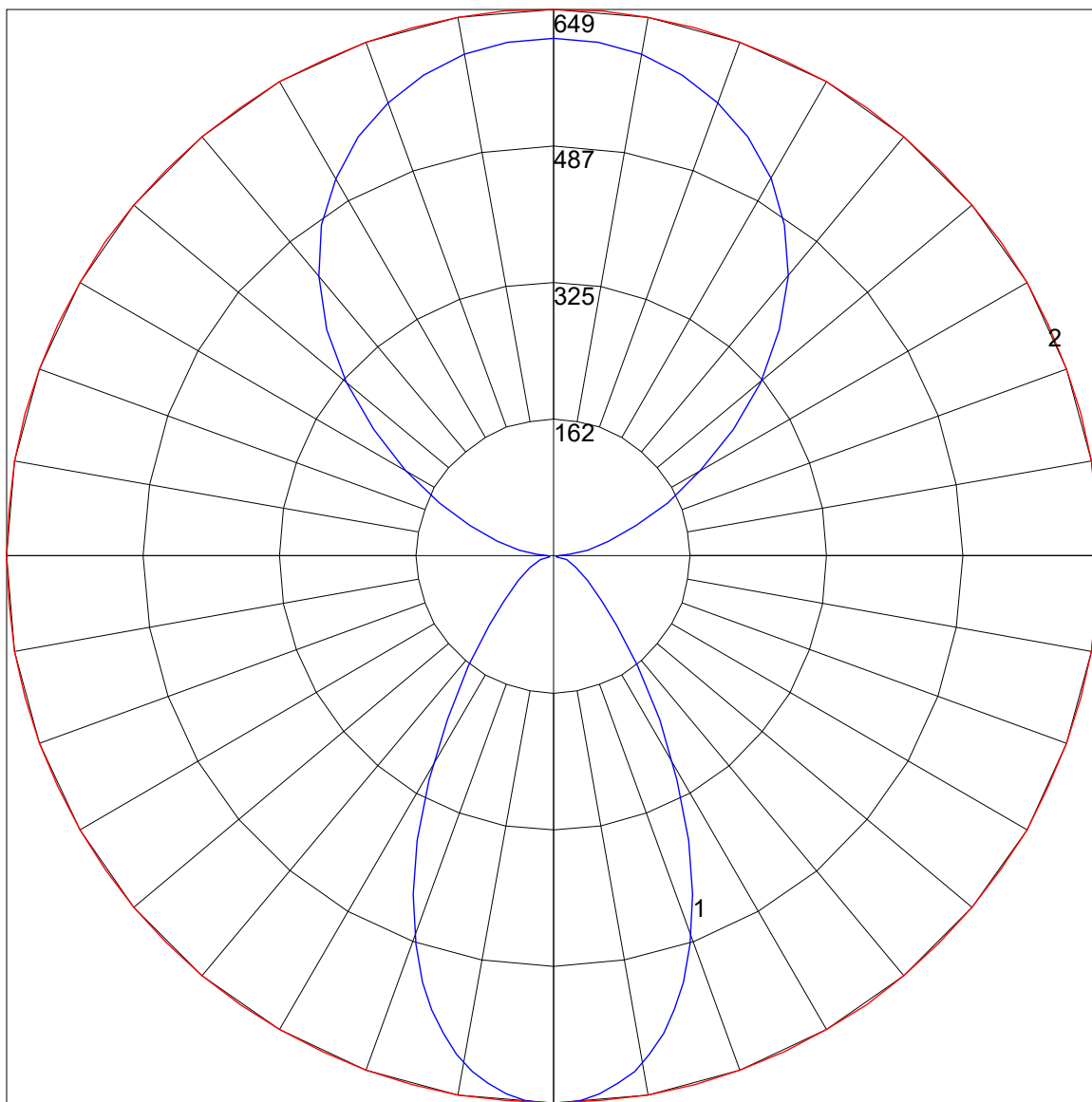
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	52	51	40	40	39	33
2	88	81	75	70	79	74	69	65	60	57	54	48	46	44	37	35	34	29
3	80	72	65	60	73	66	60	55	54	50	46	43	40	38	33	31	30	25
4	74	64	57	51	67	59	52	47	48	44	40	39	36	33	30	28	26	23
5	68	57	50	44	62	53	46	41	44	39	35	35	32	29	28	25	24	20
6	63	52	44	39	57	48	41	36	40	35	31	32	29	26	25	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	28	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	21	24	20	18	19	17	15	13

POLAR GRAPH



Maximum Candela = 649 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.)