

IES Report

ZipTwo® | 707 | 60° Symmetric | 90 CRI | LO

707-Z2-4-48-XX-XX-X-0-Z-LO-359-S2-X-BL-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	39	40	41	42
Total Lumens, 4' rail length (1219mm)	622	642	655	668
Lumens per foot (305mm)	156	160	164	167
Input Power (W), 4' rail length (1219mm)	16.3	16.3	16.3	16.3
Watts per foot (305mm)	4.1	4.1	4.1	4.1
CRI	95	95	95	95

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\_Z2\_LO\_359\_S2-BL.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L071704228 (SOURCE REPORT FOR REFERENCE)  
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB  
[ISSUEDATE] 11/1/2017  
[MANUFAC] Vode Lighting  
[LUMCAT] 707-Z2-48-Z-LO-359-S2-BL  
[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, zipper board,  
[MORE] 60° black symmetric lens, low output  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	655
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	40
Total Luminaire Watts	16.25
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.82
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	0.98
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.02 ft
Luminous Width (90-270)	4.02 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10515	20596	39697
55	4876	10585	23310
65	2744	5811	12590
75	1845	3690	7380
85	1565	2348	3913

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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>	511.02	511.02	511.02	511.02	511.02	511.02	511.02	511.02	511.02	511.02
<b>1.0</b>	511.02	510.51	511.02	511.02	511.02	511.02	511.02	511.02	511.02	511.02
<b>3.0</b>	508.47	508.47	508.47	508.47	508.47	508.98	508.98	508.98	508.98	509.49
<b>5.0</b>	502.35	502.35	502.35	502.86	502.86	503.37	503.88	504.39	504.90	505.41
<b>7.0</b>	493.17	493.17	493.68	494.19	494.70	495.72	496.74	497.76	498.78	499.80
<b>9.0</b>	479.40	479.40	479.91	480.93	481.95	483.48	485.52	487.05	489.09	491.13
<b>11.0</b>	462.06	462.57	463.08	464.61	466.14	468.69	471.24	473.79	476.85	480.42
<b>13.0</b>	441.66	442.17	443.19	445.23	447.78	450.84	454.41	457.98	462.57	466.65
<b>15.0</b>	418.20	418.71	420.24	422.28	425.85	429.93	434.52	439.62	445.23	451.35
<b>17.0</b>	392.70	393.21	395.25	398.31	402.39	407.49	413.10	419.73	426.87	434.01
<b>19.5</b>	357.51	358.02	360.57	364.14	369.24	375.36	382.50	391.17	399.84	409.02
<b>22.5</b>	312.63	313.14	316.20	320.28	326.40	334.05	343.23	353.43	364.14	375.87
<b>25.5</b>	266.22	267.24	270.30	275.40	282.03	291.21	300.90	312.63	325.89	339.15
<b>29.0</b>	213.69	214.71	218.28	223.38	230.52	240.21	251.43	264.18	278.46	294.27
<b>33.0</b>	159.63	160.65	163.71	168.81	175.95	185.64	196.86	210.12	225.93	242.25
<b>37.5</b>	109.14	110.16	112.71	117.30	123.42	132.09	142.29	154.53	169.32	185.13
<b>42.5</b>	68.85	69.36	71.40	74.46	79.56	86.19	94.35	104.55	116.79	130.56
<b>47.5</b>	42.33	42.84	44.37	46.41	49.98	54.57	60.18	67.83	77.01	87.21
<b>55.0</b>	20.91	20.91	21.93	22.95	24.99	27.03	30.60	34.17	39.27	45.39
<b>65.0</b>	8.67	8.67	9.18	9.69	10.20	11.22	12.24	14.28	16.32	18.36
<b>75.0</b>	3.57	3.57	3.57	3.57	4.08	4.59	5.10	5.61	6.12	7.14
<b>85.0</b>	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.53	1.53	1.53
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**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>	511.02	511.02	511.02	511.02	511.02	511.02	511.02	511.02	511.02
<b>1.0</b>	511.02	511.02	511.02	511.02	511.02	511.02	511.02	511.02	511.02
<b>3.0</b>	509.49	509.49	510.00	510.00	510.00	510.00	510.00	510.51	510.00
<b>5.0</b>	505.92	506.43	506.94	507.45	507.96	508.47	508.47	508.98	508.98
<b>7.0</b>	501.33	502.35	503.37	504.39	505.41	505.92	506.43	506.94	506.94
<b>9.0</b>	493.17	495.21	497.25	498.78	500.31	501.33	502.35	502.86	502.86
<b>11.0</b>	483.48	486.54	489.09	491.64	494.19	496.23	497.25	498.27	498.27
<b>13.0</b>	471.24	475.83	479.91	483.48	486.54	489.09	491.13	492.15	492.66
<b>15.0</b>	456.96	462.57	468.18	473.28	477.36	480.93	483.48	485.01	485.52
<b>17.0</b>	441.66	448.80	455.94	462.06	467.16	471.75	474.81	476.85	477.87
<b>19.5</b>	418.71	427.89	437.07	445.23	451.86	457.98	462.06	464.61	465.63
<b>22.5</b>	387.60	399.33	411.06	421.26	430.44	438.09	443.19	446.25	447.78
<b>25.5</b>	353.43	367.71	381.48	394.23	404.94	414.12	421.26	425.34	426.87
<b>29.0</b>	310.59	326.91	343.23	358.53	371.79	383.01	391.17	396.27	397.80
<b>33.0</b>	260.10	277.95	296.31	313.14	327.93	340.68	350.37	355.98	358.02
<b>37.5</b>	202.47	221.34	239.70	257.55	273.36	287.13	297.33	303.45	306.00
<b>42.5</b>	145.86	162.69	179.52	196.35	210.63	223.89	233.58	239.70	241.74
<b>47.5</b>	99.45	112.71	125.97	139.74	151.98	163.20	171.36	176.46	177.99
<b>55.0</b>	52.53	59.67	67.83	75.99	83.64	90.27	95.88	98.94	99.96
<b>65.0</b>	20.91	23.97	27.54	30.60	33.66	36.21	38.25	39.78	39.78
<b>75.0</b>	8.16	9.18	10.20	11.22	12.24	13.26	13.77	14.28	14.28
<b>85.0</b>	1.53	2.04	2.04	2.04	2.55	2.55	2.55	2.55	2.55
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	166.33	N.A.	25.40
0-30	317.54	N.A.	48.50
0-40	443.40	N.A.	67.70
0-60	598.79	N.A.	91.40
0-80	649.18	N.A.	99.10
0-90	654.89	N.A.	100.00
10-90	616.08	N.A.	94.10
20-40	277.06	N.A.	42.30
20-50	383.78	N.A.	58.60
40-70	190.64	N.A.	29.10
60-80	50.39	N.A.	7.70
70-80	15.15	N.A.	2.30
80-90	5.70	N.A.	0.90
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	654.89	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	38.81
10-20	127.52
20-30	151.21
30-40	125.86
40-50	106.72
50-60	48.68
60-70	35.25
70-80	15.15
80-90	5.70
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

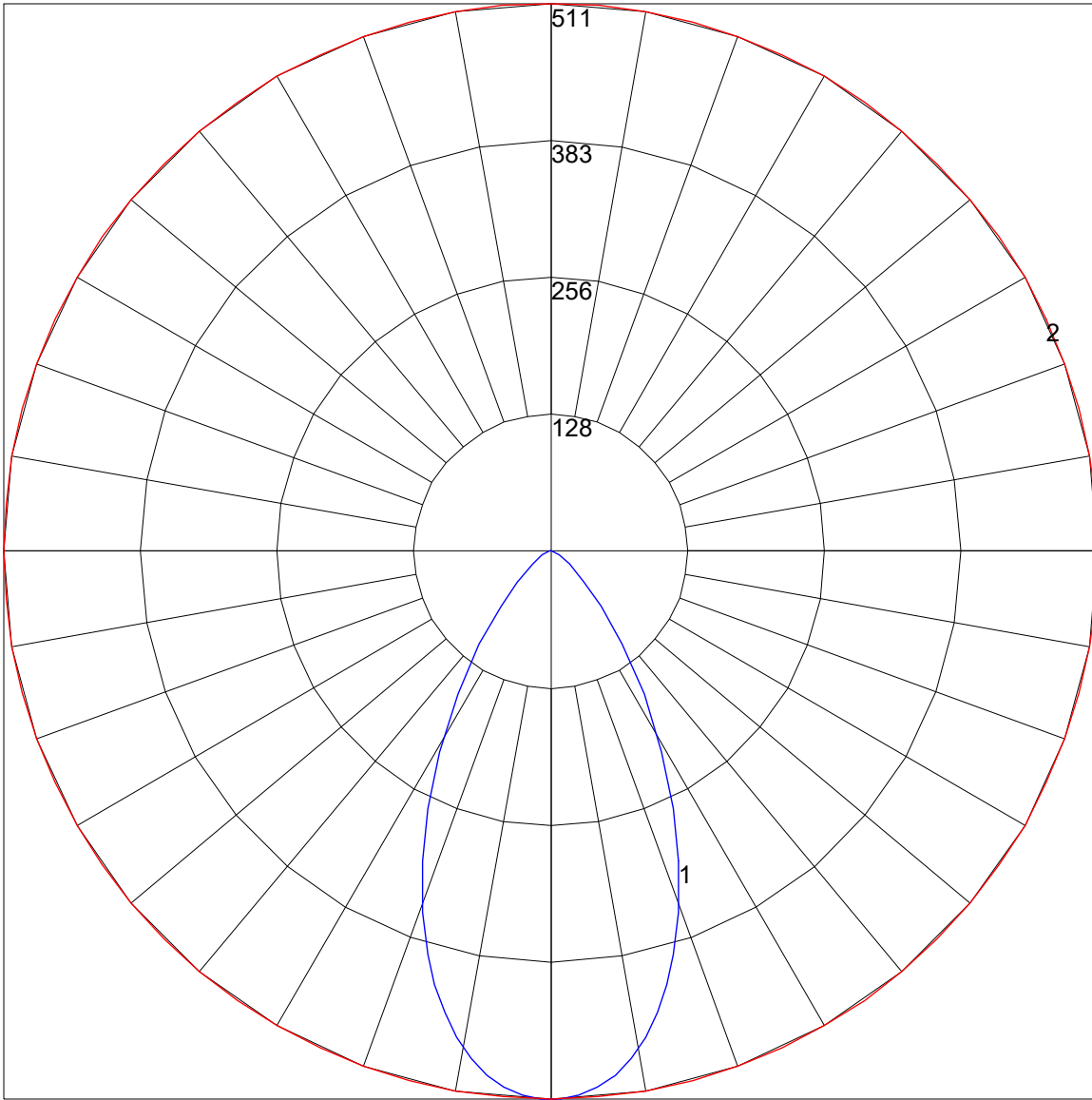
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	72	71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48
8	70	58	51	46	68	58	51	46	56	50	46	55	50	46	54	49	45	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37

POLAR GRAPH



Maximum Candela = 511.02 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.)