

IES Report

ZipThree® | Ceiling Cable | 707 | Symmetric, up | 60° Symmetric, down | 90 CRI | HO

707-Z3-XX-4-48-CC-XX-XX-XX-X-0-Z-HO-359-U1S2-0-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	87	89	91	95
Total Lumens, 4' rail length (1219mm)	9243	9535	9729	9924
Lumens per foot (305mm)	2311	2384	2432	2481
Lumens per foot UP (305mm)	1425	1470	1500	1454
Lumens per foot DOWN (305mm)	885	913	932	903
Input Power (W), 4' rail length (1219mm)	107.2	107.2	107.2	107.2
Watts per foot (305mm)	26.8	26.8	26.8	26.8
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_HO_359_U1S2_AL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L031805803R01 (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-HO-359-U1S2-AL
 [LUMINAIRE] ZipThree Suspended, 48", 3500K, 90 CRI, zipper board,
 [MORE] symmetric lens up/60° symmetric lens down, high 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	9729
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	107.19
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	5378	9629	18118
55	3374	5737	12583
65	2613	3917	8557
75	2016	2722	5763
85	985	1396	2897

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	2454.8	2454.8	2454.8	2454.8	2454.8	2454.8	2454.8	2454.8	2454.8	2454.8
1.0	2452.9	2452.9	2452.9	2452.9	2452.9	2452.9	2452.9	2452.9	2452.9	2452.9
3.0	2441.5	2441.5	2441.5	2443.4	2443.4	2443.4	2443.4	2445.3	2445.3	2445.3
5.0	2420.6	2420.6	2420.6	2422.5	2424.4	2424.4	2426.3	2428.2	2430.1	2432.0
7.0	2388.3	2388.3	2388.3	2390.2	2394.0	2395.9	2399.7	2403.5	2407.3	2411.1
9.0	2340.8	2342.7	2344.6	2346.5	2352.2	2356.0	2361.7	2369.3	2375.0	2382.6
11.0	2281.9	2283.8	2287.6	2291.4	2297.1	2306.6	2314.2	2325.6	2335.1	2344.6
13.0	2207.8	2209.7	2213.5	2221.1	2230.6	2242.0	2255.3	2268.6	2283.8	2299.0
15.0	2120.4	2122.3	2128.0	2137.5	2150.8	2166.0	2183.1	2204.0	2223.0	2243.9
17.0	2015.9	2019.7	2027.3	2038.7	2055.8	2076.7	2099.5	2126.1	2152.7	2179.3
19.5	1867.7	1871.5	1882.9	1898.1	1920.9	1947.5	1977.9	2012.1	2050.1	2084.3
22.5	1666.3	1670.1	1685.3	1706.2	1734.7	1768.9	1810.7	1854.4	1901.9	1951.3
25.5	1447.8	1453.5	1468.7	1493.4	1527.6	1571.3	1620.7	1675.8	1734.7	1795.5
29.0	1189.4	1193.2	1210.3	1238.8	1278.7	1326.2	1383.2	1449.7	1521.9	1594.1
33.0	912.0	917.7	934.8	961.4	1003.2	1052.6	1113.4	1181.8	1261.6	1343.3
37.5	653.6	659.3	674.5	699.2	733.4	779.0	834.1	900.6	978.5	1062.1
42.5	446.5	450.3	461.7	480.7	507.3	541.5	587.1	642.2	706.8	780.9
47.5	313.5	315.4	323.0	336.3	353.4	378.1	410.4	450.3	497.8	554.8
55.0	199.5	201.4	205.2	210.9	220.4	233.7	248.9	271.7	298.3	330.6
65.0	119.7	119.7	121.6	123.5	127.3	133.0	138.7	148.2	157.7	172.9
75.0	62.7	62.7	62.7	64.6	64.6	66.5	68.4	72.2	76.0	79.8
85.0	15.2	15.2	15.2	15.2	17.1	17.1	17.1	17.1	17.1	19.0
90.0	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
95.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	58.9	58.9	58.9
100.0	144.4	144.4	144.4	146.3	146.3	148.2	150.1	150.1	152.0	153.9
105.0	254.6	254.6	256.5	256.5	260.3	262.2	266.0	267.9	271.7	277.4
110.0	391.4	391.4	393.3	397.1	399.0	404.7	408.5	414.2	419.9	425.6
115.0	554.8	556.7	558.6	562.4	566.2	571.9	577.6	585.2	592.8	600.4
120.0	744.8	744.8	748.6	752.4	758.1	763.8	771.4	780.9	790.4	799.9
125.0	955.7	955.7	959.5	963.3	969.0	976.6	984.2	995.6	1005.1	1016.5
130.0	1179.9	1181.8	1183.7	1189.4	1195.1	1202.7	1210.3	1221.7	1231.2	1242.6
135.0	1407.9	1409.8	1411.7	1415.5	1421.2	1428.8	1436.4	1444.0	1453.5	1461.1
140.0	1624.5	1624.5	1628.3	1630.2	1635.9	1639.7	1645.4	1653.0	1658.7	1664.4
145.0	1816.4	1816.4	1818.3	1820.2	1824.0	1825.9	1829.7	1833.5	1837.3	1841.1
150.0	1976.0	1976.0	1976.0	1977.9	1979.8	1981.7	1981.7	1983.6	1985.5	1987.4
155.0	2103.3	2103.3	2103.3	2103.3	2105.2	2105.2	2107.1	2107.1	2109.0	2110.9
160.0	2204.0	2204.0	2204.0	2204.0	2204.0	2205.9	2205.9	2207.8	2207.8	2209.7
165.0	2280.0	2280.0	2280.0	2280.0	2281.9	2281.9	2283.8	2283.8	2285.7	2287.6
170.0	2338.9	2338.9	2338.9	2340.8	2340.8	2340.8	2342.7	2342.7	2344.6	2346.5
175.0	2380.7	2380.7	2380.7	2380.7	2380.7	2380.7	2380.7	2380.7	2382.6	2382.6
180.0	2395.9	2395.9	2395.9	2395.9	2395.9	2395.9	2395.9	2395.9	2395.9	2395.9

Vert. 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	2454.8	2454.8	2454.8	2454.8	2454.8	2454.8	2454.8	2454.8	2454.8
1.0	2452.9	2452.9	2452.9	2452.9	2452.9	2452.9	2452.9	2452.9	2452.9
3.0	2447.2	2447.2	2449.1	2449.1	2449.1	2449.1	2449.1	2451.0	2449.1
5.0	2433.9	2435.8	2437.7	2439.6	2441.5	2441.5	2443.4	2443.4	2443.4
7.0	2414.9	2418.7	2422.5	2426.3	2428.2	2430.1	2432.0	2433.9	2433.9
9.0	2388.3	2395.9	2401.6	2407.3	2411.1	2414.9	2416.8	2418.7	2420.6
11.0	2356.0	2365.5	2375.0	2382.6	2390.2	2395.9	2399.7	2401.6	2401.6
13.0	2314.2	2327.5	2340.8	2352.2	2361.7	2371.2	2375.0	2378.8	2380.7
15.0	2264.8	2283.8	2302.8	2316.1	2329.4	2340.8	2348.4	2352.2	2354.1

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CANDELA TABULATION - (Cont.)

17.0	2205.9	2232.5	2255.3	2274.3	2291.4	2304.7	2314.2	2319.9	2321.8
19.5	2120.4	2154.6	2185.0	2211.6	2234.4	2251.5	2262.9	2270.5	2274.3
22.5	1998.8	2044.4	2086.2	2122.3	2150.8	2175.5	2190.7	2200.2	2204.0
25.5	1858.2	1915.2	1968.4	2014.0	2052.0	2082.4	2103.3	2114.7	2118.5
29.0	1670.1	1742.3	1806.9	1865.8	1913.3	1951.3	1977.9	1993.1	1998.8
33.0	1430.7	1516.2	1597.9	1670.1	1729.0	1776.5	1806.9	1825.9	1833.5
37.5	1155.2	1248.3	1337.6	1421.2	1489.6	1544.7	1582.7	1605.5	1613.1
42.5	866.4	955.7	1045.0	1130.5	1200.8	1261.6	1301.5	1326.2	1333.8
47.5	623.2	697.3	775.2	853.1	919.6	976.6	1016.5	1041.2	1048.8
55.0	372.4	418.0	467.4	520.6	568.1	611.8	644.1	665.0	672.6
65.0	188.1	209.0	231.8	254.6	279.3	302.1	321.1	332.5	338.2
75.0	85.5	93.1	100.7	110.2	119.7	127.3	134.9	140.6	140.6
85.0	19.0	19.0	20.9	20.9	22.8	22.8	24.7	24.7	24.7
90.0	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0
95.0	58.9	58.9	58.9	58.9	58.9	58.9	57.0	57.0	57.0
100.0	155.8	157.7	159.6	161.5	161.5	161.5	161.5	161.5	161.5
105.0	281.2	283.1	288.8	290.7	292.6	294.5	296.4	296.4	296.4
110.0	433.2	438.9	444.6	448.4	452.2	456.0	457.9	457.9	459.8
115.0	609.9	617.5	625.1	630.8	636.5	640.3	642.2	644.1	644.1
120.0	809.4	818.9	828.4	834.1	839.8	845.5	849.3	851.2	853.1
125.0	1027.9	1037.4	1045.0	1052.6	1058.3	1064.0	1067.8	1071.6	1073.5
130.0	1252.1	1261.6	1269.2	1274.9	1280.6	1286.3	1290.1	1293.9	1295.8
135.0	1470.6	1476.3	1482.0	1487.7	1493.4	1497.2	1502.9	1508.6	1510.5
140.0	1670.1	1673.9	1677.7	1683.4	1687.2	1692.9	1698.6	1702.4	1704.3
145.0	1843.0	1846.8	1850.6	1854.4	1858.2	1863.9	1867.7	1871.5	1875.3
150.0	1991.2	1993.1	1995.0	1998.8	2004.5	2008.3	2014.0	2015.9	2017.8
155.0	2112.8	2114.7	2118.5	2122.3	2126.1	2129.9	2133.7	2135.6	2137.5
160.0	2211.6	2215.4	2217.3	2221.1	2223.0	2226.8	2228.7	2230.6	2232.5
165.0	2289.5	2291.4	2293.3	2297.1	2299.0	2300.9	2302.8	2304.7	2304.7
170.0	2346.5	2348.4	2350.3	2352.2	2352.2	2354.1	2356.0	2356.0	2356.0
175.0	2382.6	2382.6	2384.5	2384.5	2384.5	2384.5	2384.5	2384.5	2386.4
180.0	2395.9	2395.9	2395.9	2395.9	2395.9	2395.9	2395.9	2395.9	2395.9

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	819.22	N.A.	8.40
0-30	1603.57	N.A.	16.50
0-40	2288.06	N.A.	23.50
0-60	3236.72	N.A.	33.30
0-80	3663.01	N.A.	37.60
0-90	3728.15	N.A.	38.30
10-90	3541.09	N.A.	36.40
20-40	1468.84	N.A.	15.10
20-50	2094.73	N.A.	21.50
40-70	1225.68	N.A.	12.60
60-80	426.30	N.A.	4.40
70-80	149.27	N.A.	1.50
80-90	65.14	N.A.	0.70
90-110	372.75	N.A.	3.80
90-120	973.18	N.A.	10.00
90-130	1882.53	N.A.	19.30
90-150	4154.85	N.A.	42.70
90-180	6000.99	N.A.	61.70
110-180	5628.24	N.A.	57.80
0-180	9729.14	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	187.06
10-20	632.16
20-30	784.35
30-40	684.49
40-50	625.89
50-60	322.76
60-70	277.03
70-80	149.27
80-90	65.14
90-100	74.11
100-110	298.64
110-120	600.43
120-130	909.35
130-140	1123.19
140-150	1149.13
150-160	973.66
160-170	646.17
170-180	226.30

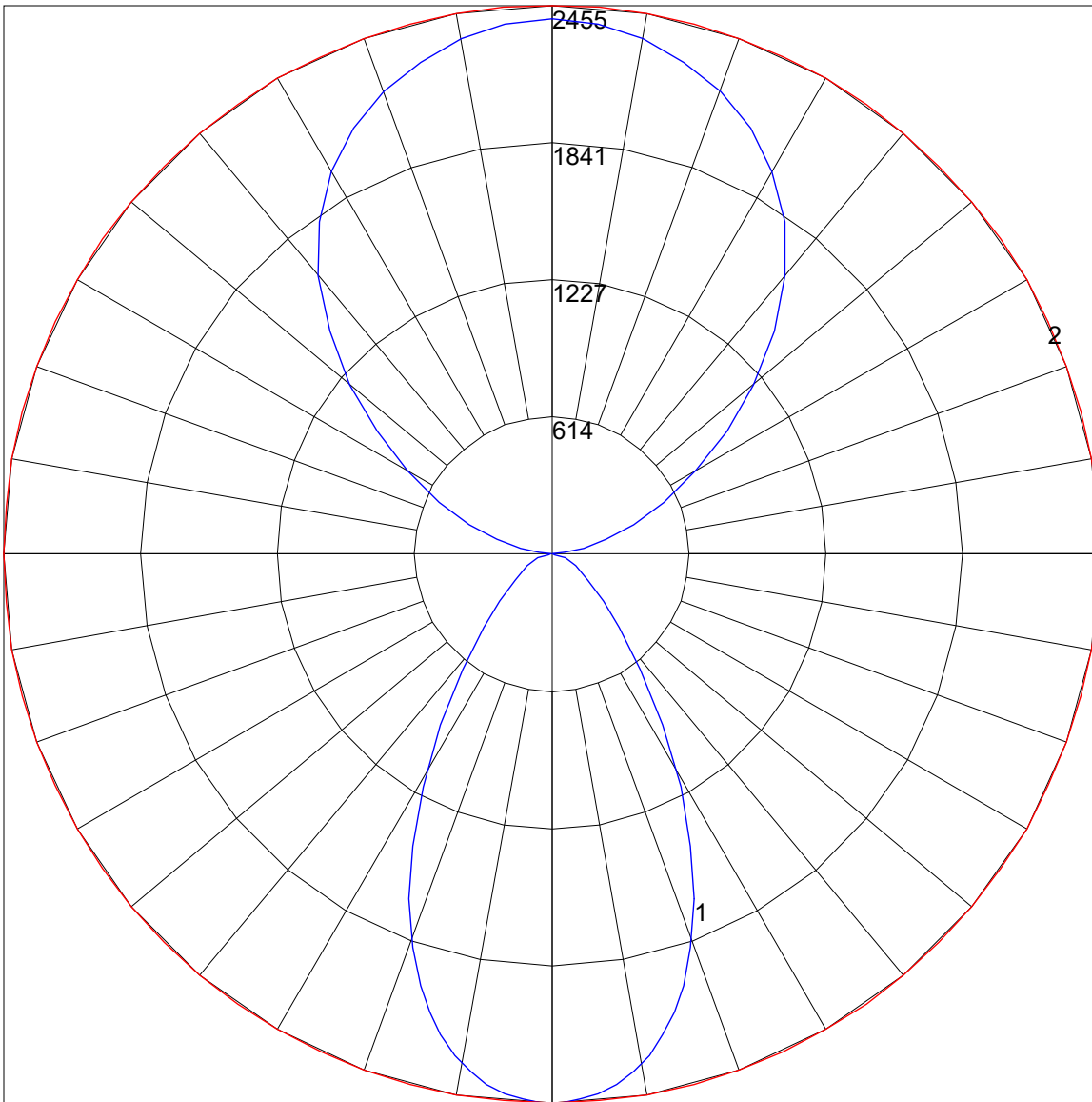
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	0
1	96	92	88	85	87	83	80	78	68	66	64	54	53	51	41	40	39	33	0
2	88	81	75	70	80	74	69	65	61	57	54	48	46	44	37	36	34	29	0
3	81	72	65	60	73	66	60	55	54	50	46	43	41	38	33	32	30	26	0
4	74	64	57	51	67	59	52	47	49	44	40	39	36	33	30	28	27	23	0
5	68	57	50	44	62	53	46	41	44	39	35	36	32	29	28	26	24	20	0
6	63	52	44	39	57	48	41	36	40	35	31	32	29	26	26	23	21	18	0
7	59	47	40	34	53	43	37	32	36	31	28	30	26	24	24	21	19	17	0
8	54	43	36	31	50	40	33	29	33	28	25	27	24	21	22	19	18	15	0
9	51	39	32	27	46	36	30	26	31	26	23	25	22	19	20	18	16	14	0
10	48	36	29	25	43	34	27	23	28	24	20	24	20	18	19	17	15	13	0

POLAR GRAPH



Maximum Candela = 2454.8 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.)