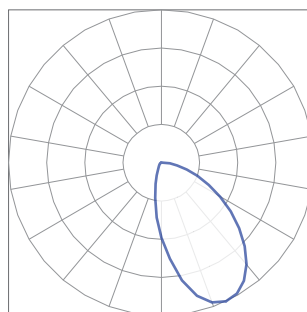


ZipTwo™ | 707

707-Z2-4-48-X-X-X-0-Z-LO-35-A1-0-BL

The performance data in black text is confirmed through third party testing (see the following Light Laboratory report for details). The performance data in grey text is calculated by Vode, for reference only.

Technical Support: (707) 996-9898



Details

Rail Type / Length	ZipTwo, 48"
LED Type	Zipper Board
Lumen Output	Low Output
Color Temperature	3500K, 80+ CRI
Optics	85° Black Asymmetric

Performance Summary

	2700K	3000K	3500K	4000K
Color Temperature	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	39	40	41	42
Total Lumens, 4' rail (1219mm)	628	648	661	675
Lumens per foot (305mm)	157	162	165	169
Input Power (W), 4' rail (1219mm)	16.3	16.3	16.3	16.3
Watts per foot (305mm)	4.1	4.1	4.1	4.1
CRI	-	-	85	-

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IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_LO_35_A1-BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L071704229 (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-35-A1-BL
[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board,
[MORE] 85° black asymmetric lens, low output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	660
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	41
Total Luminaire Watts	16.25
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.10
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.06 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	24490	20496	6833
55	21615	16463	4707
65	18172	12482	3277
75	14854	9368	2455
85	14487	7820	1630

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_LO_35_A1-BL.IES

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	246.514	246.514	246.514	246.514	246.514	246.514	246.514	246.514	246.514	246.514
5	316.092	315.750	314.918	313.644	311.732	309.331	306.588	303.112	299.484	295.419
10	393.011	392.521	390.804	388.061	384.391	379.541	373.464	366.555	358.767	349.705
15	452.194	451.456	449.497	446.022	441.220	434.848	426.965	417.850	407.218	395.312
20	488.839	488.302	486.048	482.520	477.522	470.808	462.578	452.241	439.992	425.886
25	502.361	501.771	500.060	496.727	491.777	485.263	477.227	466.843	454.347	439.798
30	496.479	495.795	494.031	491.045	486.437	480.219	472.330	462.235	449.893	435.390
35	473.062	472.478	470.808	468.017	463.410	457.433	449.692	439.751	427.355	413.100
40	435.733	435.290	433.721	430.783	426.328	420.351	412.410	402.516	389.677	375.033
45	388.409	387.819	386.055	383.211	378.509	372.042	363.369	352.643	339.905	325.060
50	334.318	333.680	331.869	328.783	323.981	316.924	307.667	296.593	283.513	268.521
55	278.079	277.536	275.725	272.539	267.541	260.491	251.423	239.864	226.342	211.792
60	222.719	222.176	220.465	217.279	212.624	205.863	197.337	186.953	174.457	161.330
65	172.256	171.767	170.244	167.501	163.094	157.070	149.476	140.019	129.287	118.313
70	125.906	125.469	124.195	121.894	118.265	113.315	107.191	99.651	91.273	82.795
75	86.228	85.880	84.901	83.042	80.246	76.576	71.968	66.481	60.404	54.380
80	53.596	53.301	52.522	51.147	49.235	46.592	43.507	39.831	35.960	32.090
85	28.320	28.119	27.535	26.650	25.376	23.712	21.800	19.694	17.440	15.287
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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>	<u>95</u>
0	246.514	246.514	246.514	246.514	246.514	246.514	246.514	246.514	246.514	246.514
5	290.717	285.914	280.675	275.135	269.553	263.872	257.694	251.771	245.936	239.569
10	339.710	329.273	317.857	305.708	293.655	280.675	267.541	254.803	242.065	228.696
15	380.810	365.871	349.068	330.990	312.665	293.360	273.424	254.072	234.962	215.267
20	409.425	391.642	371.016	348.430	325.013	300.564	274.598	248.585	223.846	196.653
25	422.357	402.321	380.273	354.850	327.898	299.336	268.721	238.738	208.707	180.434
30	417.950	397.518	374.591	348.773	320.016	287.236	254.662	221.834	189.791	158.391
35	396.291	375.470	352.790	326.040	297.330	264.898	231.581	195.626	165.448	135.169
40	358.177	338.335	315.750	290.274	262.792	231.929	195.821	169.118	136.933	109.935
45	307.667	288.510	267.152	243.587	218.601	190.086	162.993	135.169	108.371	85.686
50	250.986	233.150	213.651	190.918	172.156	149.081	125.517	103.179	82.647	64.375
55	194.788	180.387	163.389	145.801	128.508	110.867	92.347	75.691	60.552	49.088
60	147.270	133.647	119.640	105.722	92.447	79.320	66.186	54.333	43.554	34.149
65	106.849	95.975	85.149	75.007	65.012	55.607	46.545	38.409	31.063	24.591
70	74.175	65.891	58.298	51.000	44.238	37.919	31.795	26.503	21.653	17.440
75	48.404	42.964	37.677	32.875	28.515	24.497	20.626	17.293	14.254	11.611
80	28.267	24.939	21.653	18.815	16.266	13.912	11.711	9.800	8.083	6.614
85	13.275	11.416	9.800	8.278	6.956	5.876	4.803	3.918	3.186	2.596
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles **Horizontal Angles**

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0	246.514	246.514	246.514	246.514	246.514	246.514	246.514	246.514	246.514	246.514
5	233.835	228.059	222.666	217.279	212.282	207.674	203.367	199.149	195.673	192.340
10	216.495	204.441	193.420	183.036	172.941	163.973	155.548	148.001	141.488	135.659
15	197.632	180.292	164.663	150.356	137.081	125.564	115.079	106.017	98.571	92.005
20	177.059	155.795	137.175	120.130	105.870	93.232	82.848	73.880	66.676	60.652
25	154.863	131.936	110.719	93.963	79.856	68.245	58.888	50.905	45.218	40.421
30	131.540	108.271	88.134	72.263	59.230	49.631	41.595	35.571	31.158	27.730
35	108.176	86.370	68.198	54.427	43.453	35.713	29.883	25.476	22.196	19.842

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_LO_35_A1-BL.IES

CANDELA TABULATION - (Cont.)

40	86.423	66.776	51.442	40.562	31.990	26.113	21.848	18.668	16.414	14.797
45	66.239	50.805	38.604	30.279	23.860	19.647	16.561	14.307	12.638	11.464
50	49.920	37.430	29.004	22.880	18.373	15.187	12.986	11.269	10.042	9.163
55	36.403	28.025	21.995	17.635	14.307	12.054	10.290	9.062	8.083	7.399
60	26.845	21.216	16.756	13.670	11.369	9.652	8.331	7.298	6.514	5.929
65	19.647	15.824	12.738	10.531	8.767	7.546	6.567	5.782	5.192	4.655
70	14.160	11.564	9.458	7.841	6.614	5.735	4.950	4.360	3.971	3.628
75	9.505	7.841	6.466	5.440	4.655	4.018	3.528	3.086	2.791	2.502
80	5.440	4.555	3.823	3.280	2.791	2.448	2.153	1.912	1.717	1.569
85	2.153	1.864	1.617	1.375	1.227	1.127	1.027	0.932	0.832	0.785
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles **Horizontal Angles**

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	246.514	246.514	246.514	246.514	246.514	246.514	246.514
5	189.402	187.000	184.941	183.378	182.198	181.561	181.366
10	130.661	126.543	123.115	120.566	118.708	117.628	117.286
15	86.470	82.110	78.488	75.791	73.980	72.900	72.505
20	55.802	52.079	49.430	47.082	45.660	44.781	44.486
25	36.745	34.002	31.842	30.326	29.299	28.709	28.515
30	25.087	23.175	21.706	20.674	19.989	19.600	19.499
35	18.030	16.709	15.777	15.039	14.602	14.307	14.207
40	13.523	12.638	11.953	11.464	11.121	10.927	10.874
45	10.585	9.894	9.405	9.015	8.820	8.620	8.620
50	8.478	7.935	7.546	7.251	7.056	6.956	6.956
55	6.809	6.419	6.077	5.829	5.682	5.587	5.587
60	5.440	5.145	4.850	4.655	4.508	4.407	4.407
65	4.260	3.971	3.770	3.575	3.481	3.428	3.428
70	3.233	3.038	2.844	2.696	2.596	2.549	2.549
75	2.301	2.153	2.012	1.912	1.864	1.764	1.764
80	1.422	1.322	1.274	1.174	1.174	1.174	1.174
85	0.737	0.684	0.684	0.637	0.590	0.590	0.590
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	94.15	N.A.	14.30
0-30	205.04	N.A.	31.10
0-40	337.02	N.A.	51.10
0-60	557.44	N.A.	84.50
0-80	650.11	N.A.	98.60
0-90	659.51	N.A.	100.00
10-90	635.87	N.A.	96.40
20-40	242.88	N.A.	36.80
20-50	367.64	N.A.	55.70
40-70	281.64	N.A.	42.70
60-80	92.67	N.A.	14.10
70-80	31.45	N.A.	4.80
80-90	9.40	N.A.	1.40
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	659.51	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	23.64
10-20	70.50
20-30	110.89
30-40	131.98
40-50	124.76
50-60	95.66
60-70	61.21
70-80	31.45
80-90	9.40
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

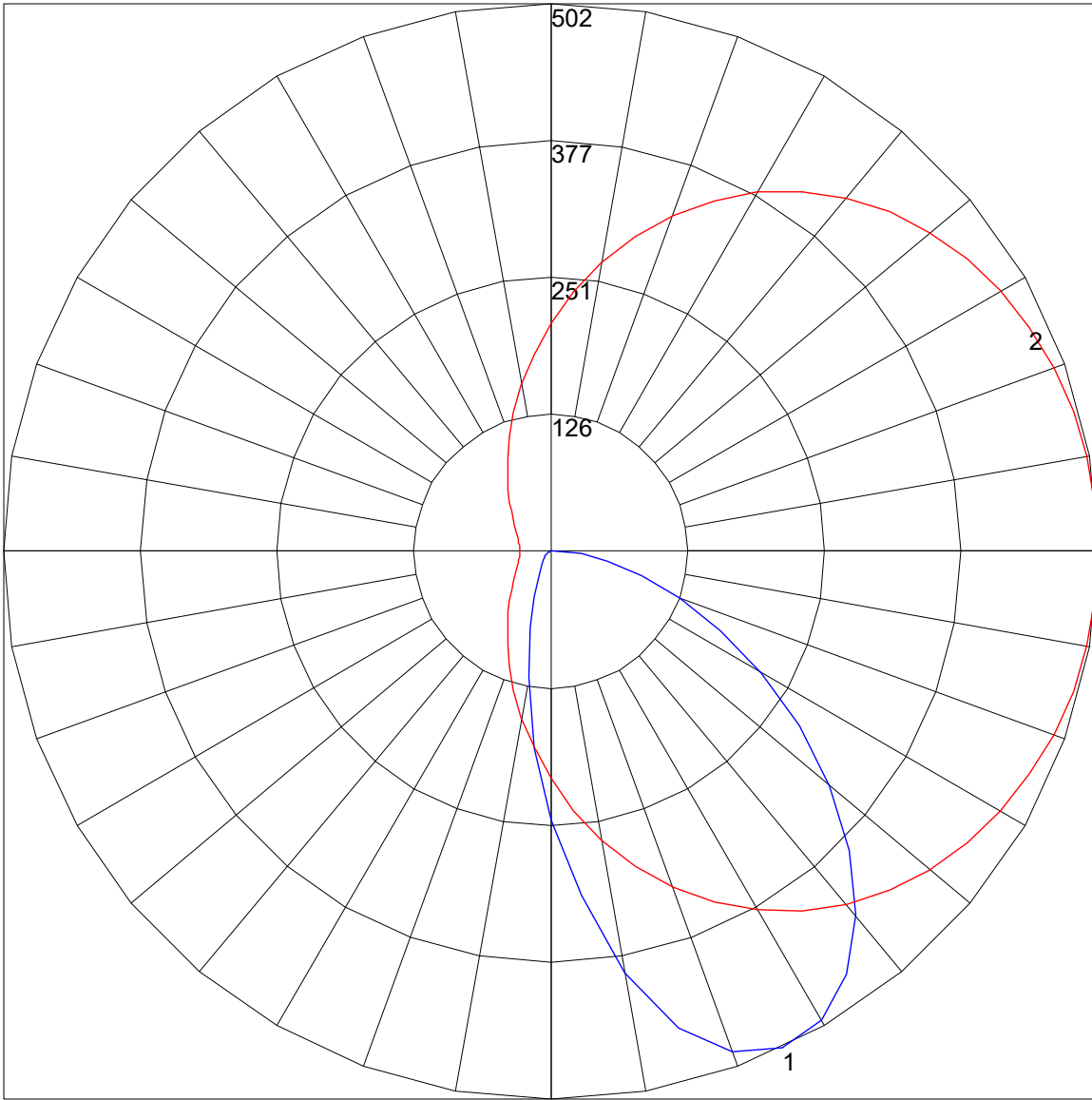
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_LO_35_A1-BL.IES

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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	54	50	59	53	49	47
6	72	59	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27

POLAR GRAPH



Maximum Candela = 502.361 Located At Horizontal Angle = 0, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)