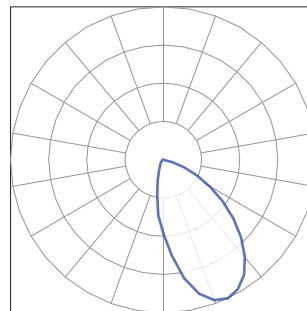


BoxRail® | 107

107-BX-X-4-48-X-X-X-X-X-Z-LO-35-A1-X-BL-X

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	BoxRail, 48"
LED Type	Zipper Board
Lumen Output	Low Output
Color Temperature	3500K, 80+ CRI
Optics	85° Black Asymmetric Lens

Performance Summary

	2700K	3000K	3500K	4000K
Color Temperature	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	35	36	36	37
Total Lumens, 4' rail (1219mm)	511	527	538	548
Lumens per foot (305mm)	128	132	134	137
Input Power (W), 4' rail (1219mm)	15.0	15.0	15.0	15.0
Watts per foot (305mm)	3.8	3.8	3.8	3.8
CRI	-	-	85	-

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IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_BX_LO_35_A1-BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L071704213 (SOURCE REPORT FOR REFERENCE)
 [TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
 [ISSUEDATE] 11/1/2017
 [MANUFAC] Vode Lighting
 [LUMCAT] 107-BX-48-Z-LO-35-A1-BL
 [LUMINAIRE] BoxRail 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	536
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	36
Total Luminaire Watts	14.95
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.06
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.04 ft
Luminous Width (90-270)	3.83 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	32089	26924	8735
55	25961	20403	5804
65	18065	13931	4012
75	7228	8119	2964
85	0	0	1853

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_BX_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	217.191	217.191	217.191	217.191	217.191	217.191	217.191	217.191	217.191	217.191
5	282.781	282.586	281.607	279.990	276.899	273.424	269.748	265.583	261.175	256.520
10	353.622	353.085	351.321	348.330	343.628	337.799	331.137	323.786	315.656	306.346
15	406.829	406.191	404.085	400.457	395.117	388.261	380.031	370.573	359.841	347.793
20	438.571	437.839	435.685	432.157	426.965	419.956	411.625	401.489	389.335	375.765
25	448.370	447.686	445.875	442.789	437.886	431.373	423.531	413.537	401.536	387.624
30	438.476	437.939	436.323	433.626	429.313	423.531	416.280	406.829	395.217	381.742
35	412.611	412.168	410.793	408.392	404.280	399.282	392.474	383.411	372.089	358.962
40	372.437	372.042	370.821	368.467	364.791	359.794	352.938	344.017	332.801	319.868
45	323.249	322.807	321.579	319.426	315.851	310.605	303.602	294.929	283.955	271.217
50	268.869	268.574	267.494	265.583	262.397	257.157	250.054	241.233	230.454	218.158
55	212.134	211.987	211.155	209.491	206.647	202.040	195.626	188.228	178.280	166.716
60	158.633	158.539	158.096	156.969	154.863	151.288	146.237	139.334	130.809	121.546
65	108.761	108.713	108.613	108.224	107.097	104.990	101.610	96.707	90.589	83.874
70	64.865	65.012	65.354	65.696	65.750	65.207	63.785	61.242	57.761	53.696
75	26.650	26.898	27.730	28.904	30.326	31.500	32.285	32.238	31.406	29.937
80	1.764	1.864	2.153	2.549	3.233	4.313	5.782	7.694	9.605	10.927
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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>	<u>95</u>
0	217.191	217.191	217.191	217.191	217.191	217.191	217.191	217.191	217.191	217.191
5	251.423	246.231	240.844	235.504	230.407	225.262	219.828	214.630	209.438	204.051
10	296.351	285.867	274.745	263.577	252.455	240.744	228.938	217.621	206.305	194.694
15	333.586	319.131	303.112	286.356	269.648	251.965	234.035	216.937	199.986	182.835
20	359.841	342.501	322.907	302.180	280.722	258.626	235.357	212.819	191.018	169.171
25	370.915	351.516	330.595	307.768	282.586	256.768	229.333	203.609	177.254	152.072
30	365.133	345.687	324.175	300.416	273.518	244.714	214.778	187.785	159.270	132.573
35	343.238	324.376	302.770	278.468	252.355	217.669	194.936	165.937	137.322	111.846
40	304.776	286.746	266.320	243.393	216.984	192.782	165.690	138.060	112.047	89.951
45	256.078	239.080	220.465	200.570	179.112	155.648	131.641	108.955	87.987	69.177
50	200.765	189.254	172.693	155.205	137.376	118.413	99.356	81.721	65.602	51.342
55	154.078	141.340	127.670	113.711	99.893	86.028	71.579	58.888	47.424	37.329
60	111.309	101.214	91.078	80.641	70.257	60.310	50.610	41.937	34.002	27.140
65	76.476	69.030	61.826	54.870	47.867	41.200	34.834	29.246	24.155	19.741
70	49.141	44.486	39.978	35.471	31.353	27.287	23.222	19.942	16.856	14.113
75	27.925	25.718	23.270	21.069	18.862	16.709	14.455	12.638	10.927	9.458
80	11.416	11.316	10.826	10.142	9.357	8.525	7.694	6.761	6.124	5.440
85	0.147	0.537	1.274	2.059	2.502	2.643	2.596	2.448	2.301	2.153
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. 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	217.191	217.191	217.191	217.191	217.191	217.191	217.191	217.191	217.191	217.191
5	199.007	194.299	189.791	185.579	182.003	178.622	175.637	172.840	170.587	168.628
10	184.015	173.773	164.368	155.595	147.122	139.871	133.210	127.328	122.431	117.970
15	167.353	152.509	139.187	127.086	115.917	106.412	97.834	90.535	84.606	79.414
20	149.718	131.393	115.622	101.362	89.361	78.924	70.399	63.248	57.466	52.616
25	130.071	110.719	93.332	78.877	67.166	57.714	49.825	44.433	39.093	35.276
30	109.840	90.240	73.632	60.504	49.631	43.259	35.618	30.816	27.287	24.544
35	89.951	71.431	56.587	45.513	36.692	30.521	25.919	22.390	19.842	18.030

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_BX_LO_35_A1-BL.IES

CANDELA TABULATION - (Cont.)

40	70.888	54.970	43.943	34.149	27.388	22.780	19.499	16.951	15.287	14.012
45	53.790	43.064	32.332	25.818	20.921	17.688	15.381	13.717	12.490	11.564
50	41.005	30.863	24.450	19.889	16.561	14.207	12.591	11.464	10.632	10.042
55	29.447	23.323	18.909	15.777	13.476	11.953	10.779	9.995	9.405	8.968
60	21.995	17.977	14.945	12.738	11.269	10.142	9.357	8.820	8.425	8.130
65	16.361	13.717	11.759	10.384	9.357	8.620	8.083	7.741	7.499	7.251
70	12.001	10.337	9.115	8.230	7.593	7.151	6.862	6.614	6.419	6.319
75	8.183	7.298	6.614	6.171	5.829	5.587	5.387	5.292	5.192	5.098
80	4.850	4.460	4.213	4.065	3.870	3.870	3.770	3.770	3.723	3.676
85	2.106	2.106	2.059	2.059	2.012	1.864	1.764	1.569	1.516	1.422
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	217.191	217.191	217.191	217.191	217.191	217.191	217.191
5	167.159	166.132	165.300	165.005	165.005	164.516	164.221
10	114.301	111.457	109.203	107.687	106.902	105.870	105.527
15	75.201	71.921	69.225	67.366	66.334	65.307	64.965
20	48.799	46.250	43.849	42.279	41.300	40.515	40.273
25	32.385	30.226	28.562	27.388	26.650	26.161	25.966
30	22.485	20.969	19.842	19.104	18.567	18.225	18.125
35	16.561	15.582	14.844	14.355	14.012	13.765	13.717
40	13.127	12.396	11.906	11.564	11.369	11.169	11.169
45	10.974	10.484	10.142	9.947	9.800	9.652	9.605
50	9.605	9.257	9.015	8.868	8.720	8.673	8.620
55	8.673	8.478	8.278	8.183	8.083	8.083	8.036
60	7.888	7.741	7.640	7.593	7.499	7.499	7.446
65	7.151	7.003	6.909	6.862	6.862	6.809	6.761
70	6.224	6.171	6.077	6.077	6.024	5.977	5.977
75	5.098	4.997	4.997	4.997	4.997	4.997	4.997
80	3.723	3.676	3.676	3.676	3.628	3.628	3.628
85	1.375	1.375	1.375	1.322	1.322	1.375	1.375
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	82.40	N.A.	15.40
0-30	179.41	N.A.	33.50
0-40	293.18	N.A.	54.70
0-60	472.94	N.A.	88.20
0-80	533.95	N.A.	99.60
0-90	536.16	N.A.	100.00
10-90	515.51	N.A.	96.10
20-40	210.78	N.A.	39.30
20-50	314.87	N.A.	58.70
40-70	223.68	N.A.	41.70
60-80	61.01	N.A.	11.40
70-80	17.09	N.A.	3.20
80-90	2.21	N.A.	0.40
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	536.16	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	20.66
10-20	61.74
20-30	97.01
30-40	113.77
40-50	104.09
50-60	75.67
60-70	43.92
70-80	17.09
80-90	2.21
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

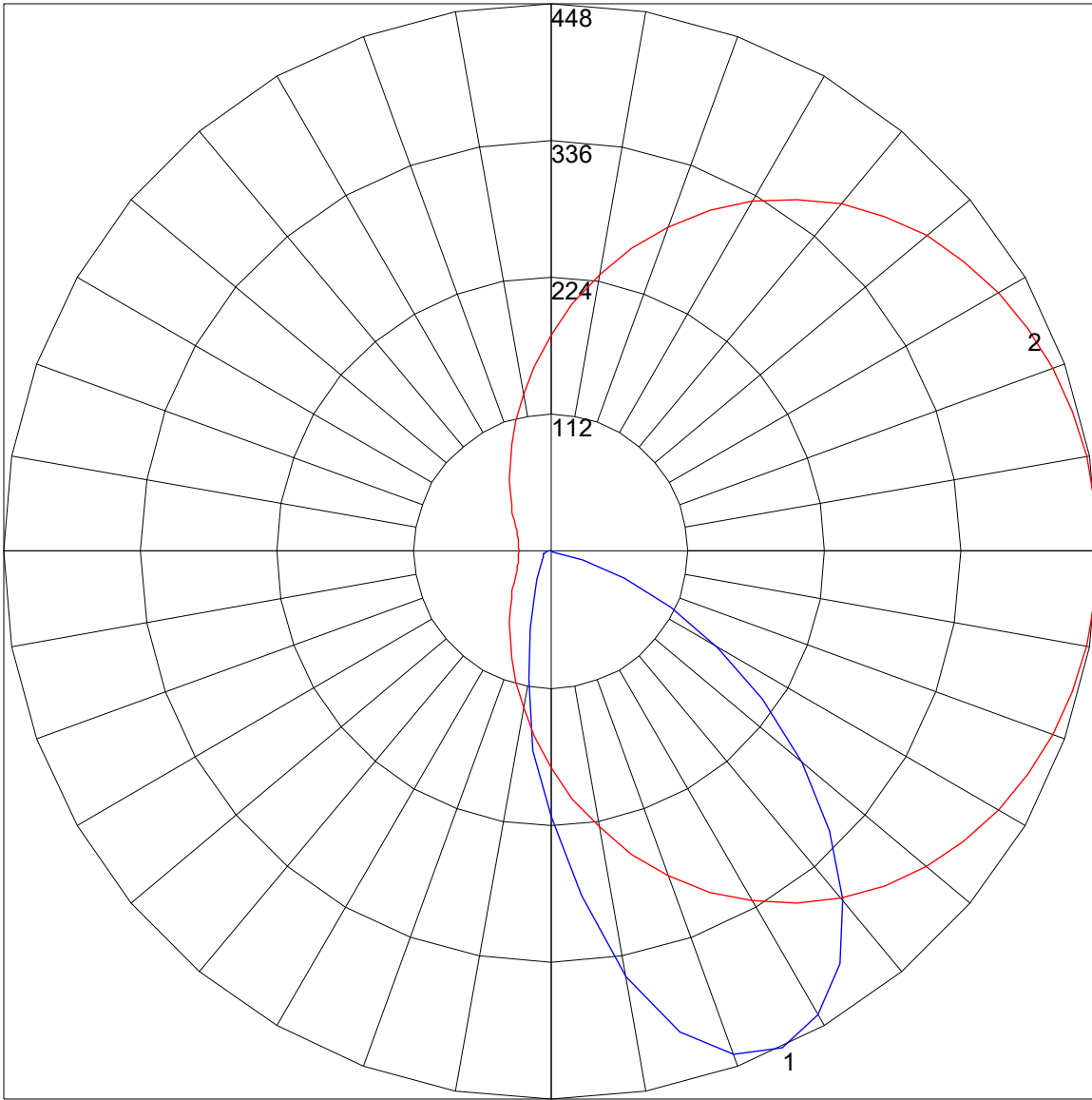
IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	94	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	59	47	39	34	45	39	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

POLAR GRAPH



Maximum Candela = 448.37 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.)