

IES Report

BoxRail® | 107 | 85° Asymmetric | 80 CRI | LO

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	52	53	54	54
Total Lumens, 4' rail length (1219mm)	705	728	742	742
Lumens per foot (305mm)	176	182	186	186
Input Power (W), 4' rail length (1219mm)	13.8	13.8	13.8	13.8
Watts per foot (305mm)	3.5	3.5	3.5	3.5
CRI	82	82	82	82

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_107_BX_LO_35_A1_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911514 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 107-BX-48-Z-LO-35-A1-BL

[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board, 85° black asymmetric lens,

[MORE] low output, black anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	743
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	54
Total Luminaire Watts	13.82
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.52
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	1.08
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.04 ft
Luminous Width (90-270)	3.84 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	36170	28276	14335
55	28782	20462	8783
65	19314	13725	5710
75	7128	8141	3946
85	0	80	2343

IES INDOOR REPORT
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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	455.950	455.950	455.950	455.950	455.950	455.950	455.950	455.950	455.950	455.950
5	497.072	497.460	497.460	496.341	494.154	492.159	489.387	486.666	483.703	480.246
10	540.827	540.873	540.873	538.443	535.479	532.075	528.136	523.566	518.172	512.436
15	559.108	558.720	558.233	555.657	552.641	548.848	544.034	538.733	532.028	524.784
20	557.067	556.771	555.947	553.616	550.258	546.128	541.070	534.946	527.701	519.384
25	541.117	540.438	539.029	536.691	532.950	528.136	522.742	515.643	507.135	497.652
30	511.073	510.684	509.130	506.212	501.787	496.387	489.294	480.733	470.571	459.540
35	472.277	471.691	469.551	466.001	460.804	453.896	445.486	434.936	422.687	409.555
40	422.489	421.712	419.236	415.297	409.120	400.757	390.595	378.491	364.878	349.955
45	365.313	364.489	361.816	357.587	351.167	342.026	330.310	316.842	302.163	285.580
50	301.142	300.411	298.271	294.333	288.011	278.968	267.740	254.028	238.618	223.010
55	235.799	235.312	233.415	230.306	224.762	216.839	206.822	195.298	181.540	167.637
60	173.861	173.519	172.353	170.114	166.274	160.196	152.418	142.744	131.805	120.814
65	116.586	116.441	116.000	115.078	113.036	109.440	104.481	97.968	90.480	82.847
70	67.193	67.286	67.582	67.970	67.825	66.851	64.809	61.648	57.611	53.238
75	26.349	26.547	27.370	28.687	30.195	31.453	32.283	32.329	31.506	30.096
80	2.140	2.187	2.430	2.917	3.695	4.860	6.421	8.364	10.208	11.571
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.099
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	455.950	455.950	455.950	455.950	455.950	455.950	455.950	455.950	455.950	455.950
5	476.847	472.613	468.240	465.131	459.343	453.409	448.259	468.483	462.846	457.255
10	505.772	498.284	490.164	482.438	472.132	461.431	450.492	463.524	451.907	439.507
15	516.177	506.404	495.465	484.091	470.769	455.451	440.237	446.797	430.464	413.012
20	509.663	498.527	486.133	473.002	456.866	439.118	420.448	420.738	400.322	377.180
25	486.666	474.028	460.021	445.486	428.278	407.856	386.854	381.698	358.365	333.570
30	447.238	433.237	417.675	401.198	383.206	362.790	341.150	332.207	307.214	282.182
35	395.363	379.558	362.883	345.187	327.103	306.977	285.047	274.009	250.920	226.902
40	333.372	316.309	299.100	281.694	264.190	245.665	226.217	215.279	195.495	174.151
45	268.470	251.888	235.068	218.683	202.200	187.763	171.378	160.927	144.785	127.037
50	206.770	192.137	176.970	162.771	149.692	137.100	124.317	115.275	103.020	90.039
55	153.584	140.702	128.110	117.119	106.621	97.040	89.552	80.951	71.955	62.524
60	109.875	99.621	90.526	82.360	74.971	67.918	61.358	56.492	50.222	43.807
65	75.458	68.063	61.793	56.202	50.999	46.238	42.688	38.605	34.469	30.288
70	48.813	44.289	40.351	36.807	33.594	30.676	28.490	25.862	23.188	20.468
75	28.200	26.106	24.163	22.266	20.515	18.862	17.696	16.188	14.587	12.980
80	12.203	12.157	11.716	11.182	10.452	9.773	9.332	8.706	7.923	7.099
85	0.342	0.974	1.995	2.917	3.207	3.260	3.207	3.115	2.917	2.720
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	455.950	455.950	455.950	455.950	455.950	455.950	455.950	455.950	455.950	455.950
5	452.000	446.652	441.595	436.444	431.729	427.501	423.075	419.381	415.634	411.794
10	427.982	416.266	404.405	393.124	381.605	371.148	361.427	351.851	343.145	334.979
15	395.850	378.003	360.163	343.290	325.937	310.230	295.353	281.109	268.563	256.899
20	355.395	332.549	309.743	288.353	266.330	247.271	229.431	212.750	198.267	185.281
25	308.775	282.814	256.946	233.369	209.299	188.784	170.456	153.584	139.484	126.649
30	256.070	230.840	205.071	181.343	158.589	139.293	122.467	107.497	95.050	84.593
35	203.563	178.478	154.895	133.847	113.813	97.579	83.816	71.810	62.472	54.938

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_BX_LO_35_A1_BL.IES

CANDELA TABULATION - (Cont.)

40	153.485	131.805	112.746	95.584	79.733	67.239	56.933	48.326	41.371	36.366
45	110.560	94.122	79.588	66.706	55.036	45.895	39.382	32.816	28.298	24.696
50	77.935	66.074	55.570	46.139	39.573	32.329	27.324	23.241	20.225	17.841
55	53.917	45.895	40.159	32.184	27.080	22.898	19.546	16.872	14.923	13.369
60	37.828	32.428	27.422	23.287	19.645	16.919	14.686	12.934	11.617	10.597
65	26.402	22.753	19.494	16.774	14.390	12.592	11.182	10.017	9.141	8.410
70	18.038	15.706	13.665	11.913	10.504	9.332	8.364	7.633	7.001	6.513
75	11.617	10.260	9.042	8.074	7.198	6.513	5.933	5.493	5.104	4.768
80	6.421	5.788	5.203	4.768	4.327	4.037	3.695	3.451	3.260	3.115
85	2.529	2.332	2.187	2.088	1.943	1.850	1.752	1.508	1.409	1.264
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	455.950	455.950	455.950	455.950	455.950	455.950	455.950
5	408.685	405.379	403.286	402.462	401.290	445.684	446.409
10	327.735	321.169	315.822	312.759	310.375	352.918	353.551
15	246.738	237.788	230.596	226.415	222.575	258.112	258.645
20	173.907	164.378	156.791	151.885	147.946	173.907	174.151
25	116.731	108.274	101.610	97.283	93.977	110.362	110.560
30	76.525	69.867	64.612	61.306	58.731	68.695	68.649
35	48.958	43.999	40.351	38.309	36.511	42.247	42.299
40	32.184	29.122	26.645	25.184	24.116	27.469	27.515
45	21.976	19.981	18.427	17.452	16.820	18.815	18.769
50	16.095	14.778	13.711	13.079	12.638	13.856	13.810
55	12.203	11.327	10.649	10.208	9.918	10.695	10.695
60	9.773	9.141	8.706	8.364	8.120	8.607	8.654
65	7.876	7.389	7.047	6.809	6.612	6.954	6.902
70	6.125	5.788	5.545	5.348	5.203	5.446	5.446
75	4.524	4.280	4.135	3.985	3.892	4.037	3.985
80	2.964	2.819	2.674	2.674	2.575	2.627	2.627
85	1.119	1.067	1.021	0.974	0.922	0.974	0.974
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	156.48	N.A.	21.10
0-30	308.43	N.A.	41.50
0-40	462.11	N.A.	62.20
0-60	674.28	N.A.	90.80
0-80	740.28	N.A.	99.70
0-90	742.67	N.A.	100.00
10-90	700.05	N.A.	94.30
20-40	305.63	N.A.	41.20
20-50	431.85	N.A.	58.10
40-70	260.06	N.A.	35.00
60-80	66.00	N.A.	8.90
70-80	18.10	N.A.	2.40
80-90	2.39	N.A.	0.30
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	742.67	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	42.61
10-20	113.87
20-30	151.95
30-40	153.68
40-50	126.22
50-60	85.95
60-70	47.90
70-80	18.10
80-90	2.39
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

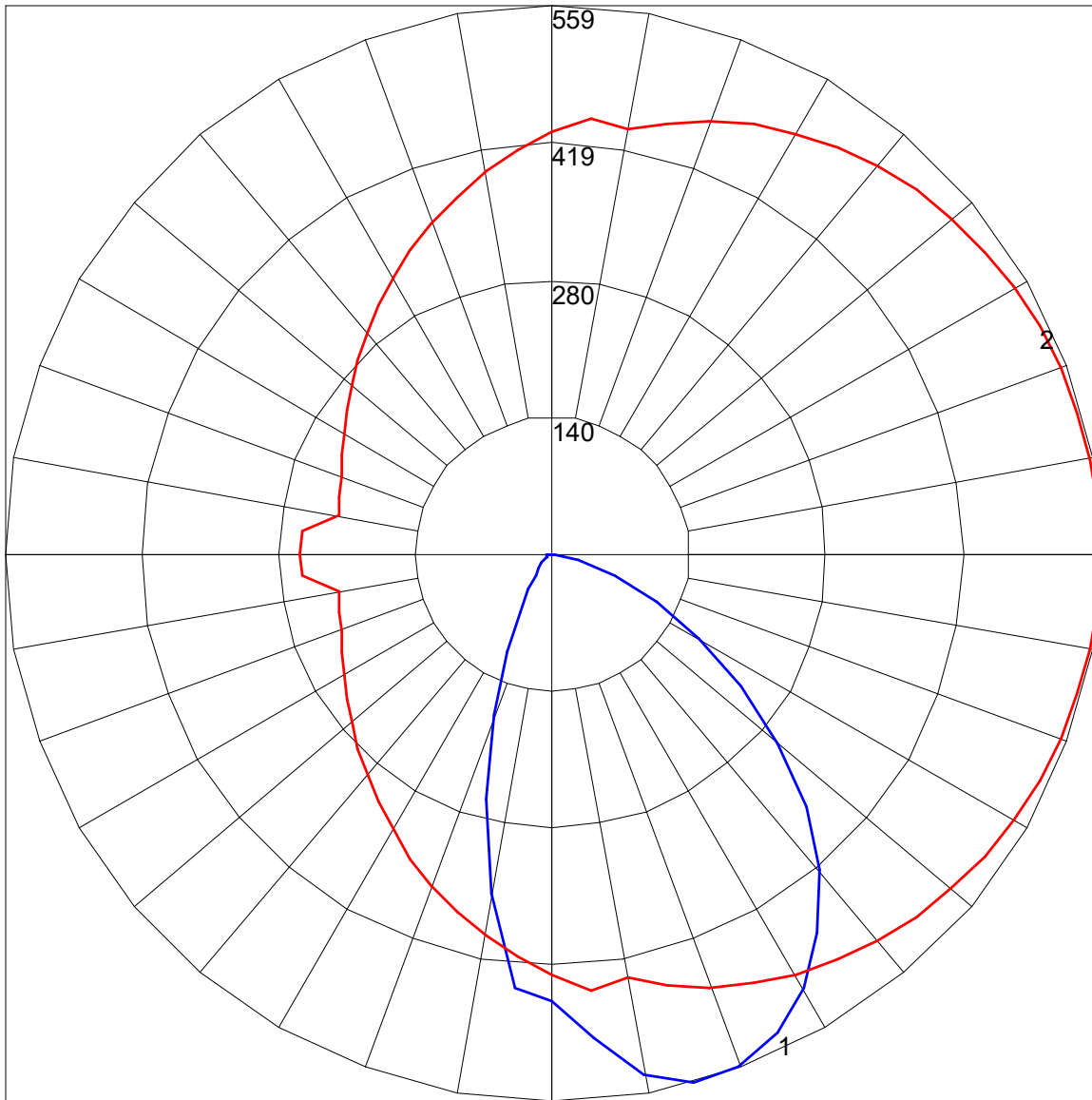
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_BX_LO_35_A1_BL.IES

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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61
5	82	71	64	58	81	70	63	58	68	62	57	66	61	56	65	60	56	54
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37
10	60	48	41	36	59	47	40	36	46	40	36	45	40	35	45	39	35	34

POLAR GRAPH



Maximum Candela = 559.108 Located At Horizontal Angle = 0, Vertical Angle = 15
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)