

IES Report

BoxRail® | 107 | 40° Symmetric | 80 CRI | LO

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-35-S1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	46	48	49	49
Total Lumens, 4' rail length (1219mm)	631	651	664	664
Lumens per foot (305mm)	158	163	166	166
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	85	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_S1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911509R01 (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-S1-AL

[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board, 40° white symmetric lens,

[MORE] low 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	664
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	48
Total Luminaire Watts	13.82
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.70
Spacing Criterion (90-270)	1.08
Spacing Criterion (Diagonal)	0.90
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.01 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	24800	41273	79359
55	18849	28403	55926
65	16108	21700	40240
75	14202	17252	28931
85	1099	6018	17033

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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>
0.0	535.885	535.885	535.885	535.885	535.885	535.885	535.885	535.885	535.885	535.885
1.0	521.333	524.129	525.149	529.644	532.707	534.482	532.805	534.116	535.160	536.280
3.0	514.866	515.887	516.078	525.051	530.277	532.341	530.978	532.075	533.461	534.650
5.0	501.932	500.476	508.010	513.990	521.768	523.763	523.398	525.341	527.458	528.844
7.0	484.091	480.368	488.418	497.437	505.482	508.689	511.119	513.602	516.397	518.897
9.0	462.695	457.545	466.784	479.857	489.410	492.867	496.028	499.502	503.585	507.599
11.0	436.734	429.490	440.185	454.163	463.426	469.968	474.318	479.057	484.381	489.729
13.0	405.861	396.407	402.584	418.725	434.136	443.491	448.891	455.648	462.016	469.359
15.0	384.517	374.895	393.489	410.483	415.535	422.054	429.154	437.146	445.776	454.650
17.0	347.037	347.229	355.813	376.791	383.618	391.227	399.179	408.390	418.893	429.664
19.5	305.080	301.066	313.635	331.795	342.125	350.390	359.942	370.881	382.916	395.775
22.5	257.143	256.847	266.255	283.394	291.879	301.165	311.982	323.942	337.943	353.087
25.5	212.170	214.090	220.336	234.871	245.131	254.585	265.698	278.800	293.579	309.917
29.0	170.503	165.810	175.270	188.541	196.394	205.337	216.131	229.065	244.157	260.809
33.0	128.447	125.802	131.730	143.910	150.957	158.885	168.386	180.078	194.230	209.809
37.5	95.532	95.294	99.470	106.935	112.184	118.436	126.191	135.911	147.871	161.385
42.5	70.737	69.037	72.952	78.155	82.186	86.756	92.446	99.812	108.785	119.428
47.5	54.503	53.360	56.011	59.583	62.228	65.343	69.380	74.629	81.217	88.995
55.0	38.605	37.973	39.283	41.012	42.323	44.196	46.481	49.491	53.337	58.174
65.0	24.308	24.360	24.650	25.259	25.938	26.668	27.689	28.977	30.653	32.747
75.0	13.125	13.004	13.201	13.392	13.589	13.856	14.198	14.610	15.219	15.944
85.0	0.342	0.365	0.365	0.435	0.510	0.632	0.829	1.044	1.340	1.873
90.0	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>
0.0	535.885	535.885	535.885	535.885	535.885	535.885	535.885	535.885	535.885
1.0	536.935	537.521	539.464	539.876	540.949	541.140	541.407	541.070	541.215
3.0	535.456	536.280	537.666	537.956	541.291	540.537	540.751	540.850	540.972
5.0	530.323	532.051	533.484	534.795	536.720	537.498	538.176	539.707	538.495
7.0	521.548	524.100	526.628	528.577	531.999	533.438	534.627	535.212	536.013
9.0	511.682	515.324	518.485	521.843	524.807	527.116	529.424	531.007	533.339
11.0	495.221	500.546	505.627	510.609	514.089	517.586	521.113	523.786	526.095
13.0	476.551	483.581	490.286	497.263	502.297	506.746	511.972	514.182	517.151
15.0	464.203	472.590	481.145	488.441	495.076	500.424	504.020	506.015	507.036
17.0	440.794	451.246	461.431	471.401	479.498	485.060	490.338	493.789	494.978
19.5	409.219	421.811	434.449	447.163	457.423	465.757	471.349	475.339	477.038
22.5	368.938	384.105	399.666	414.903	427.280	437.975	445.608	450.057	451.907
25.5	327.445	344.387	362.082	379.245	394.267	406.882	415.123	421.080	423.168
29.0	279.189	297.615	317.040	335.466	352.043	366.676	375.939	383.136	385.590
33.0	228.044	246.053	265.646	285.314	303.009	315.601	328.170	336.046	339.016
37.5	177.381	193.813	211.758	230.399	247.683	262.827	274.618	282.129	284.171
42.5	131.631	145.684	160.683	177.016	192.525	206.190	216.810	223.155	225.829
47.5	98.061	109.173	121.034	133.968	146.560	158.230	167.028	172.567	174.928
55.0	63.469	70.058	77.691	85.886	94.151	102.051	108.709	112.845	114.544
65.0	35.345	38.408	41.980	46.040	50.222	54.259	57.664	59.972	60.726
75.0	16.895	18.061	19.401	20.979	22.556	24.186	25.549	26.402	26.738
85.0	2.651	3.526	4.251	4.570	4.791	5.005	5.203	5.278	5.301
90.0	0.000	0.000	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	167.08	N.A.	25.20
0-30	307.84	N.A.	46.30
0-40	420.29	N.A.	63.30
0-60	574.70	N.A.	86.50
0-80	652.58	N.A.	98.20
0-90	664.25	N.A.	100.00
10-90	624.04	N.A.	93.90
20-40	253.22	N.A.	38.10
20-50	353.57	N.A.	53.20
40-70	203.86	N.A.	30.70
60-80	77.88	N.A.	11.70
70-80	28.43	N.A.	4.30
80-90	11.67	N.A.	1.80
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	664.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	40.21
10-20	126.86
20-30	140.76
30-40	112.45
40-50	100.36
50-60	54.05
60-70	49.46
70-80	28.43
80-90	11.67
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

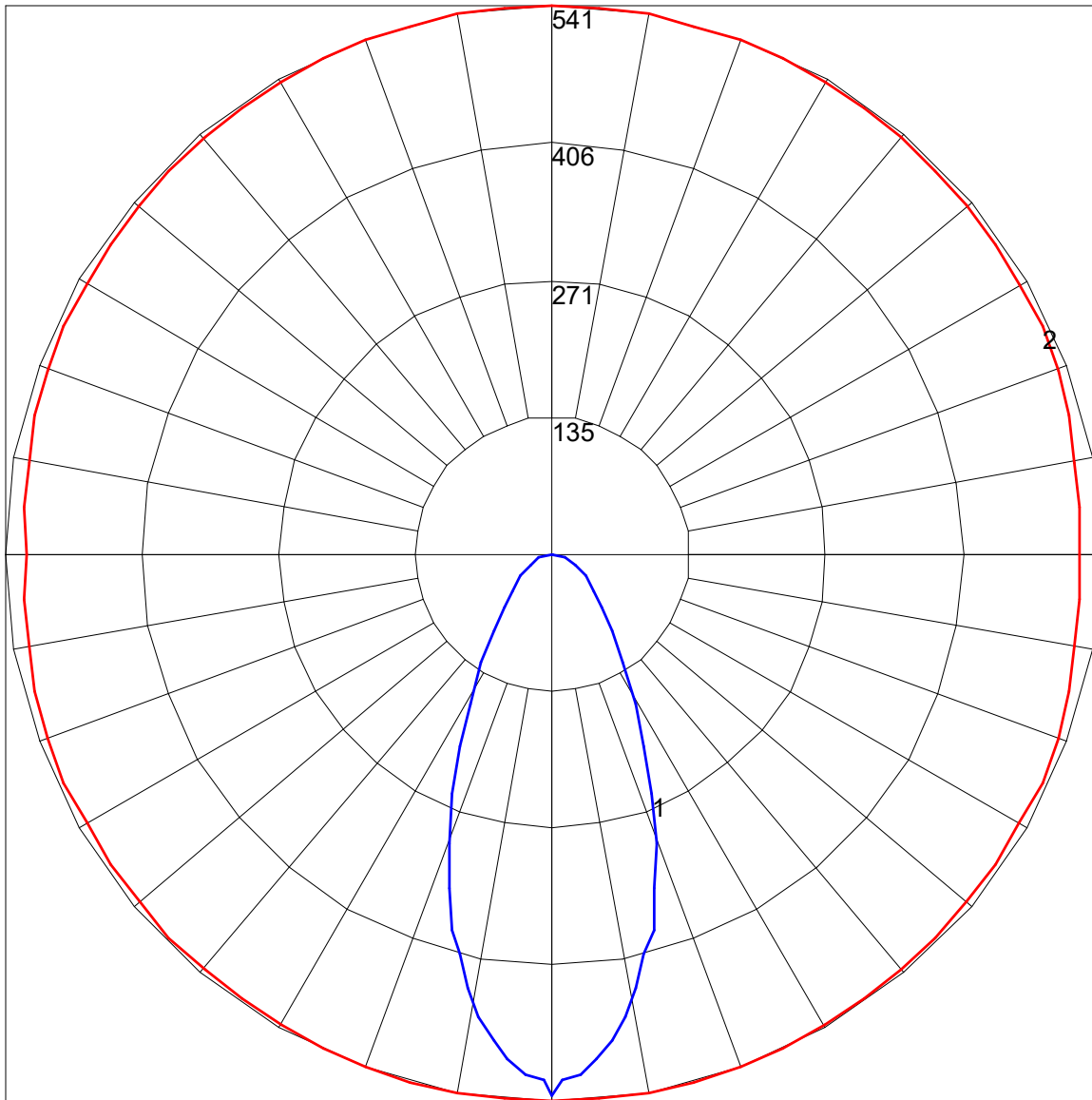
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68
4	89	78	71	65	86	77	70	65	75	69	64	73	67	63	71	66	62	60
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54
6	77	66	58	53	76	65	58	52	63	57	52	62	56	52	60	55	51	49
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42
9	65	53	45	41	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36

POLAR GRAPH



Maximum Candela = 541.407 Located At Horizontal Angle = 80, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)