

IES Report

BoxRail® | 107 | 120° Batwing Lens | 80 CRI | LO

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-35-G1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	98	101	103	105
Total Lumens, 4' rail length (1219mm)	1455	1501	1532	1562
Lumens per foot (305mm)	364	375	383	391
Input Power (W), 4' rail length (1219mm)	15.0	15.0	15.0	15.0
Watts per foot (305mm)	3.8	3.8	3.8	3.8
CRI	85	85	85	85

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_G1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L011800114 (SOURCE REPORT FOR REFERENCE)
 [TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
 [ISSUEDATE] 1/4/2018
 [MANUFAC] Vode Lighting
 [LUMCAT] 107-BX-48-Z-LO-35-G1
 [LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board,
 [MORE] 120° batwing lens up with white polycarbonate reflectors, low output
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1532
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	14.95
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.08 ft
Luminous Width (90-270)	3.85 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	29.58	30.16	30.74	31.90	33.06	34.22	35.38	35.38	34.80	32.48
100	87.58	87.58	88.16	88.74	88.74	88.74	88.16	87.00	83.52	78.88
105	148.48	148.48	148.48	149.06	149.06	149.06	147.90	145.00	140.36	132.24
110	214.60	214.02	214.60	214.60	214.60	213.44	211.70	207.64	200.68	189.08
115	281.30	281.30	281.30	281.30	280.14	278.40	274.92	269.12	259.26	244.18
120	345.68	345.68	345.10	343.94	342.78	339.30	334.66	325.96	313.20	294.64
125	404.84	404.26	403.10	401.36	398.46	393.82	386.86	375.84	360.18	338.72
130	455.30	454.72	452.98	450.08	446.02	439.64	430.36	417.02	398.46	374.68
135	494.74	494.16	491.84	487.78	482.56	474.44	462.84	447.18	426.88	401.36
140	522.00	521.42	518.52	513.88	506.92	497.06	483.72	466.32	444.28	417.60
145	535.92	534.76	531.28	525.48	517.36	505.76	491.26	472.12	449.50	423.40
150	532.44	531.28	526.64	520.26	510.98	498.80	483.14	464.58	443.12	420.50
155	508.66	507.50	502.86	497.06	487.78	476.18	462.26	446.02	428.04	409.48
160	469.80	468.64	465.16	459.94	452.40	443.12	432.10	419.92	406.58	393.24
165	422.82	422.24	419.92	416.44	411.80	405.42	399.04	391.50	383.96	375.84
170	382.22	382.22	380.48	379.32	377.00	374.68	371.78	368.30	364.82	361.34
175	357.28	357.28	356.70	356.70	356.12	355.54	354.96	353.80	353.22	352.64
180	349.74	349.74	349.74	349.74	349.74	349.74	349.74	349.74	349.74	349.74

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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CANDELA TABULATION - (Cont.)

65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	29.58	25.52	22.04	18.56	16.82	15.66	15.66	15.66	15.08
100	71.34	63.22	54.52	48.72	44.66	42.92	42.34	42.34	41.76
105	120.64	107.30	93.96	84.10	77.72	74.82	73.66	72.50	71.92
110	172.84	154.28	135.72	121.22	112.52	107.88	104.98	103.82	103.82
115	223.88	200.10	176.90	158.34	146.74	139.78	136.30	134.56	133.98
120	270.86	242.44	215.18	193.14	178.64	169.94	165.30	162.98	162.40
125	311.46	280.72	250.56	224.46	207.64	197.20	191.40	189.08	188.50
130	345.10	312.04	280.14	253.46	234.90	222.72	215.76	212.28	211.70
135	370.62	336.98	305.08	278.40	259.26	245.92	237.80	233.74	232.58
140	386.86	354.96	325.38	299.28	280.72	267.38	258.68	254.04	252.88
145	394.98	366.56	339.88	316.68	299.28	286.52	277.82	273.18	272.02
150	395.56	371.78	349.16	329.44	314.36	303.34	295.22	291.16	290.00
155	389.76	371.20	353.80	338.72	326.54	317.84	310.88	307.40	306.24
160	379.32	366.56	354.96	344.52	335.82	329.44	324.80	321.90	321.32
165	367.72	360.76	353.80	347.42	342.20	338.72	335.82	334.08	333.50
170	357.86	354.96	351.48	349.16	346.84	345.10	343.94	342.78	342.78
175	351.48	350.90	350.32	349.74	349.16	348.58	348.58	348.58	348.00
180	349.74	349.74	349.74	349.74	349.74	349.74	349.74	349.74	349.74

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	0.00	N.A.	0.00
0-80	0.00	N.A.	0.00
0-90	0.00	N.A.	0.00
10-90	0.00	N.A.	0.00
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	0.00	N.A.	0.00
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	158.89	N.A.	10.40
90-120	376.75	N.A.	24.60
90-130	654.51	N.A.	42.70
90-150	1202.07	N.A.	78.50
90-180	1531.57	N.A.	100.00
110-180	1372.68	N.A.	89.60
0-180	1531.57	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
90-100	33.48
100-110	125.41
110-120	217.86
120-130	277.76
130-140	290.63
140-150	256.93
150-160	188.17
160-170	107.37
170-180	33.96

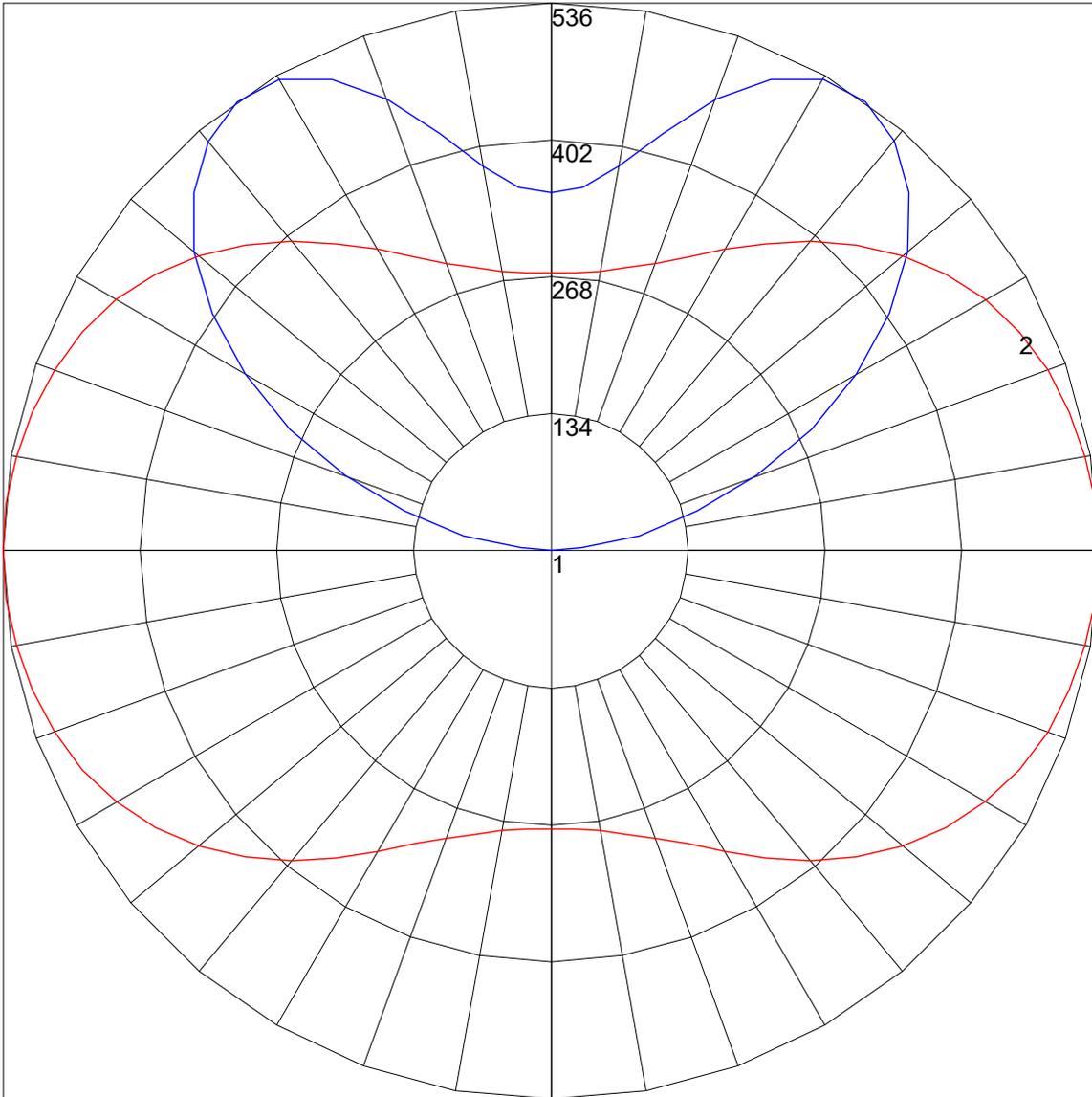
IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

POLAR GRAPH



Maximum Candela = 535.92 Located At Horizontal Angle = 0, Vertical Angle = 145
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (145) (Through Max. Cd.)