

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	122	126	128	131
Total Lumens, 4' rail length (1219mm)	2910	3002	3063	3124
Lumens per foot (305mm)	727	750	766	781
Input Power (W), 4' rail length (1219mm)	24.0	24.0	24.0	24.0
Watts per foot (305mm)	6.0	6.0	6.0	6.0
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_SO_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-SO-35-G1
 [LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board,
 [MORE] 120° batwing lens up with white polycarbonate reflectors, standard output
 [[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3063
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	23.95
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	59.16	60.32	61.48	63.80	66.12	68.44	70.76	70.76	69.60	64.96
100	175.16	175.16	176.32	177.48	177.48	177.48	176.32	174.00	167.04	157.76
105	296.96	296.96	296.96	298.12	298.12	298.12	295.80	290.00	280.72	264.48
110	429.20	428.04	429.20	429.20	429.20	426.88	423.40	415.28	401.36	378.16
115	562.60	562.60	562.60	562.60	560.28	556.80	549.84	538.24	518.52	488.36
120	691.36	691.36	690.20	687.88	685.56	678.60	669.32	651.92	626.40	589.28
125	809.68	808.52	806.20	802.72	796.92	787.64	773.72	751.68	720.36	677.44
130	910.60	909.44	905.96	900.16	892.04	879.28	860.72	834.04	796.92	749.36
135	989.48	988.32	983.68	975.56	965.12	948.88	925.68	894.36	853.76	802.72
140	1044.00	1042.84	1037.04	1027.76	1013.84	994.12	967.44	932.64	888.56	835.20
145	1071.84	1069.52	1062.56	1050.96	1034.72	1011.52	982.52	944.24	899.00	846.80
150	1064.88	1062.56	1053.28	1040.52	1021.96	997.60	966.28	929.16	886.24	841.00
155	1017.32	1015.00	1005.72	994.12	975.56	952.36	924.52	892.04	856.08	818.96
160	939.60	937.28	930.32	919.88	904.80	886.24	864.20	839.84	813.16	786.48
165	845.64	844.48	839.84	832.88	823.60	810.84	798.08	783.00	767.92	751.68
170	764.44	764.44	760.96	758.64	754.00	749.36	743.56	736.60	729.64	722.68
175	714.56	714.56	713.40	713.40	712.24	711.08	709.92	707.60	706.44	705.28
180	699.48	699.48	699.48	699.48	699.48	699.48	699.48	699.48	699.48	699.48

Vert. Horizontal Angles
 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	59.16	51.04	44.08	37.12	33.64	31.32	31.32	31.32	30.16
100	142.68	126.44	109.04	97.44	89.32	85.84	84.68	84.68	83.52
105	241.28	214.60	187.92	168.20	155.44	149.64	147.32	145.00	143.84
110	345.68	308.56	271.44	242.44	225.04	215.76	209.96	207.64	207.64
115	447.76	400.20	353.80	316.68	293.48	279.56	272.60	269.12	267.96
120	541.72	484.88	430.36	386.28	357.28	339.88	330.60	325.96	324.80
125	622.92	561.44	501.12	448.92	415.28	394.40	382.80	378.16	377.00
130	690.20	624.08	560.28	506.92	469.80	445.44	431.52	424.56	423.40
135	741.24	673.96	610.16	556.80	518.52	491.84	475.60	467.48	465.16
140	773.72	709.92	650.76	598.56	561.44	534.76	517.36	508.08	505.76
145	789.96	733.12	679.76	633.36	598.56	573.04	555.64	546.36	544.04
150	791.12	743.56	698.32	658.88	628.72	606.68	590.44	582.32	580.00
155	779.52	742.40	707.60	677.44	653.08	635.68	621.76	614.80	612.48
160	758.64	733.12	709.92	689.04	671.64	658.88	649.60	643.80	642.64
165	735.44	721.52	707.60	694.84	684.40	677.44	671.64	668.16	667.00
170	715.72	709.92	702.96	698.32	693.68	690.20	687.88	685.56	685.56
175	702.96	701.80	700.64	699.48	698.32	697.16	697.16	697.16	696.00
180	699.48	699.48	699.48	699.48	699.48	699.48	699.48	699.48	699.48

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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	317.78	N.A.	10.40
90-120	753.50	N.A.	24.60
90-130	1309.02	N.A.	42.70
90-150	2404.13	N.A.	78.50
90-180	3063.13	N.A.	100.00
110-180	2745.36	N.A.	89.60
0-180	3063.13	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	66.96
100-110	250.82
110-120	435.72
120-130	555.52
130-140	581.25
140-150	513.86
150-160	376.34
160-170	214.75
170-180	67.91

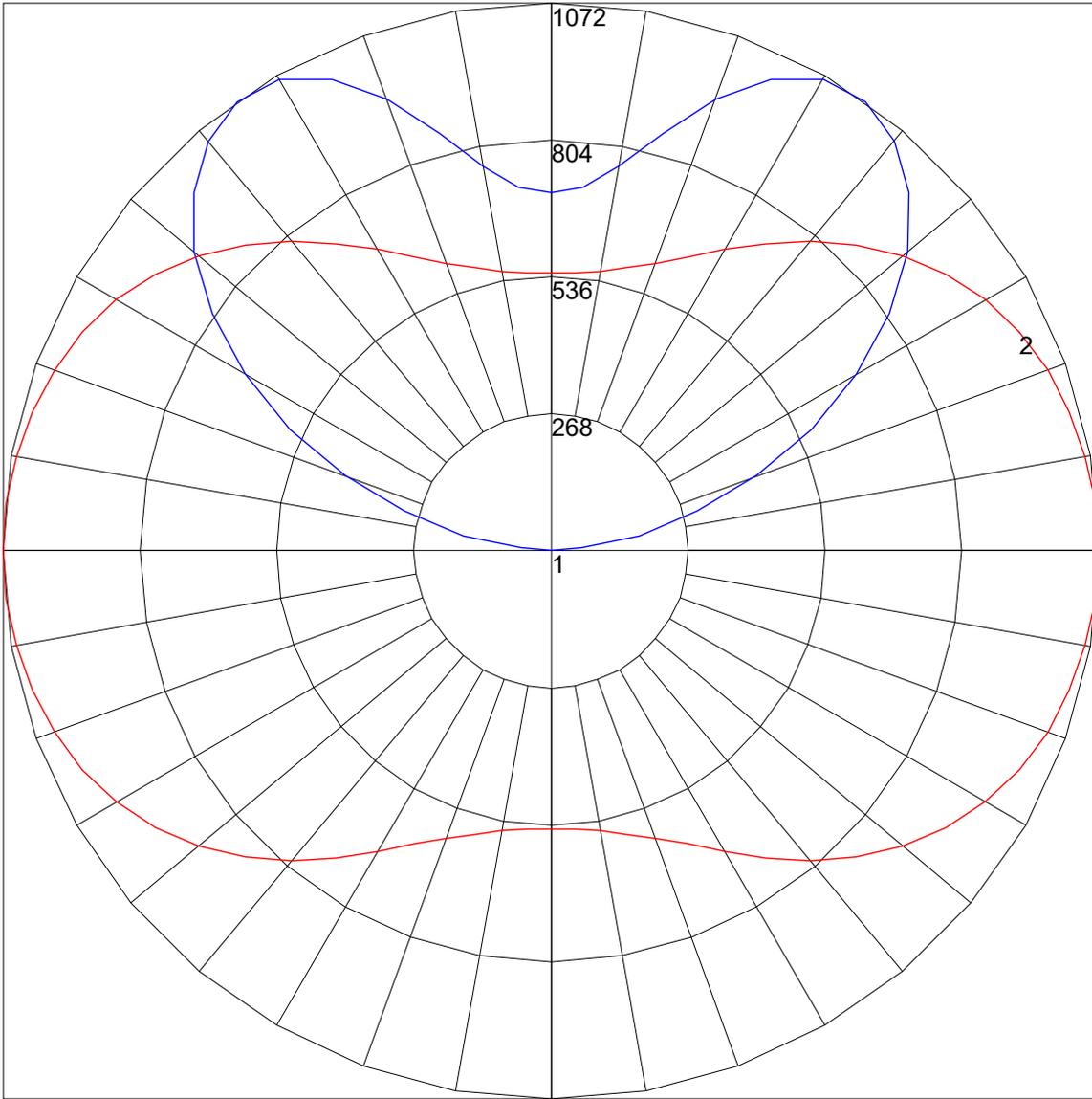
IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	28	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 = 1071.84 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.)