

IES Report

BoxRail® | 107 | 120° FlyWing™ | 90 CRI | LO

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-359-G2-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	95	98	100	101
Total Lumens, 4' rail length (1219mm)	1311	1353	1381	1394
Lumens per foot (305mm)	328	338	345	349
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	94	94	94	94

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_359_G2.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L121911505 (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-359-G2-AL
[LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board, 120° flying 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	1380
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	13.82
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.54
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.52
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.07 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	23481	20788	13728
55	22217	19901	12986
65	16608	16384	12581
75	9479	10936	11072
85	1751	3222	5905

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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	457.320	457.320	457.320	457.320	457.320	457.320	457.320	457.320	457.320	457.320
5	460.445	460.110	460.070	459.670	459.565	459.105	458.770	458.265	457.615	457.115
10	469.165	468.890	468.200	467.550	466.355	464.700	463.235	461.305	459.190	456.860
15	479.640	479.160	478.340	476.710	474.485	471.700	468.345	464.595	460.025	455.625
20	485.930	485.510	484.210	482.240	479.390	475.620	470.905	465.540	459.085	452.230
25	486.475	486.180	484.690	482.345	478.720	474.610	468.975	462.120	454.305	445.190
30	480.145	480.080	478.720	476.165	472.455	467.485	461.600	454.035	444.605	434.000
35	467.360	466.940	465.370	462.645	459.125	454.220	447.975	439.785	430.120	418.050
40	445.900	445.460	444.035	441.605	438.000	433.310	427.270	419.120	408.540	396.360
45	415.015	414.760	413.440	411.595	408.475	404.325	398.225	390.410	380.120	367.420
50	373.060	372.830	372.055	370.585	368.365	365.075	359.985	352.835	342.925	330.855
55	318.530	318.425	318.115	317.860	316.940	314.905	311.070	305.415	296.530	285.315
60	249.920	250.090	250.845	251.660	252.250	252.145	250.465	246.925	240.640	231.690
65	175.445	175.715	176.765	178.275	180.035	181.480	182.065	181.185	178.190	173.075
70	109.390	109.705	110.775	112.410	114.420	116.705	118.445	119.410	119.095	117.335
75	61.320	61.485	62.155	63.310	64.795	66.515	68.150	69.530	70.370	70.750
80	25.900	26.050	26.490	27.245	28.310	29.610	31.015	32.400	33.760	34.955
85	3.815	3.815	3.875	3.940	4.130	4.340	4.695	5.240	6.035	7.020
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>
0	457.320	457.320	457.320	457.320	457.320	457.320	457.320	457.320	457.320
5	456.735	456.255	455.690	455.435	455.205	454.745	454.475	454.350	454.160
10	454.555	452.380	450.305	448.440	446.720	445.190	444.225	443.555	443.135
15	451.035	445.800	441.230	436.995	433.015	429.600	427.355	425.910	425.155
20	444.875	436.535	429.140	421.280	414.595	408.875	404.390	401.600	400.595
25	435.070	424.590	413.335	402.650	392.695	383.915	377.250	373.205	371.385
30	421.930	408.745	394.330	380.520	367.255	355.940	347.055	341.665	339.530
35	404.030	388.545	372.265	355.015	339.340	326.015	315.450	309.020	306.670
40	380.895	363.715	345.605	326.955	309.500	294.160	283.115	276.200	273.770
45	351.580	333.870	315.200	295.650	278.045	263.040	251.745	245.020	242.630
50	315.200	297.745	279.765	261.470	245.645	231.710	221.735	215.510	213.460
55	271.045	255.435	239.945	224.755	211.845	200.800	192.965	187.870	186.175
60	220.520	208.220	196.650	186.005	177.120	169.680	164.465	161.215	159.935
65	166.245	159.055	152.495	146.630	141.895	138.015	135.270	133.450	132.905
70	114.820	112.075	109.705	107.775	106.205	105.240	104.340	103.690	103.440
75	70.915	70.955	70.955	71.105	71.335	71.605	71.735	71.710	71.630
80	36.025	36.990	37.765	38.390	38.935	39.295	39.545	39.710	39.690
85	8.425	9.910	11.150	12.050	12.575	12.805	12.865	12.910	12.865
90	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	171.95	N.A.	12.50
0-30	373.49	N.A.	27.10
0-40	624.96	N.A.	45.30
0-60	1130.23	N.A.	81.90
0-80	1366.75	N.A.	99.00
0-90	1380.31	N.A.	100.00
10-90	1336.69	N.A.	96.80
20-40	453.01	N.A.	32.80
20-50	720.22	N.A.	52.20
40-70	667.30	N.A.	48.30
60-80	236.52	N.A.	17.10
70-80	74.48	N.A.	5.40
80-90	13.57	N.A.	1.00
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	1380.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	43.62
10-20	128.33
20-30	201.54
30-40	251.47
40-50	267.21
50-60	238.06
60-70	162.03
70-80	74.48
80-90	13.57
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

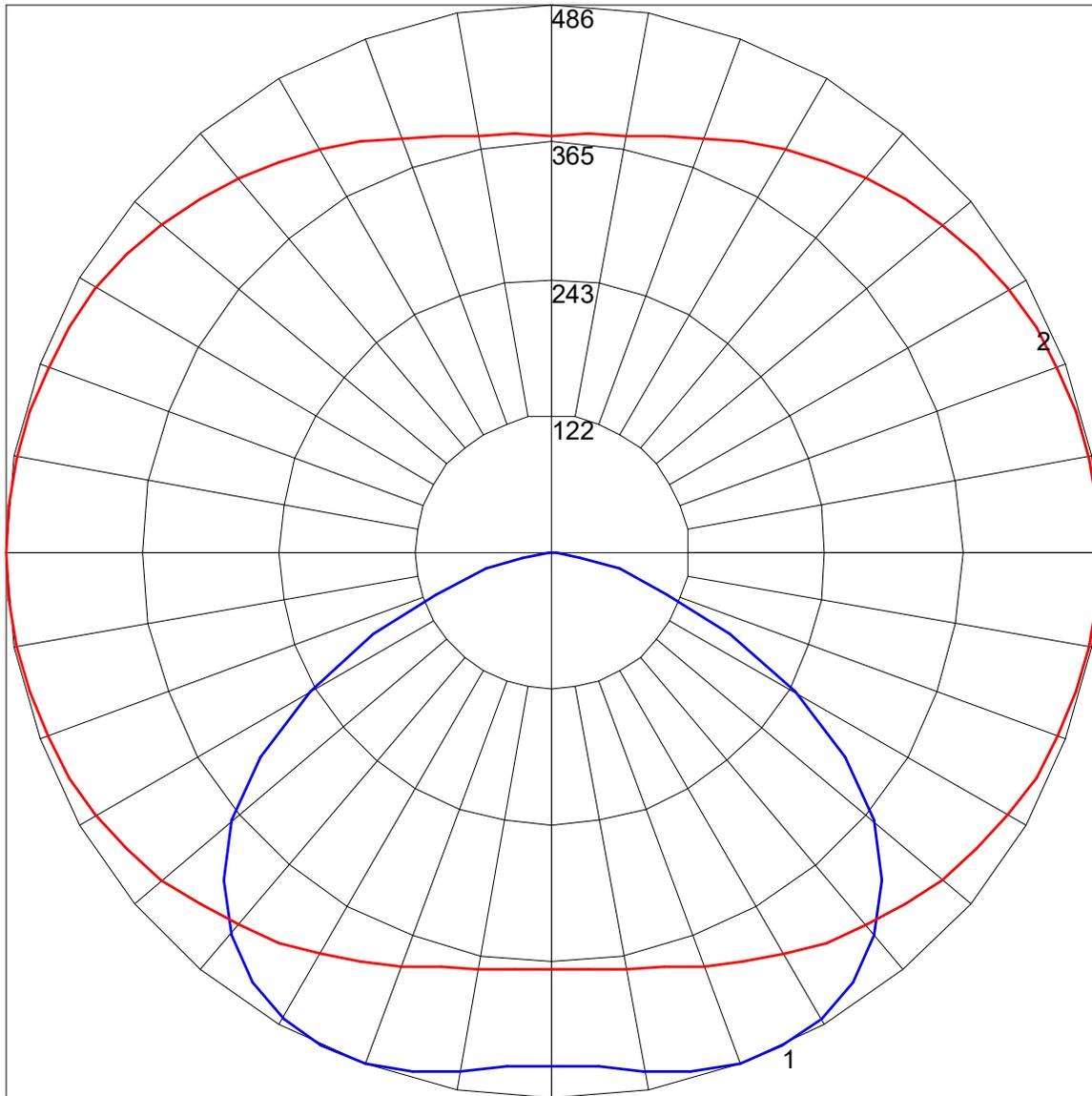
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 486.475 Located At Horizontal Angle = 0, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)