

IES Report

BoxRail® | 107 | 60° Symmetric | 90 CRI | LO

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-359-S2-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	34	35	35	36
Total Lumens, 4' rail length (1219mm)	459	474	484	488
Lumens per foot (305mm)	115	118	121	122
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_S2_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911513 (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-S2-BL

[LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board, 60° black symmetric 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	483
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	35
Total Luminaire Watts	13.82
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.74
Spacing Criterion (90-270)	1.08
Spacing Criterion (Diagonal)	0.88
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.02 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	7370	12217	27601
55	3448	5981	15972
65	1971	3416	9388
75	1269	2153	5783
85	64	739	3101

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_BX_LO_359_S2_BL.IES

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	451.470	451.470	451.470	451.470	451.470	451.470	451.470	451.470	451.470	451.470
1.0	431.440	434.545	434.230	437.350	446.885	452.440	456.170	458.520	460.320	463.545
3.0	433.285	435.780	435.615	439.950	448.335	453.025	455.960	459.085	463.130	466.690
5.0	432.030	433.540	433.875	437.205	445.275	449.800	452.460	456.755	462.040	465.410
7.0	420.000	420.795	421.845	424.630	434.480	438.840	440.895	444.645	449.530	456.505
9.0	405.415	405.895	407.070	410.090	420.275	424.130	427.755	432.970	441.985	447.350
11.0	386.765	386.325	387.770	389.865	399.550	404.390	406.800	412.960	424.990	432.890
13.0	363.545	362.540	363.860	365.955	374.820	380.140	383.850	392.400	405.040	414.805
15.0	340.035	338.900	340.765	342.400	350.345	356.295	361.470	374.800	387.100	397.915
17.0	314.130	312.140	314.485	316.435	323.370	328.505	333.600	345.250	359.040	372.240
19.5	279.555	277.205	279.950	280.790	287.410	292.190	300.570	315.680	330.645	344.390
22.5	236.550	233.680	235.925	235.170	240.510	246.860	254.635	268.260	285.420	300.885
25.5	197.240	193.970	196.880	198.790	201.955	207.970	216.935	230.770	246.840	263.415
29.0	152.895	150.005	152.330	150.445	153.295	158.805	167.650	179.635	195.770	212.370
33.0	110.185	107.565	110.125	112.450	113.455	115.780	122.885	133.490	147.365	161.905
37.5	73.345	71.585	73.600	72.255	73.805	77.390	83.595	92.460	103.230	115.780
42.5	45.980	44.655	45.895	47.170	47.530	48.620	52.620	58.300	65.825	75.000
47.5	28.460	27.705	28.460	29.025	29.320	30.325	33.025	36.905	42.270	48.385
55.0	14.125	13.770	14.145	14.165	14.460	15.130	16.490	18.440	21.310	24.500
65.0	5.950	5.825	5.995	6.035	6.140	6.435	7.000	7.860	8.970	10.310
75.0	2.345	2.325	2.390	2.370	2.430	2.600	2.810	3.060	3.500	3.980
85.0	0.040	0.040	0.040	0.040	0.040	0.085	0.125	0.190	0.315	0.460
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	451.470	451.470	451.470	451.470	451.470	451.470	451.470	451.470	451.470
1.0	466.395	468.095	470.150	472.410	473.710	474.780	475.365	475.680	476.290
3.0	468.660	471.365	472.875	474.065	474.465	475.430	475.955	476.165	476.415
5.0	468.075	469.435	470.630	470.670	471.680	472.725	473.625	474.215	474.195
7.0	460.930	462.710	463.800	464.845	466.355	467.615	468.975	469.435	469.625
9.0	451.750	454.580	456.590	458.140	459.965	462.015	463.380	464.450	464.845
11.0	439.010	442.760	445.150	448.040	451.225	453.825	455.835	456.990	457.510
13.0	421.740	428.740	432.595	436.870	440.810	443.995	446.445	448.205	448.960
15.0	405.605	412.915	418.490	424.150	429.160	433.370	436.765	438.945	439.320
17.0	382.930	390.995	398.750	406.045	412.395	417.465	421.510	424.295	425.240
19.5	355.750	365.220	374.905	384.145	392.295	399.315	404.410	407.805	409.185
22.5	318.010	330.265	342.130	353.635	363.965	372.285	378.675	382.930	384.710
25.5	277.795	292.295	306.375	320.080	332.130	341.960	349.335	354.260	356.085
29.0	229.385	245.480	261.030	277.395	291.270	302.875	311.680	317.275	319.245
33.0	178.000	194.850	211.280	227.625	242.145	254.365	263.650	269.765	272.010
37.5	129.405	143.760	159.055	174.480	187.680	201.075	210.650	216.915	219.240
42.5	86.085	97.990	110.250	122.800	135.040	146.250	154.655	160.210	162.285
47.5	56.140	64.440	73.850	83.865	93.550	102.770	109.830	114.420	116.475
55.0	28.670	33.280	38.600	44.680	50.610	56.225	61.025	64.210	65.425
65.0	11.965	13.875	16.115	18.650	21.310	23.975	26.215	27.725	28.335
75.0	4.610	5.325	6.120	7.105	8.070	9.055	9.870	10.480	10.690
85.0	0.755	1.005	1.195	1.385	1.510	1.675	1.825	1.885	1.930
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_BX_LO_359_S2_BL.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	145.10	N.A.	30.00
0-30	264.16	N.A.	54.60
0-40	352.45	N.A.	72.90
0-60	449.13	N.A.	92.90
0-80	480.06	N.A.	99.30
0-90	483.44	N.A.	100.00
10-90	448.44	N.A.	92.80
20-40	207.35	N.A.	42.90
20-50	274.72	N.A.	56.80
40-70	118.05	N.A.	24.40
60-80	30.92	N.A.	6.40
70-80	9.55	N.A.	2.00
80-90	3.39	N.A.	0.70
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	483.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	35.00
10-20	110.10
20-30	119.05
30-40	88.29
40-50	67.37
50-60	29.31
60-70	21.37
70-80	9.55
80-90	3.39
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

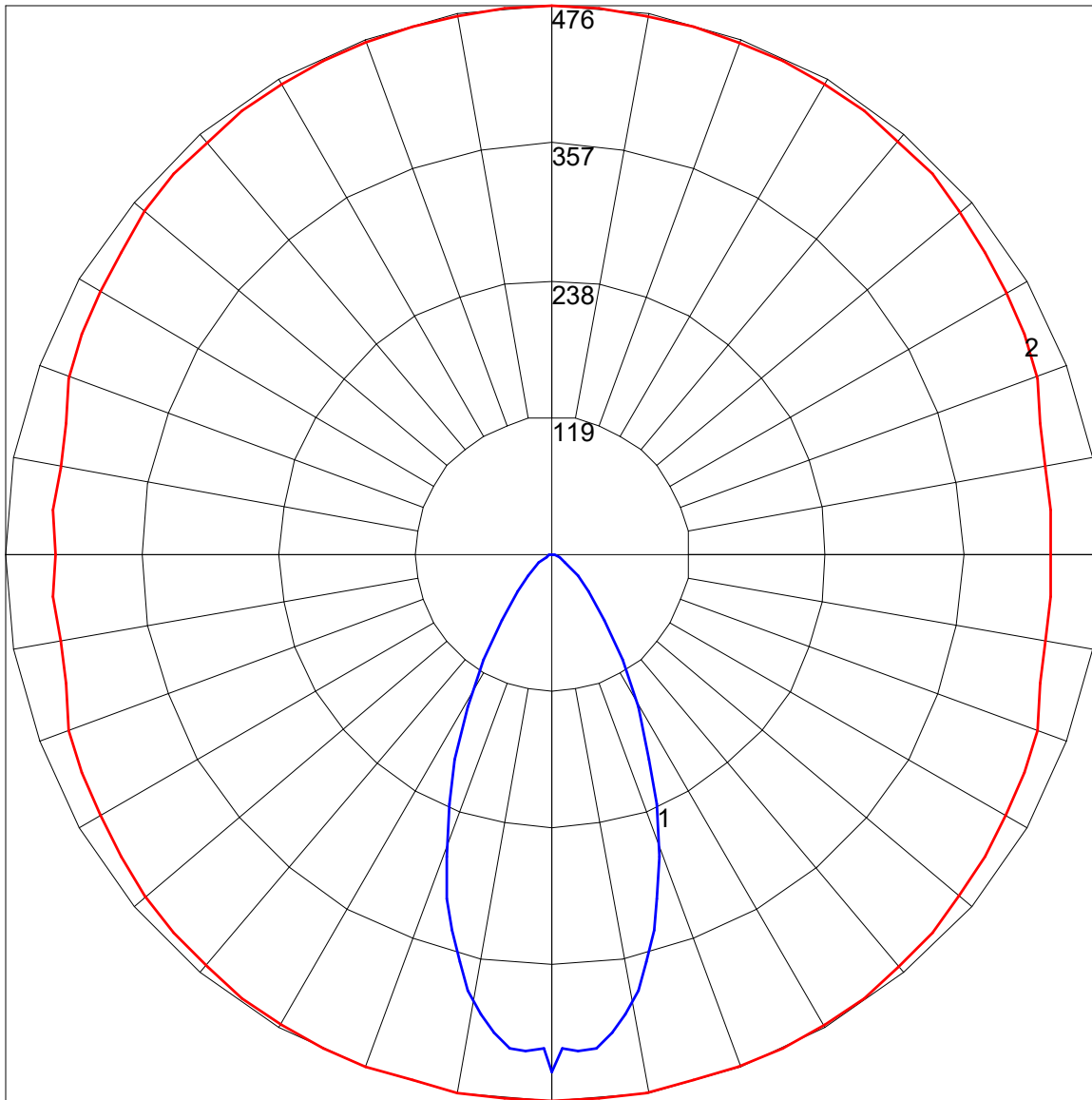
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_BX_LO_359_S2_BL.IES

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	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81
3	98	90	84	79	96	89	83	79	86	81	77	84	79	76	81	78	75	73
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66
5	86	76	69	64	85	75	69	64	74	68	63	72	67	63	70	66	62	60
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51
8	72	61	54	50	71	61	54	50	60	54	49	58	53	49	57	53	49	47
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41

POLAR GRAPH



Maximum Candela = 476.415 Located At Horizontal Angle = 90, Vertical Angle = 3
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (3) (Through Max. Cd.)