

IES Report

BoxRail[®] | 207 | Diffuse, down | 90 CRI | LO

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-359-D1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	65	67	68	69
Total Lumens, 4' rail length (1219mm)	924	954	973	983
Lumens per foot (305mm)	231	238	243	246
Input Power (W), 4' rail length (1219mm)	14.4	14.4	14.4	14.4
Watts per foot (305mm)	3.6	3.6	3.6	3.6
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_207_BX_LO_359_D1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 207-BX-48-Z-LO-359-D1

[LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board,

[MORE] diffuse lens down, 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	973
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	68
Total Luminaire Watts	14.38
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.08 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.09 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5149	6059	10759
55	3952	4833	9874
65	2577	3397	9373
75	1212	1687	8018
85	206	395	5527

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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	355.835	355.835	355.835	355.835	355.835	355.835	355.835	355.835	355.835	355.835
5	354.075	353.925	353.780	353.675	353.575	353.490	353.425	353.375	353.345	353.335
10	349.045	348.745	348.560	348.440	348.405	348.450	348.575	348.290	348.120	348.060
15	340.745	340.360	340.255	340.300	340.370	339.970	339.795	339.845	340.120	340.130
20	329.135	328.635	328.690	328.775	328.365	328.340	328.505	328.345	328.585	328.555
25	314.385	314.000	314.205	313.845	313.845	313.745	313.715	314.275	313.675	313.440
30	297.030	296.635	296.700	296.445	296.410	296.395	296.510	296.285	296.225	296.070
35	276.870	276.535	276.400	276.555	276.400	276.510	276.725	276.200	276.260	276.215
40	254.700	254.440	254.130	254.035	254.160	254.295	254.080	254.225	254.545	254.590
45	230.225	230.190	230.025	229.960	229.865	230.040	229.975	230.450	230.315	230.940
50	204.030	203.750	203.660	203.715	203.880	204.090	204.210	204.705	204.640	204.925
55	175.820	175.570	175.865	175.990	175.180	174.050	174.725	175.570	176.785	178.070
60	145.185	144.860	144.085	141.895	141.230	141.590	142.795	144.705	146.330	148.515
65	110.605	110.475	106.910	105.780	106.640	107.400	109.625	111.340	114.060	117.065
70	76.660	73.895	73.070	74.010	75.825	76.460	77.145	78.300	80.780	83.765
75	48.535	45.675	48.250	48.590	48.270	48.115	47.970	48.230	50.335	52.330
80	25.985	26.430	27.010	27.010	26.945	26.935	26.970	27.160	28.490	28.085
85	7.420	9.780	9.235	9.315	9.430	9.550	9.345	9.850	10.225	10.535
90	3.445	3.480	3.435	3.395	3.290	3.205	3.080	2.915	2.745	2.535

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	355.835	355.835	355.835	355.835	355.835	355.835	355.835	355.835	355.835
5	353.340	353.365	353.410	353.470	353.550	353.650	353.745	353.885	354.030
10	348.095	348.235	348.460	348.305	348.230	348.240	348.330	348.480	348.750
15	339.960	339.655	339.565	339.695	340.075	339.905	339.925	340.090	340.535
20	328.305	328.050	328.095	327.690	327.635	327.955	327.690	327.675	328.170
25	313.745	313.440	312.980	313.045	312.775	312.910	313.075	312.770	313.210
30	295.985	296.010	295.995	295.650	295.900	295.660	296.025	295.660	296.275
35	276.180	276.535	276.345	276.295	276.195	276.185	276.290	276.145	276.450
40	254.625	254.720	254.665	254.455	254.375	254.800	254.690	254.540	254.530
45	230.640	231.065	231.295	231.040	231.170	231.635	231.620	231.580	231.480
50	205.225	205.955	206.195	206.155	206.000	206.145	206.240	206.190	206.000
55	177.550	177.580	179.585	179.895	178.500	177.055	175.710	174.570	173.935
60	149.705	151.130	151.765	152.020	151.695	151.735	152.100	152.285	152.560
65	119.455	121.570	122.465	122.900	123.395	123.610	123.515	123.300	123.555
70	87.210	90.665	92.825	93.795	94.375	94.710	94.970	94.800	95.015
75	55.280	58.895	62.095	63.910	65.490	66.510	66.085	65.980	66.935
80	28.825	30.885	33.845	35.260	39.840	40.615	40.625	40.305	39.985
85	10.680	10.925	12.040	12.420	12.960	14.085	15.925	17.565	18.020
90	2.345	2.095	1.930	1.760	1.570	1.405	1.320	1.215	1.215

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	129.51	N.A.	13.30
0-30	273.97	N.A.	28.20
0-40	446.85	N.A.	45.90
0-60	782.61	N.A.	80.40
0-80	957.38	N.A.	98.40
0-90	972.89	N.A.	100.00
10-90	939.29	N.A.	96.50
20-40	317.34	N.A.	32.60
20-50	495.22	N.A.	50.90
40-70	450.60	N.A.	46.30
60-80	174.77	N.A.	18.00
70-80	59.93	N.A.	6.20
80-90	15.51	N.A.	1.60
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	972.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	33.59
10-20	95.91
20-30	144.47
30-40	172.87
40-50	177.88
50-60	157.88
60-70	114.84
70-80	59.93
80-90	15.51
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

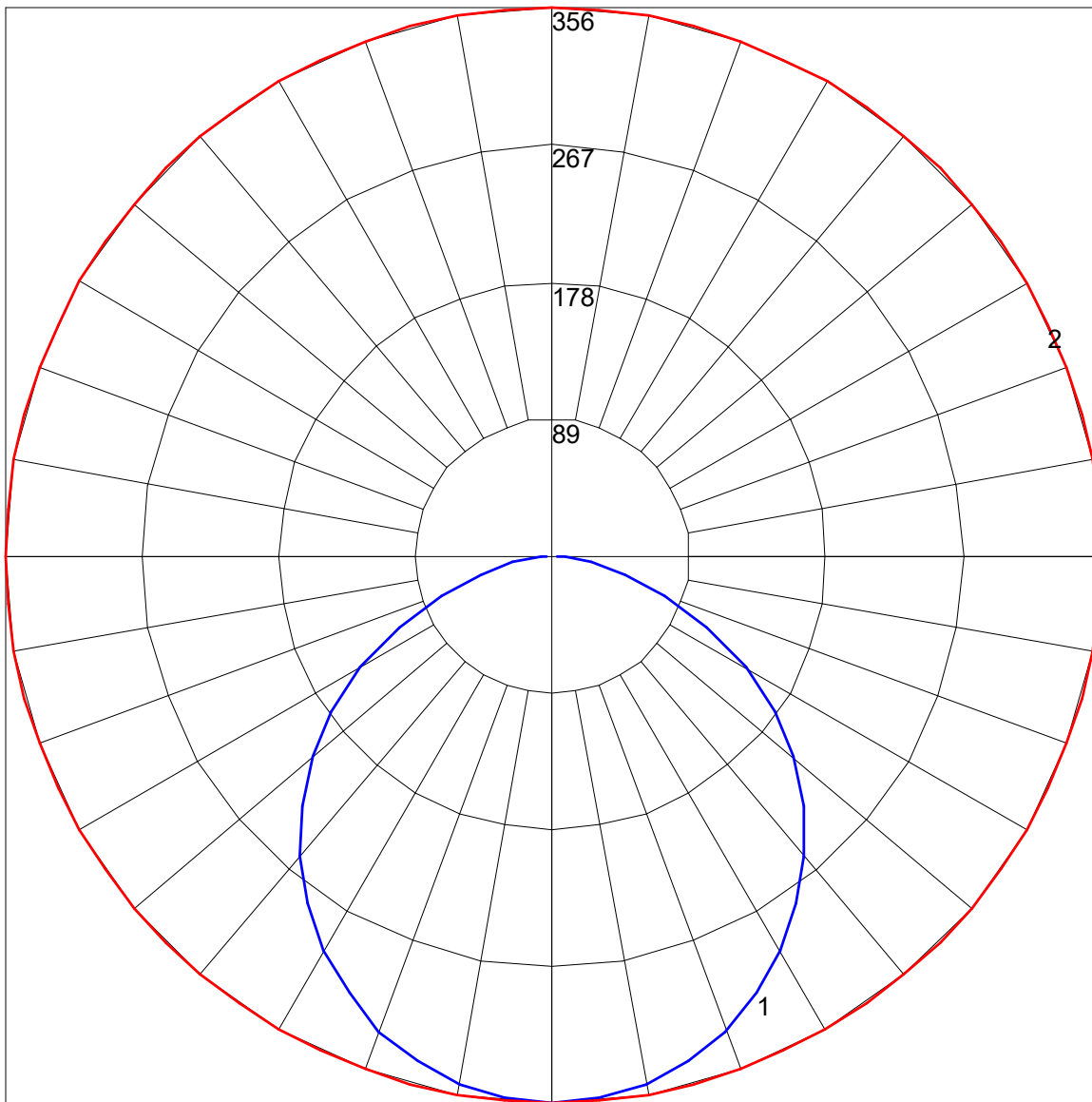
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	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	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 355.835 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)