

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-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	50	52	53	54
Total Lumens, 4' rail length (1219mm)	719	742	757	764
Lumens per foot (305mm)	180	185	189	191
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_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010913 (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-BL

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

[MORE] diffuse lens down, 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	757
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	53
Total Luminaire Watts	14.38
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.26
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	3951	4742	8486
55	3000	3731	8096
65	1957	2537	7414
75	923	1288	6280
85	124	230	4216

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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	280.055	280.055	280.055	280.055	280.055	280.055	280.055	280.055	280.055	280.055
5	278.550	278.430	278.315	278.245	278.175	278.115	278.075	278.050	278.040	278.050
10	274.565	274.360	274.255	274.190	274.185	274.245	274.355	274.145	274.025	273.985
15	267.695	267.420	267.395	267.490	267.610	267.340	267.270	267.400	267.730	267.835
20	258.470	258.165	258.305	258.460	258.185	258.180	258.290	258.125	258.285	258.355
25	247.030	246.640	246.740	246.570	246.720	246.745	246.770	247.235	246.795	246.690
30	233.075	232.830	232.940	232.815	232.865	232.930	233.120	233.015	233.065	233.090
35	216.475	216.265	216.215	216.430	216.470	216.765	217.105	216.905	217.310	217.490
40	197.405	197.295	197.280	197.450	197.855	198.445	198.520	198.955	199.575	199.975
45	176.660	176.780	176.885	177.205	177.465	177.730	178.345	179.295	179.590	180.725
50	155.995	155.805	155.675	155.870	156.275	156.600	157.390	158.035	158.580	159.775
55	133.490	133.275	133.440	133.660	133.370	132.625	133.030	133.975	135.425	137.485
60	109.770	109.605	109.010	107.240	106.660	106.660	107.520	108.475	110.335	112.555
65	83.990	83.780	80.715	79.910	80.295	81.345	82.620	83.745	85.545	87.435
70	58.885	56.400	55.390	56.875	57.975	58.820	59.415	59.685	61.075	63.300
75	36.965	34.105	35.885	36.325	36.225	36.320	36.525	36.915	38.385	39.950
80	16.850	17.000	17.375	17.765	17.925	18.180	18.405	18.875	19.430	20.145
85	4.445	5.270	4.720	4.645	4.630	4.860	4.570	5.185	5.705	6.135
90	2.565	2.620	2.620	2.660	2.640	2.600	2.555	2.430	2.305	2.115

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	280.055	280.055	280.055	280.055	280.055	280.055	280.055	280.055	280.055
5	278.070	278.110	278.170	278.240	278.325	278.425	278.530	278.660	278.800
10	274.020	274.135	274.315	274.235	274.205	274.235	274.325	274.465	274.690
15	267.735	267.470	267.385	267.480	267.780	267.630	267.615	267.710	268.030
20	258.310	258.290	258.480	258.230	258.240	258.540	258.370	258.390	258.805
25	247.065	246.935	246.730	246.995	246.810	246.865	247.005	246.915	247.405
30	233.105	233.140	233.150	233.155	233.645	233.410	233.665	233.430	233.955
35	217.545	217.880	217.605	217.680	217.835	217.895	217.960	217.910	218.235
40	200.290	200.335	200.435	200.535	200.510	200.735	200.590	200.830	201.555
45	180.755	181.080	181.860	181.520	181.295	182.160	182.310	182.420	182.570
50	160.720	161.580	161.940	162.105	162.285	162.950	163.195	163.205	163.080
55	138.455	139.685	140.775	141.630	141.940	142.095	142.135	142.250	142.625
60	114.630	116.515	117.300	118.785	119.655	120.020	120.250	120.220	120.540
65	89.805	91.955	93.715	95.185	96.170	97.065	97.745	97.695	97.740
70	65.415	67.625	69.880	71.415	72.725	74.050	75.310	75.000	75.230
75	42.200	44.695	47.245	47.875	49.215	50.895	52.185	52.495	52.430
80	21.130	23.005	24.650	25.500	27.340	28.735	31.575	34.795	33.195
85	6.430	6.685	7.440	8.245	8.945	10.130	11.990	13.355	13.745
90	1.930	1.720	1.510	1.340	1.215	1.110	1.005	1.175	1.675

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	101.92	N.A.	13.50
0-30	215.65	N.A.	28.50
0-40	351.49	N.A.	46.40
0-60	612.81	N.A.	81.00
0-80	746.18	N.A.	98.60
0-90	756.75	N.A.	100.00
10-90	730.31	N.A.	96.50
20-40	249.57	N.A.	33.00
20-50	388.36	N.A.	51.30
40-70	349.30	N.A.	46.20
60-80	133.37	N.A.	17.60
70-80	45.40	N.A.	6.00
80-90	10.56	N.A.	1.40
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	756.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	26.44
10-20	75.48
20-30	113.73
30-40	135.84
40-50	138.79
50-60	122.53
60-70	87.98
70-80	45.40
80-90	10.56
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

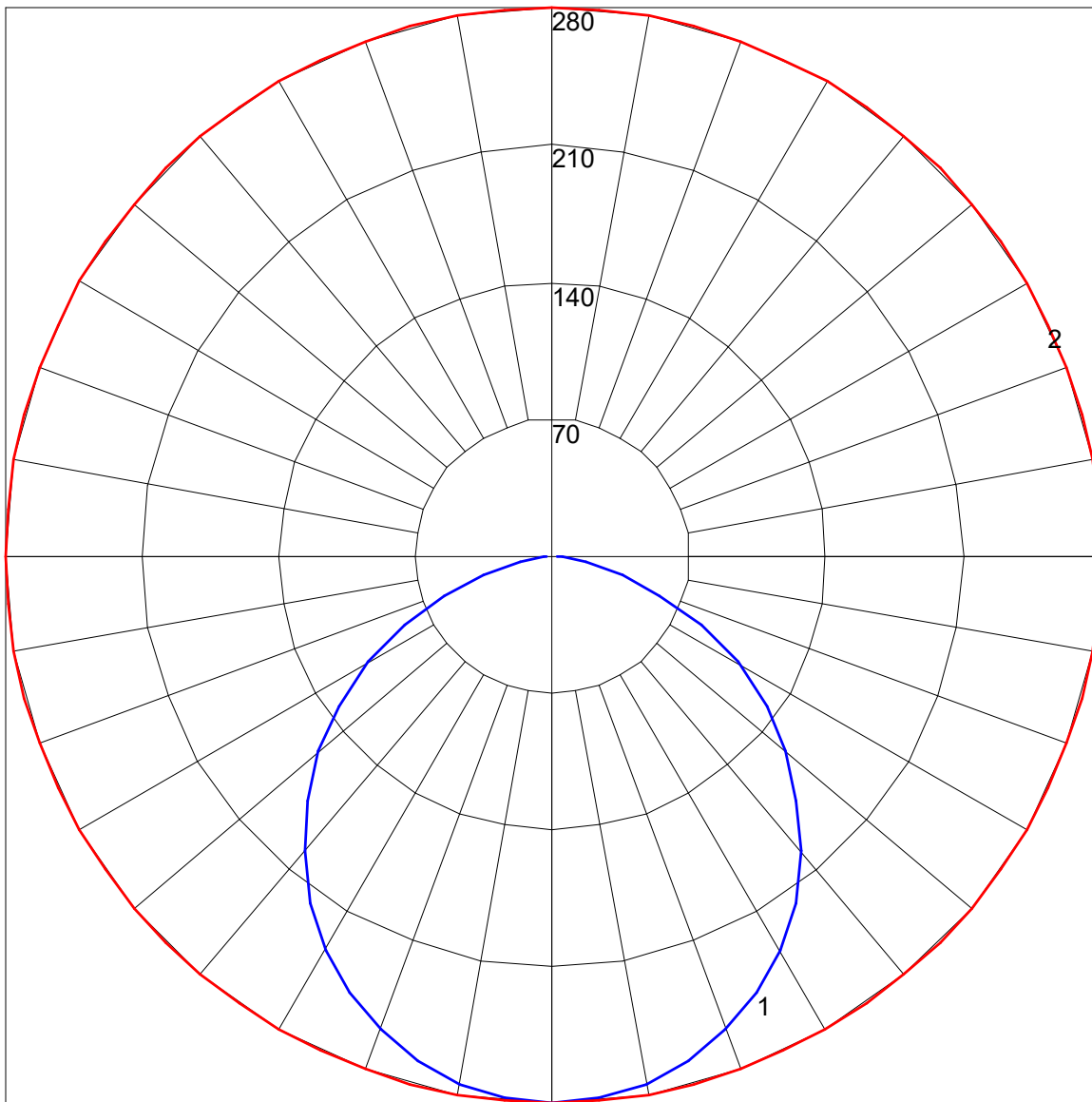
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	97	106	102	98	95	98	95	92	94	92	89	90	88	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	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	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 280.055 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.)