

IES Report

BoxRail® | 207 | 120° Flying, down | 90 CRI | LO

207-BX-XX-4-48-XX-XX-XX-X-X-Z-LO-359-G2-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	93	96	98	99
Total Lumens, 4' rail length (1219mm)	1327	1369	1397	1411
Lumens per foot (305mm)	332	342	349	353
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_G2_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010914 (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-G2-BL

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

[MORE] 120° flywing 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	1397
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	14.38
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.66
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.56
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	9664	10004	11963
55	7043	7936	11399
65	4201	5019	10349
75	1288	2084	7897
85	103	195	2789

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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	440.160	440.160	440.160	440.160	440.160	440.160	440.160	440.160	440.160	440.160
5	446.195	445.855	445.510	444.995	444.520	444.015	443.490	442.940	442.375	441.800
10	463.085	462.365	461.235	459.940	458.405	456.650	454.675	451.565	448.385	445.120
15	486.095	485.005	483.110	480.830	477.735	472.850	467.605	462.045	456.215	449.350
20	507.220	505.810	503.435	500.070	494.350	488.080	480.955	472.075	462.960	453.510
25	519.875	518.115	515.850	510.865	505.000	497.375	488.395	479.170	466.270	452.855
30	518.785	517.330	514.990	510.125	504.120	496.700	488.090	476.070	462.265	447.050
35	503.785	502.170	499.535	496.010	490.325	484.000	476.505	463.105	449.915	433.835
40	473.940	472.950	470.600	467.330	463.555	459.215	450.410	439.980	428.050	411.605
45	432.115	431.385	429.645	427.310	424.405	421.155	413.950	407.060	393.960	381.305
50	376.915	375.880	374.835	374.230	374.185	372.235	367.930	362.050	352.060	339.040
55	313.335	312.985	313.275	313.200	310.940	307.960	306.610	303.040	298.800	292.425
60	247.995	247.420	246.255	242.030	240.095	238.830	239.100	238.195	236.575	232.575
65	180.305	179.385	171.355	169.895	171.570	173.460	175.285	174.850	173.940	172.960
70	108.175	104.000	101.760	104.310	108.505	111.280	112.940	114.965	116.985	117.515
75	51.550	47.495	51.805	53.465	54.805	56.630	57.820	58.680	62.320	64.660
80	12.280	15.175	14.675	15.640	16.395	17.775	19.140	21.370	23.145	26.780
85	3.690	4.380	4.130	4.040	3.975	4.080	3.820	4.010	4.430	5.205
90	3.480	3.540	3.540	3.520	3.520	3.480	3.435	3.310	3.125	2.915

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	440.160	440.160	440.160	440.160	440.160	440.160	440.160	440.160	440.160
5	441.220	440.635	440.050	439.475	438.910	438.355	437.795	437.295	436.810
10	441.805	438.455	435.160	433.490	431.930	430.480	429.145	427.905	426.875
15	442.710	436.880	431.175	425.635	420.190	417.540	415.240	413.165	411.575
20	443.245	432.420	422.010	413.975	406.430	399.300	396.055	393.305	391.415
25	439.480	425.320	411.360	398.090	388.035	379.155	372.605	369.210	367.065
30	430.435	413.330	396.455	380.630	366.095	355.935	346.935	343.245	341.080
35	415.205	396.745	376.965	358.810	342.730	330.155	320.665	315.635	312.830
40	393.590	372.815	352.540	332.780	316.225	302.510	293.240	287.470	284.585
45	361.750	343.020	322.950	303.705	287.125	273.905	265.310	259.930	257.380
50	324.070	306.175	287.895	270.585	255.265	244.235	236.545	231.555	229.050
55	278.140	263.485	248.820	233.495	221.430	212.065	205.360	201.690	200.800
60	226.175	216.915	204.315	192.350	183.170	176.390	171.910	169.130	168.070
65	170.695	164.610	157.240	151.060	145.920	141.680	139.130	137.130	136.425
70	117.090	115.730	113.200	110.145	107.580	104.585	102.860	102.025	101.385
75	67.055	69.805	70.015	68.460	67.710	67.355	65.515	64.855	65.930
80	27.155	29.515	31.340	34.270	37.490	37.505	36.810	36.175	36.255
85	5.880	6.050	6.395	7.365	7.875	8.395	8.645	8.865	9.095
90	2.685	2.430	2.180	1.930	1.675	1.425	1.215	1.155	1.215

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	169.51	N.A.	12.10
0-30	375.84	N.A.	26.90
0-40	637.99	N.A.	45.70
0-60	1156.52	N.A.	82.80
0-80	1385.84	N.A.	99.20
0-90	1396.72	N.A.	100.00
10-90	1354.46	N.A.	97.00
20-40	468.49	N.A.	33.50
20-50	745.70	N.A.	53.40
40-70	679.79	N.A.	48.70
60-80	229.32	N.A.	16.40
70-80	68.05	N.A.	4.90
80-90	10.89	N.A.	0.80
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	1396.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	42.27
10-20	127.24
20-30	206.34
30-40	262.15
40-50	277.21
50-60	241.32
60-70	161.26
70-80	68.05
80-90	10.89
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

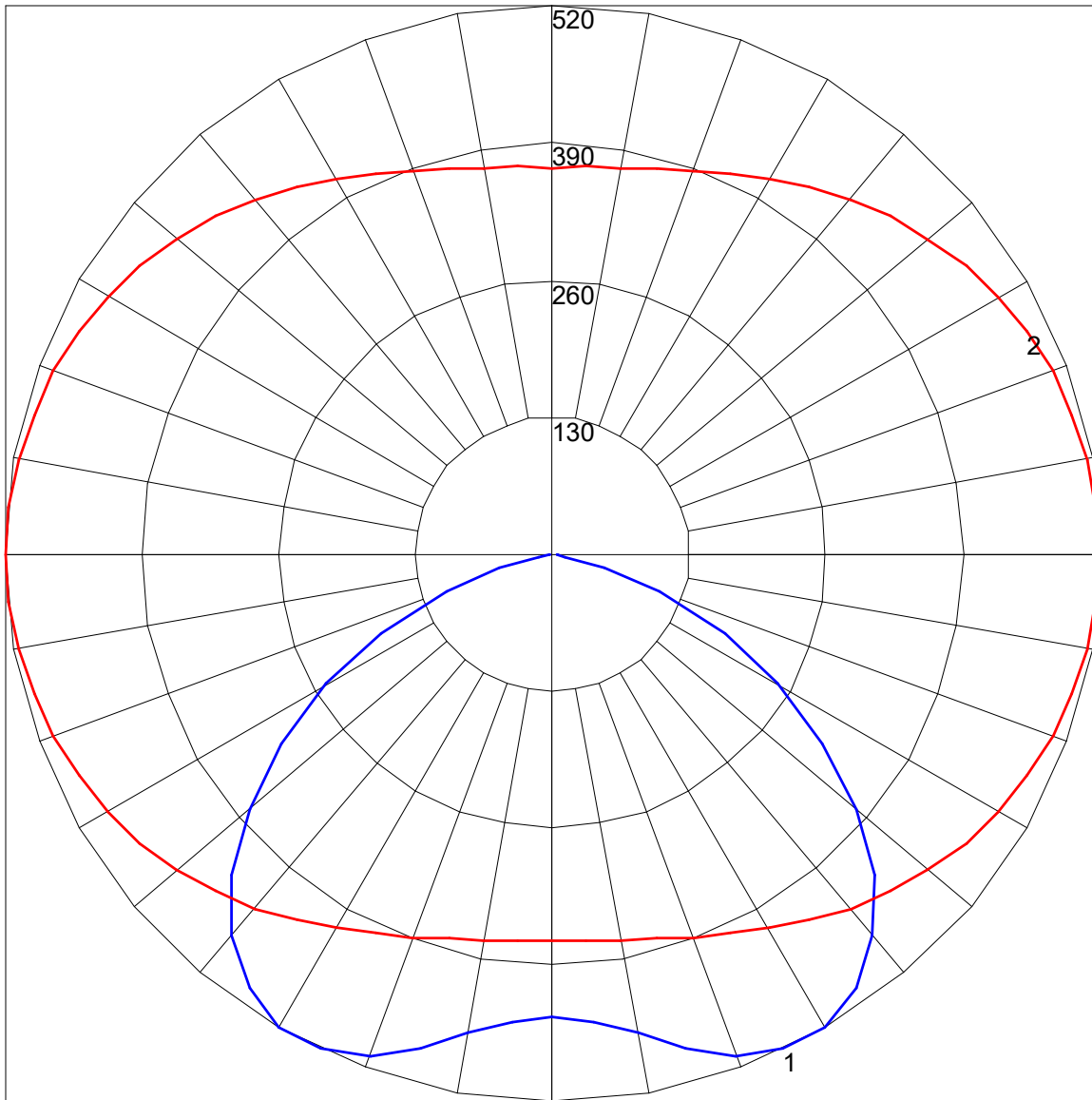
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	101	97	107	103	99	96	98	96	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	76	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	46	38	33	45	38	33	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 = 519.875 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.)