

IES Report

BoxRail® | 207 | Diffuse, down | 80 CRI | HO

207-BX-XX-4-48-XX-XX-XX-X-X-Z-HO-35-D1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	62	64	65	65
Total Lumens, 4' rail length (1219mm)	3169	3269	3336	3336
Lumens per foot (305mm)	792	817	834	834
Input Power (W), 4' rail length (1219mm)	51.6	51.6	51.6	51.6
Watts per foot (305mm)	12.9	12.9	12.9	12.9
CRI	82	82	82	82

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_HO_35_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-HO-35-D1-BL

[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board,

[MORE] diffuse lens down, high 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	3330
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	65
Total Luminaire Watts	51.57
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	17384	20863	37338
55	13202	16418	35623
65	8611	11165	32623
75	4062	5666	27633
85	544	1013	18549

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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	1232.242	1232.242	1232.242	1232.242	1232.242	1232.242	1232.242	1232.242	1232.242	1232.242
5	1225.620	1225.092	1224.586	1224.278	1223.970	1223.706	1223.530	1223.420	1223.376	1223.420
10	1208.086	1207.184	1206.722	1206.436	1206.414	1206.678	1207.162	1206.238	1205.710	1205.534
15	1177.858	1176.648	1176.538	1176.956	1177.484	1176.296	1175.988	1176.560	1178.012	1178.474
20	1137.268	1135.926	1136.542	1137.224	1136.014	1135.992	1136.476	1135.750	1136.454	1136.762
25	1086.932	1085.216	1085.656	1084.908	1085.568	1085.678	1085.788	1087.834	1085.898	1085.436
30	1025.530	1024.452	1024.936	1024.386	1024.606	1024.892	1025.728	1025.266	1025.486	1025.596
35	952.490	951.566	951.346	952.292	952.468	953.766	955.262	954.382	956.164	956.956
40	868.582	868.098	868.032	868.780	870.562	873.158	873.488	875.402	878.130	879.890
45	777.304	777.832	778.294	779.702	780.846	782.012	784.718	788.898	790.196	795.190
50	686.378	685.542	684.970	685.828	687.610	689.040	692.516	695.354	697.752	703.010
55	587.356	586.410	587.136	588.104	586.828	583.550	585.332	589.490	595.870	604.934
60	482.988	482.262	479.644	471.856	469.304	469.304	473.088	477.290	485.474	495.242
65	369.556	368.632	355.146	351.604	353.298	357.918	363.528	368.478	376.398	384.714
70	259.094	248.160	243.716	250.250	255.090	258.808	261.426	262.614	268.730	278.520
75	162.646	150.062	157.894	159.830	159.390	159.808	160.710	162.426	168.894	175.780
80	74.140	74.800	76.450	78.166	78.870	79.992	80.982	83.050	85.492	88.638
85	19.558	23.188	20.768	20.438	20.372	21.384	20.108	22.814	25.102	26.994
90	11.286	11.528	11.528	11.704	11.616	11.440	11.242	10.692	10.142	9.306

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	1232.242	1232.242	1232.242	1232.242	1232.242	1232.242	1232.242	1232.242	1232.242
5	1223.508	1223.684	1223.948	1224.256	1224.630	1225.070	1225.532	1226.104	1226.720
10	1205.688	1206.194	1206.986	1206.634	1206.502	1206.634	1207.030	1207.646	1208.636
15	1178.034	1176.868	1176.494	1176.912	1178.232	1177.572	1177.506	1177.924	1179.332
20	1136.564	1136.476	1137.312	1136.212	1136.256	1137.576	1136.828	1136.916	1138.742
25	1087.086	1086.514	1085.612	1086.778	1085.964	1086.206	1086.822	1086.426	1088.582
30	1025.662	1025.816	1025.860	1025.882	1028.038	1027.004	1028.126	1027.092	1029.402
35	957.198	958.672	957.462	957.792	958.474	958.738	959.024	958.804	960.234
40	881.276	881.474	881.914	882.354	882.244	883.234	882.596	883.652	886.842
45	795.322	796.752	800.184	798.688	797.698	801.504	802.164	802.648	803.308
50	707.168	710.952	712.536	713.262	714.054	716.980	718.058	718.102	717.552
55	609.202	614.614	619.410	623.172	624.536	625.218	625.394	625.900	627.550
60	504.372	512.666	516.120	522.654	526.482	528.088	529.100	528.968	530.376
65	395.142	404.602	412.346	418.814	423.148	427.086	430.078	429.858	430.056
70	287.826	297.550	307.472	314.226	319.990	325.820	331.364	330.000	331.012
75	185.680	196.658	207.878	210.650	216.546	223.938	229.614	230.978	230.692
80	92.972	101.222	108.460	112.200	120.296	126.434	138.930	153.098	146.058
85	28.292	29.414	32.736	36.278	39.358	44.572	52.756	58.762	60.478
90	8.492	7.568	6.644	5.896	5.346	4.884	4.422	5.170	7.370

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	448.44	N.A.	13.50
0-30	948.86	N.A.	28.50
0-40	1546.57	N.A.	46.40
0-60	2696.37	N.A.	81.00
0-80	3283.21	N.A.	98.60
0-90	3329.7	N.A.	100.00
10-90	3213.37	N.A.	96.50
20-40	1098.12	N.A.	33.00
20-50	1708.8	N.A.	51.30
40-70	1536.9	N.A.	46.20
60-80	586.84	N.A.	17.60
70-80	199.75	N.A.	6.00
80-90	46.48	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	3329.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	116.33
10-20	332.11
20-30	500.42
30-40	597.71
40-50	610.68
50-60	539.13
60-70	387.10
70-80	199.75
80-90	46.48
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

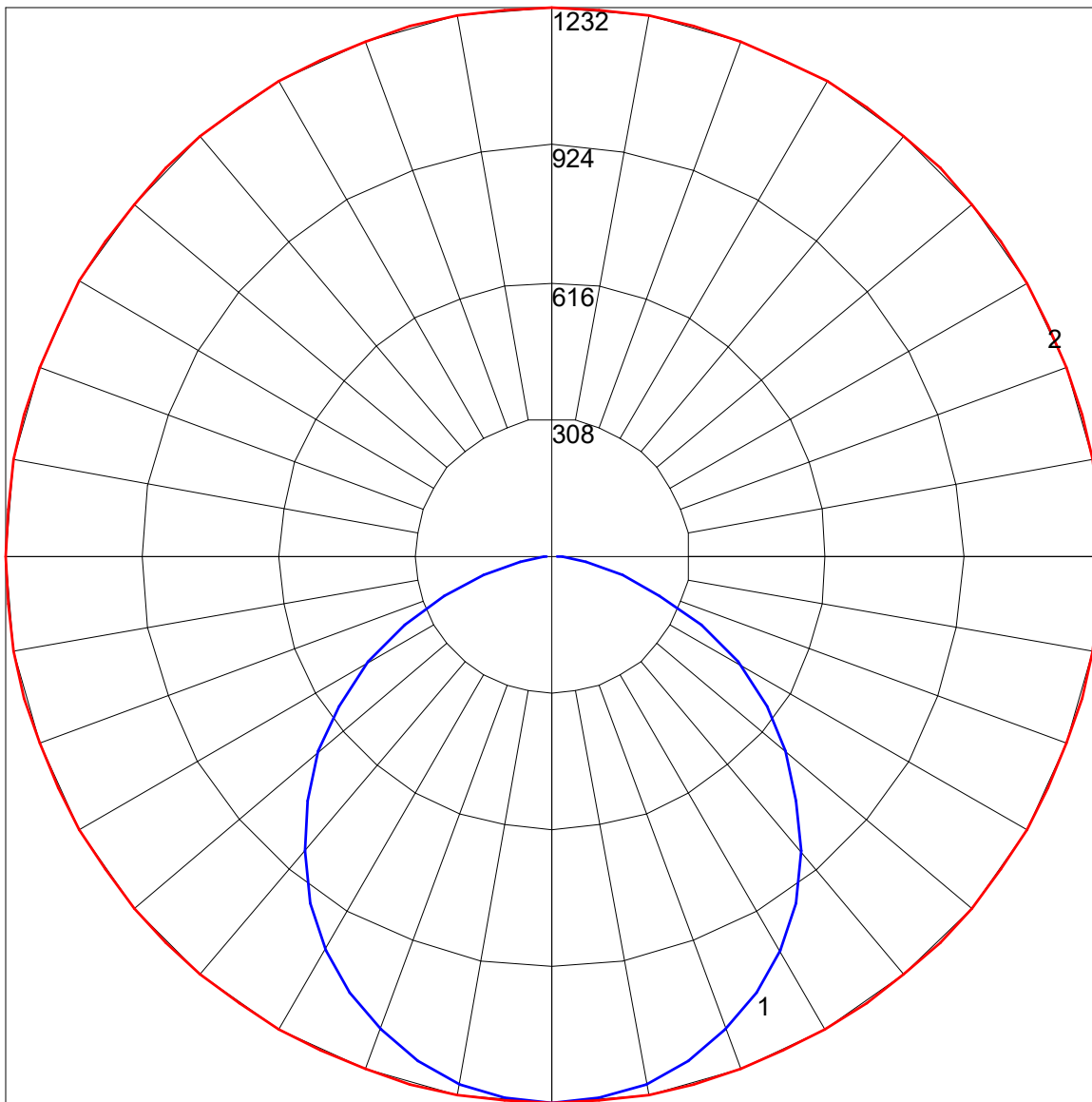
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	97	106	102	98	95	98	95	92	94	92	89	91	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	68	60	55	65	59	54	63	58	53	51
5	77	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 = 1232.242 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.)