

IES Report

BoxRail® | 207 | 120° Flying, down | 80 CRI | LO

207-BX-XX-4-48-XX-XX-XX-X-X-Z-LO-35-G2-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	108	111	113	113
Total Lumens, 4' rail length (1219mm)	1539	1588	1620	1620
Lumens per foot (305mm)	385	397	405	405
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	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_LO_35_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-35-G2-BL

[LUMINAIRE] BoxRail LED, 48", 3500K, 80 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	1620
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
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	11211	11605	13877
55	8170	9206	13222
65	4874	5822	12005
75	1494	2418	9161
85	119	227	3236

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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	510.586	510.586	510.586	510.586	510.586	510.586	510.586	510.586	510.586	510.586
5	517.586	517.192	516.792	516.194	515.643	515.057	514.448	513.810	513.155	512.488
10	537.179	536.343	535.033	533.530	531.750	529.714	527.423	523.815	520.127	516.339
15	563.870	562.606	560.408	557.763	554.173	548.506	542.422	535.972	529.209	521.246
20	588.375	586.740	583.985	580.081	573.446	566.173	557.908	547.607	537.034	526.072
25	603.055	601.013	598.386	592.603	585.800	576.955	566.538	555.837	540.873	525.312
30	601.791	600.103	597.388	591.745	584.779	576.172	566.184	552.241	536.227	518.578
35	584.391	582.517	579.461	575.372	568.777	561.440	552.746	537.202	521.901	503.249
40	549.770	548.622	545.896	542.103	537.724	532.689	522.476	510.377	496.538	477.462
45	501.253	500.407	498.388	495.680	492.310	488.540	480.182	472.190	456.994	442.314
50	437.221	436.021	434.809	434.107	434.055	431.793	426.799	419.978	408.390	393.286
55	363.469	363.063	363.399	363.312	360.690	357.234	355.668	351.526	346.608	339.213
60	287.674	287.007	285.656	280.755	278.510	277.043	277.356	276.306	274.427	269.787
65	209.154	208.087	198.772	197.078	199.021	201.214	203.331	202.826	201.770	200.634
70	125.483	120.640	118.042	121.000	125.866	129.085	131.010	133.359	135.703	136.317
75	59.798	55.094	60.094	62.019	63.574	65.691	67.071	68.069	72.291	75.006
80	14.245	17.603	17.023	18.142	19.018	20.619	22.202	24.789	26.848	31.065
85	4.280	5.081	4.791	4.686	4.611	4.733	4.431	4.652	5.139	6.038
90	4.037	4.106	4.106	4.083	4.083	4.037	3.985	3.840	3.625	3.381

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	510.586	510.586	510.586	510.586	510.586	510.586	510.586	510.586	510.586
5	511.815	511.137	510.458	509.791	509.136	508.492	507.842	507.262	506.700
10	512.494	508.608	504.786	502.848	501.039	499.357	497.808	496.370	495.175
15	513.544	506.781	500.163	493.737	487.420	484.346	481.678	479.271	477.427
20	514.164	501.607	489.532	480.211	471.459	463.188	459.424	456.234	454.041
25	509.797	493.371	477.178	461.784	450.121	439.820	432.222	428.284	425.795
30	499.305	479.463	459.888	441.531	424.670	412.885	402.445	398.164	395.653
35	481.638	460.224	437.279	416.220	397.567	382.980	371.971	366.137	362.883
40	456.564	432.465	408.946	386.025	366.821	350.912	340.158	333.465	330.119
45	419.630	397.903	374.622	352.298	333.065	317.730	307.760	301.519	298.561
50	375.921	355.163	333.958	313.879	296.107	283.313	274.392	268.604	265.698
55	322.642	305.643	288.631	270.854	256.859	245.995	238.218	233.960	232.928
60	262.363	251.621	237.005	223.126	212.477	204.612	199.416	196.191	194.961
65	198.006	190.948	182.398	175.230	169.267	164.349	161.391	159.071	158.253
70	135.824	134.247	131.312	127.768	124.793	121.319	119.318	118.349	117.607
75	77.784	80.974	81.217	79.414	78.544	78.132	75.997	75.232	76.479
80	31.500	34.237	36.354	39.753	43.488	43.506	42.700	41.963	42.056
85	6.821	7.018	7.418	8.543	9.135	9.738	10.028	10.283	10.550
90	3.115	2.819	2.529	2.239	1.943	1.653	1.409	1.340	1.409

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	196.63	N.A.	12.10
0-30	435.97	N.A.	26.90
0-40	740.07	N.A.	45.70
0-60	1341.57	N.A.	82.80
0-80	1607.57	N.A.	99.20
0-90	1620.2	N.A.	100.00
10-90	1571.17	N.A.	97.00
20-40	543.44	N.A.	33.50
20-50	865.01	N.A.	53.40
40-70	788.56	N.A.	48.70
60-80	266.01	N.A.	16.40
70-80	78.94	N.A.	4.90
80-90	12.63	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	1620.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	49.03
10-20	147.60
20-30	239.35
30-40	304.10
40-50	321.57
50-60	279.93
60-70	187.07
70-80	78.94
80-90	12.63
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

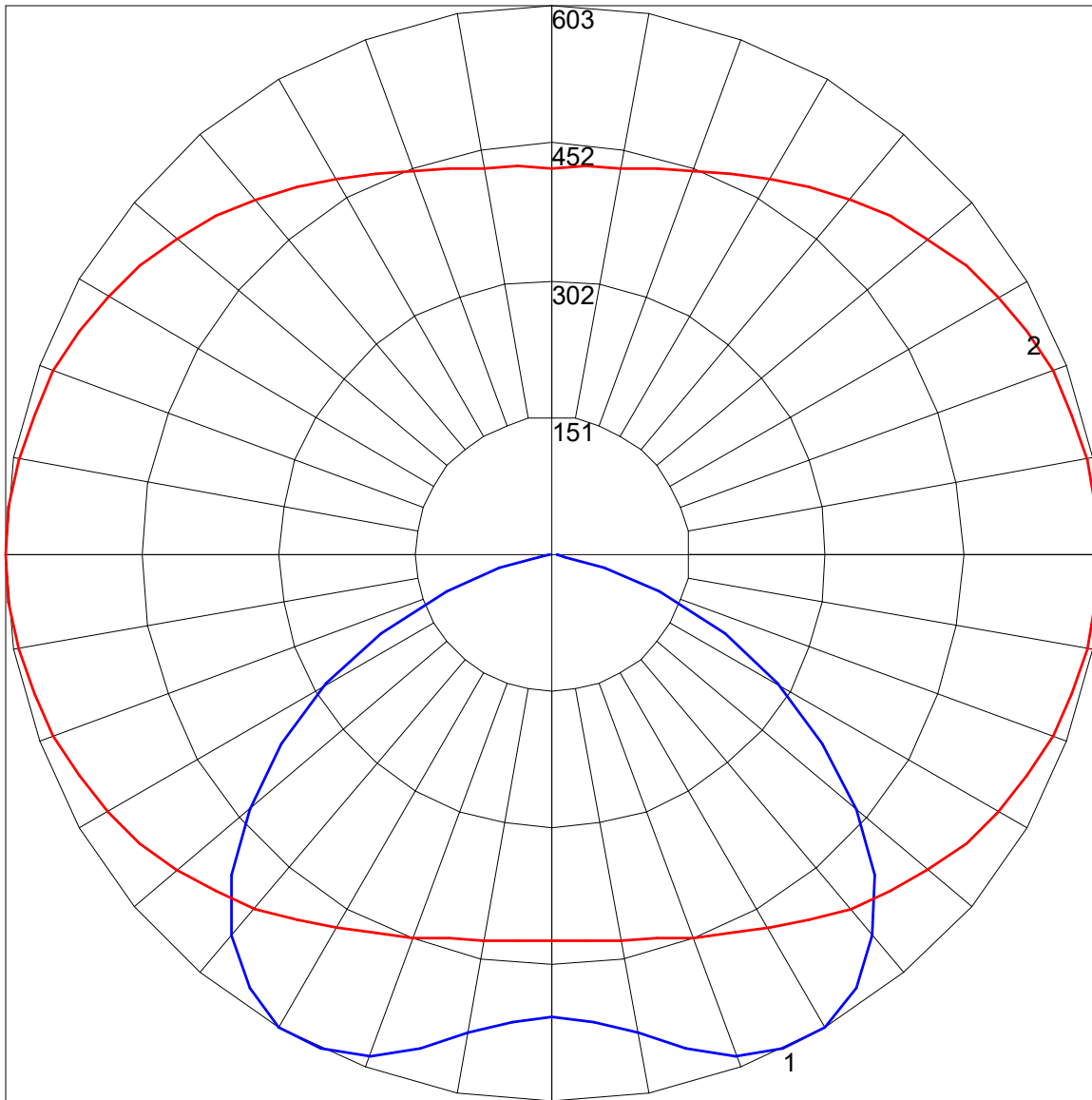
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	99	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	72
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	63	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	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 = 603.055 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.)