

IES Report

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

207-BX-XX-4-48-XX-XX-XX-X-X-Z-LO-35-G2-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	110	114	116	116
Total Lumens, 4' rail length (1219mm)	1581	1630	1664	1664
Lumens per foot (305mm)	395	408	416	416
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.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022012001 (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

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

[MORE] 120° flywing 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	1664
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	14.38
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.64
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.54
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	11352	11829	14399
55	8378	9373	13686
65	4822	6057	12399
75	1547	2469	9458
85	174	289	3490

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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	527.603	527.603	527.603	527.603	527.603	527.603	527.603	527.603	527.603	527.603
5	534.702	534.337	533.960	533.397	532.869	532.301	531.703	531.077	530.427	529.755
10	554.637	553.819	552.531	551.046	549.283	547.265	544.985	541.302	537.538	533.675
15	581.322	580.162	578.051	575.488	571.932	566.150	559.949	553.390	546.522	538.402
20	605.439	603.826	601.089	597.214	590.492	583.178	574.896	564.566	553.941	542.770
25	618.564	616.424	613.773	607.939	601.153	592.424	582.250	571.938	556.933	541.331
30	614.922	613.031	610.259	604.702	597.939	589.570	579.942	566.666	550.988	533.554
35	593.966	592.110	589.141	585.272	579.229	572.419	564.079	549.138	534.244	516.014
40	557.600	556.330	553.622	549.991	545.739	540.583	531.031	519.796	506.555	488.012
45	507.570	507.013	505.023	502.431	499.090	495.471	487.246	479.347	464.922	450.851
50	445.486	444.506	443.161	442.006	440.899	437.941	432.906	425.836	415.054	400.322
55	372.754	371.792	371.908	372.041	370.701	366.461	364.721	359.699	354.049	345.344
60	295.406	294.884	293.770	288.956	287.784	286.468	286.097	285.725	282.773	277.478
65	206.921	207.472	203.916	201.979	202.391	206.062	206.631	205.732	207.785	208.713
70	125.483	122.537	122.600	123.731	129.526	131.138	133.957	136.288	139.113	139.971
75	61.938	58.418	63.098	64.316	65.876	68.104	69.867	71.671	75.423	76.589
80	17.307	20.491	19.500	20.613	21.791	22.672	24.238	27.272	28.594	32.695
85	6.270	6.774	6.815	6.751	6.699	6.676	6.438	6.519	6.943	7.697
90	3.770	3.793	3.770	3.770	3.741	3.671	3.625	3.503	3.329	3.161

Vert. 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	527.603	527.603	527.603	527.603	527.603	527.603	527.603	527.603	527.603
5	529.070	528.380	527.684	526.988	526.304	525.625	524.929	524.320	523.711
10	529.749	525.776	521.867	519.871	518.021	516.310	514.744	513.288	512.094
15	530.532	523.630	516.913	510.429	504.078	501.103	498.556	496.283	494.589
20	530.688	518.033	505.905	496.555	487.768	479.445	475.739	472.596	470.479
25	525.880	509.443	493.197	477.798	466.024	455.573	447.870	443.897	441.403
30	514.530	494.717	475.101	456.721	439.872	427.907	417.333	412.879	410.240
35	494.984	473.999	451.194	430.273	411.701	397.138	386.094	380.173	376.838
40	467.973	444.541	421.370	398.617	379.511	363.718	353.040	346.359	342.954
45	429.177	408.250	385.480	363.358	344.375	329.597	319.435	312.887	309.795
50	383.426	363.886	343.244	323.565	305.805	293.347	284.258	278.243	275.616
55	328.848	312.040	295.597	278.713	264.492	254.313	247.016	242.312	241.094
60	268.482	256.685	242.022	228.033	216.874	208.875	203.713	200.007	199.288
65	204.346	195.170	186.052	178.588	172.881	168.478	165.944	164.401	163.456
70	139.519	138.388	135.204	130.697	126.910	124.068	122.798	122.061	121.353
75	79.135	81.693	83.073	81.629	80.069	79.593	77.975	77.766	78.955
80	32.764	34.893	37.578	41.893	43.720	43.593	42.630	42.415	42.543
85	8.277	8.584	9.025	9.802	10.051	10.579	10.527	10.747	11.380
90	2.894	2.674	2.430	2.187	1.995	1.775	1.554	1.607	1.554

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	203.11	N.A.	12.20
0-30	449.66	N.A.	27.00
0-40	761.49	N.A.	45.80
0-60	1376.98	N.A.	82.80
0-80	1649.91	N.A.	99.20
0-90	1663.74	N.A.	100.00
10-90	1613.07	N.A.	97.00
20-40	558.38	N.A.	33.60
20-50	887.00	N.A.	53.30
40-70	807.05	N.A.	48.50
60-80	272.92	N.A.	16.40
70-80	81.37	N.A.	4.90
80-90	13.83	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	1663.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	50.67
10-20	152.44
20-30	246.56
30-40	311.83
40-50	328.62
50-60	286.88
60-70	191.55
70-80	81.37
80-90	13.83
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

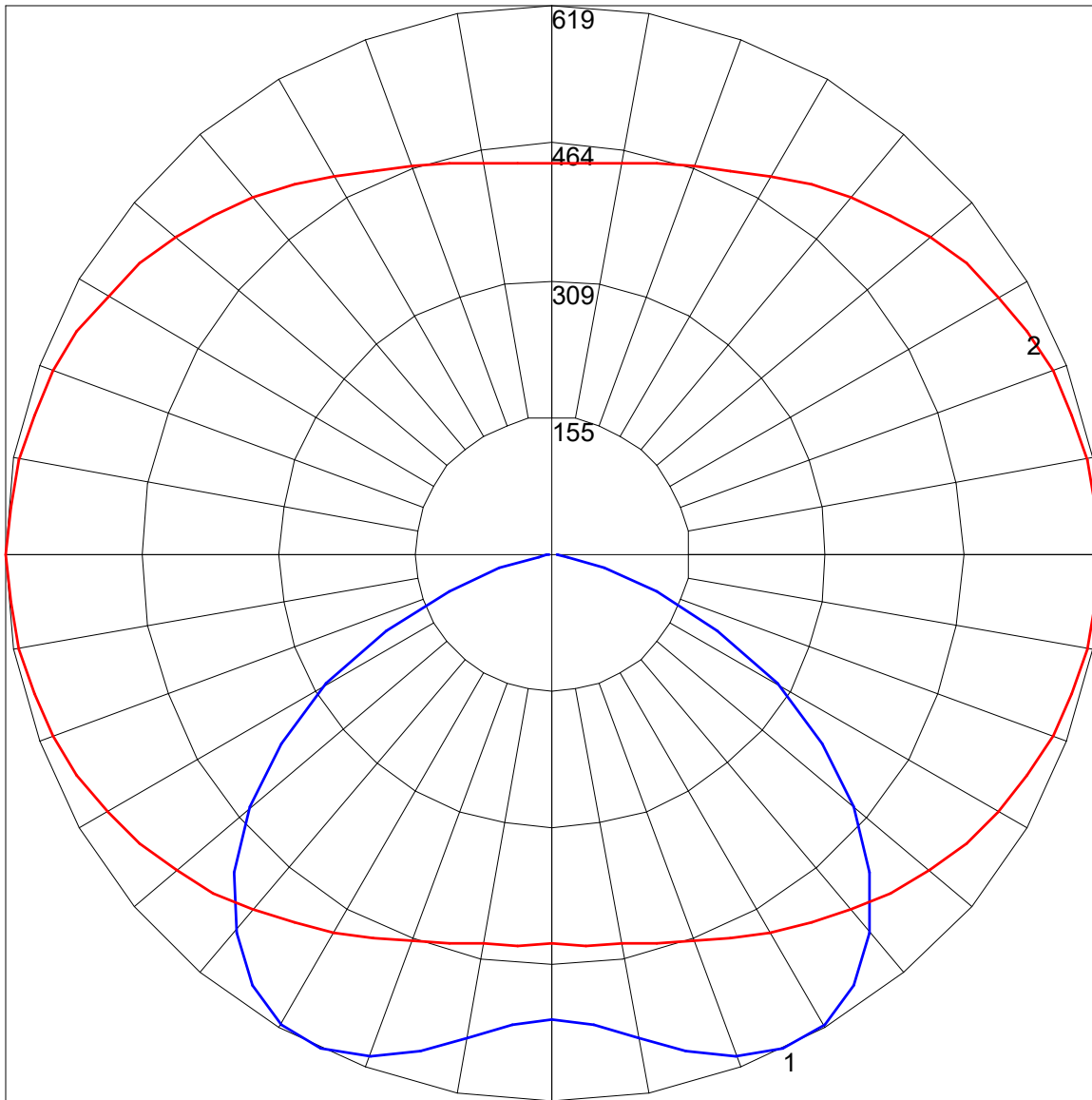
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	95	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	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	47	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	27	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 618.564 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.)