

IES Report

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

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-35-D1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	75	77	79	79
Total Lumens, 4' rail length (1219mm)	1072	1106	1129	1129
Lumens per foot (305mm)	268	277	282	282
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_D1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 (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-D1

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

[MORE] diffuse 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	1129
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	14.38
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
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	5973	7029	12481
55	4584	5606	11453
65	2990	3941	10872
75	1406	1957	9301
85	239	459	6411

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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	412.769	412.769	412.769	412.769	412.769	412.769	412.769	412.769	412.769	412.769
5	410.727	410.553	410.385	410.263	410.147	410.048	409.973	409.915	409.880	409.869
10	404.892	404.544	404.330	404.190	404.150	404.202	404.347	404.016	403.819	403.750
15	395.264	394.818	394.696	394.748	394.829	394.365	394.162	394.220	394.539	394.551
20	381.797	381.217	381.280	381.379	380.903	380.874	381.066	380.880	381.159	381.124
25	364.687	364.240	364.478	364.060	364.060	363.944	363.909	364.559	363.863	363.590
30	344.555	344.097	344.172	343.876	343.836	343.818	343.952	343.691	343.621	343.441
35	321.169	320.781	320.624	320.804	320.624	320.752	321.001	320.392	320.462	320.409
40	295.452	295.150	294.791	294.681	294.826	294.982	294.733	294.901	295.272	295.324
45	267.061	267.020	266.829	266.754	266.643	266.846	266.771	267.322	267.165	267.890
50	236.675	236.350	236.246	236.309	236.501	236.744	236.884	237.458	237.382	237.713
55	203.951	203.661	204.003	204.148	203.209	201.898	202.681	203.661	205.071	206.561
60	168.415	168.038	167.139	164.598	163.827	164.244	165.642	167.858	169.743	172.277
65	128.302	128.151	124.016	122.705	123.702	124.584	127.165	129.154	132.310	135.795
70	88.926	85.718	84.761	85.852	87.957	88.694	89.488	90.828	93.705	97.167
75	56.301	52.983	55.970	56.364	55.993	55.813	55.645	55.947	58.389	60.703
80	30.143	30.659	31.332	31.332	31.256	31.245	31.285	31.506	33.048	32.579
85	8.607	11.345	10.713	10.805	10.939	11.078	10.840	11.426	11.861	12.221
90	3.996	4.037	3.985	3.938	3.816	3.718	3.573	3.381	3.184	2.941

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	412.769	412.769	412.769	412.769	412.769	412.769	412.769	412.769	412.769
5	409.874	409.903	409.956	410.025	410.118	410.234	410.344	410.507	410.675
10	403.790	403.953	404.214	404.034	403.947	403.958	404.063	404.237	404.550
15	394.354	394.000	393.895	394.046	394.487	394.290	394.313	394.504	395.021
20	380.834	380.538	380.590	380.120	380.057	380.428	380.120	380.103	380.677
25	363.944	363.590	363.057	363.132	362.819	362.976	363.167	362.813	363.324
30	343.343	343.372	343.354	342.954	343.244	342.966	343.389	342.966	343.679
35	320.369	320.781	320.560	320.502	320.386	320.375	320.496	320.328	320.682
40	295.365	295.475	295.411	295.168	295.075	295.568	295.440	295.266	295.255
45	267.542	268.035	268.302	268.006	268.157	268.697	268.679	268.633	268.517
50	238.061	238.908	239.186	239.140	238.960	239.128	239.238	239.180	238.960
55	205.958	205.993	208.319	208.678	207.060	205.384	203.824	202.501	201.765
60	173.658	175.311	176.047	176.343	175.966	176.013	176.436	176.651	176.970
65	138.568	141.021	142.059	142.564	143.138	143.388	143.277	143.028	143.324
70	101.164	105.171	107.677	108.802	109.475	109.864	110.165	109.968	110.217
75	64.125	68.318	72.030	74.136	75.968	77.152	76.659	76.537	77.645
80	33.437	35.827	39.260	40.902	46.214	47.113	47.125	46.754	46.383
85	12.389	12.673	13.966	14.407	15.034	16.339	18.473	20.375	20.903
90	2.720	2.430	2.239	2.042	1.821	1.630	1.531	1.409	1.409

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	150.23	N.A.	13.30
0-30	317.81	N.A.	28.20
0-40	518.34	N.A.	45.90
0-60	907.82	N.A.	80.40
0-80	1110.56	N.A.	98.40
0-90	1128.55	N.A.	100.00
10-90	1089.58	N.A.	96.50
20-40	368.11	N.A.	32.60
20-50	574.45	N.A.	50.90
40-70	522.69	N.A.	46.30
60-80	202.73	N.A.	18.00
70-80	69.52	N.A.	6.20
80-90	17.99	N.A.	1.60
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	1128.55	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	38.97
10-20	111.26
20-30	167.58
30-40	200.53
40-50	206.34
50-60	183.15
60-70	133.21
70-80	69.52
80-90	17.99
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

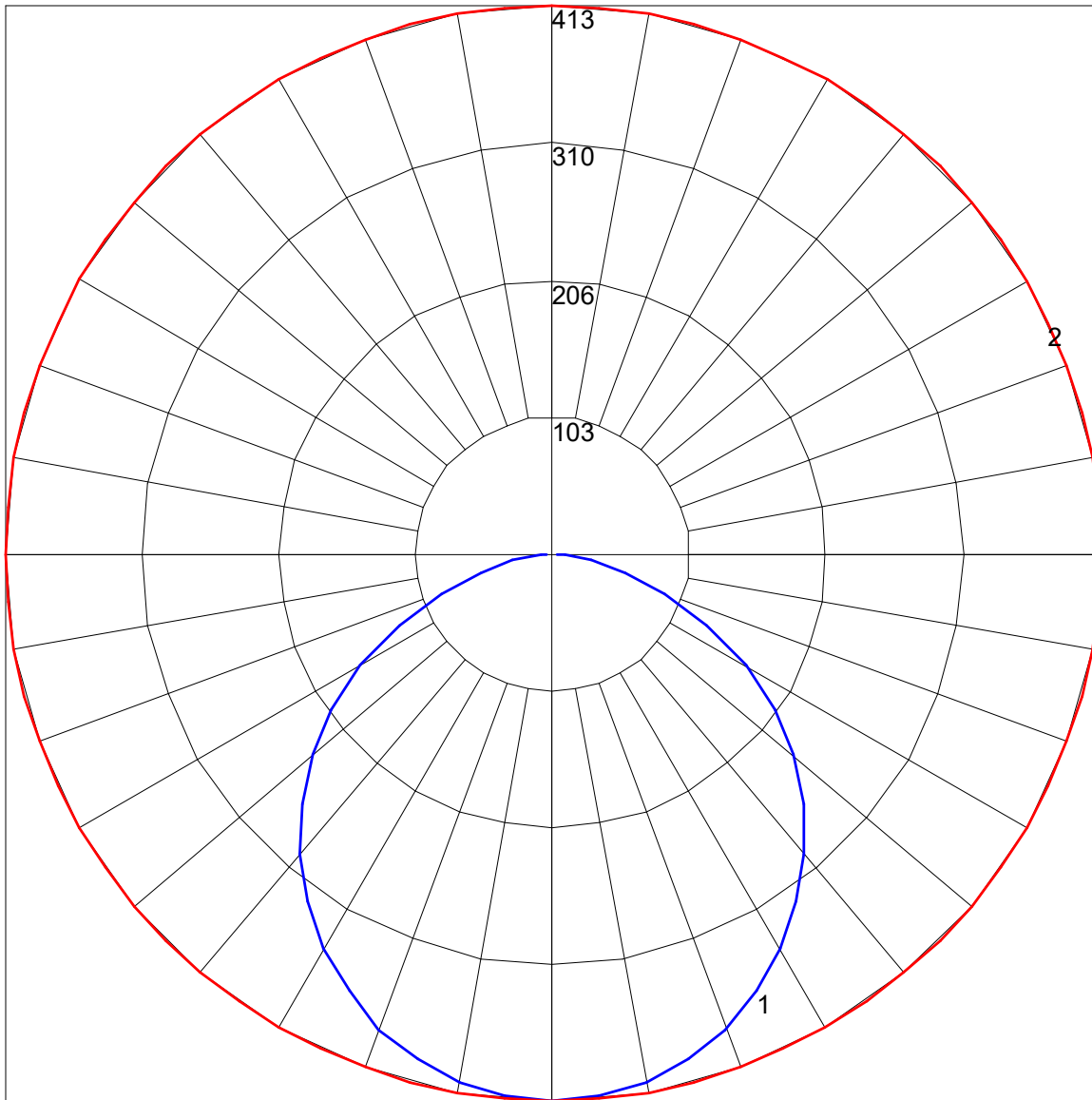
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 412.769 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.)