

IES Report

BoxRail® | 207 | 60° Symmetric, down | 80 CRI | HO

207-BX-XX-4-48-XX-XX-XX-X-X-Z-HO-35-S2-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	42	43	44	44
Total Lumens, 4' rail length (1219mm)	2138	2205	2250	2250
Lumens per foot (305mm)	534	551	563	563
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_S1_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010911 (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-S1-BL

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

[MORE] 40° symmetric 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	1912
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	37
Total Luminaire Watts	51.57
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.62
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	0.80
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	2335	5780	30952
55	1098	2734	18121
65	580	1325	10339
75	290	597	6185
85	252	277	2827

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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	2009.744	2009.744	2009.744	2009.744	2009.744	2009.744	2009.744	2009.744	2009.744	2009.744
5	1910.524	1909.446	1909.138	1909.600	1910.810	1912.790	1915.496	1918.906	1922.998	1927.750
10	1647.558	1646.194	1650.330	1657.722	1669.052	1684.188	1702.954	1720.026	1740.860	1765.082
15	1288.122	1287.000	1298.088	1315.468	1339.360	1364.704	1397.660	1437.854	1484.934	1534.346
20	926.684	925.826	942.348	965.162	992.068	1028.764	1073.402	1121.692	1177.924	1242.736
25	620.928	623.964	639.232	660.154	690.624	727.584	770.220	820.050	884.136	957.748
30	398.882	401.984	414.348	432.168	457.248	487.718	522.808	572.088	635.360	698.170
35	251.900	254.430	262.900	276.760	294.184	315.392	341.880	387.200	432.784	490.644
40	158.972	161.018	166.672	175.978	188.320	202.554	226.270	255.244	287.672	336.160
45	104.390	105.974	109.164	114.928	122.144	130.658	148.918	165.572	193.666	220.308
50	70.268	71.104	73.480	77.330	81.994	89.408	98.890	111.672	128.326	150.744
55	48.862	49.368	50.930	53.460	56.144	61.578	66.660	75.966	86.944	100.738
60	35.222	35.398	36.256	37.488	39.424	42.548	46.618	51.326	59.048	68.596
65	24.904	25.058	25.608	26.620	28.248	29.634	32.538	35.860	40.282	45.672
70	16.786	16.632	18.062	18.524	19.778	20.812	22.000	23.980	26.642	30.294
75	11.616	11.968	13.442	13.354	13.508	14.036	14.520	15.312	16.742	18.524
80	10.142	10.494	11.022	10.648	10.648	10.714	10.802	10.868	10.934	11.088
85	9.042	9.152	8.976	8.734	8.558	8.316	7.986	7.568	7.502	7.370
90	8.976	9.130	9.218	9.042	8.844	8.756	8.492	8.030	7.370	6.820

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	2009.744	2009.744	2009.744	2009.744	2009.744	2009.744	2009.744	2009.744	2009.744
5	1933.118	1939.080	1945.548	1952.500	1959.892	1967.658	1975.622	1984.026	1992.584
10	1792.516	1822.942	1855.524	1866.260	1878.272	1891.494	1905.816	1920.974	1937.452
15	1580.590	1620.960	1665.488	1713.822	1768.206	1784.992	1804.154	1825.032	1848.924
20	1311.552	1383.316	1457.918	1514.722	1576.388	1645.094	1667.600	1693.274	1724.272
25	1037.498	1118.524	1203.906	1294.590	1365.870	1438.206	1494.636	1520.244	1554.058
30	776.600	864.028	951.676	1046.584	1143.274	1215.764	1293.490	1314.940	1347.148
35	560.912	636.878	719.840	803.528	899.228	981.332	1052.238	1088.450	1119.580
40	386.144	453.156	520.300	594.418	673.200	743.226	795.784	840.356	884.268
45	263.868	309.034	363.396	429.616	493.592	553.278	602.646	640.706	665.918
50	175.670	209.660	250.162	295.416	344.234	389.488	426.756	454.388	470.074
55	119.570	141.196	167.178	199.034	233.266	264.110	290.246	310.354	319.220
60	80.366	93.830	111.386	132.990	156.222	178.376	196.064	205.238	210.782
65	53.394	62.788	74.558	87.714	101.442	114.972	126.874	133.320	136.290
70	35.068	41.162	48.642	56.716	64.790	73.040	80.410	84.480	86.680
75	21.318	24.882	29.480	34.298	39.006	43.648	47.586	50.116	51.634
80	11.968	13.112	15.070	17.358	19.910	22.264	24.596	25.718	25.630
85	6.886	6.292	6.732	7.370	7.700	7.678	8.778	9.526	9.218
90	6.182	5.544	5.082	4.422	4.048	3.498	2.948	3.322	3.498

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	609.62	N.A.	31.90
0-30	1078.78	N.A.	56.40
0-40	1446.87	N.A.	75.70
0-60	1809.98	N.A.	94.70
0-80	1902.1	N.A.	99.50
0-90	1912.26	N.A.	100.00
10-90	1732.31	N.A.	90.60
20-40	837.25	N.A.	43.80
20-50	1071.35	N.A.	56.00
40-70	427.33	N.A.	22.30
60-80	92.12	N.A.	4.80
70-80	27.90	N.A.	1.50
80-90	10.15	N.A.	0.50
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	1912.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	179.94
10-20	429.68
20-30	469.15
30-40	368.09
40-50	234.11
50-60	129.01
60-70	64.21
70-80	27.90
80-90	10.15
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

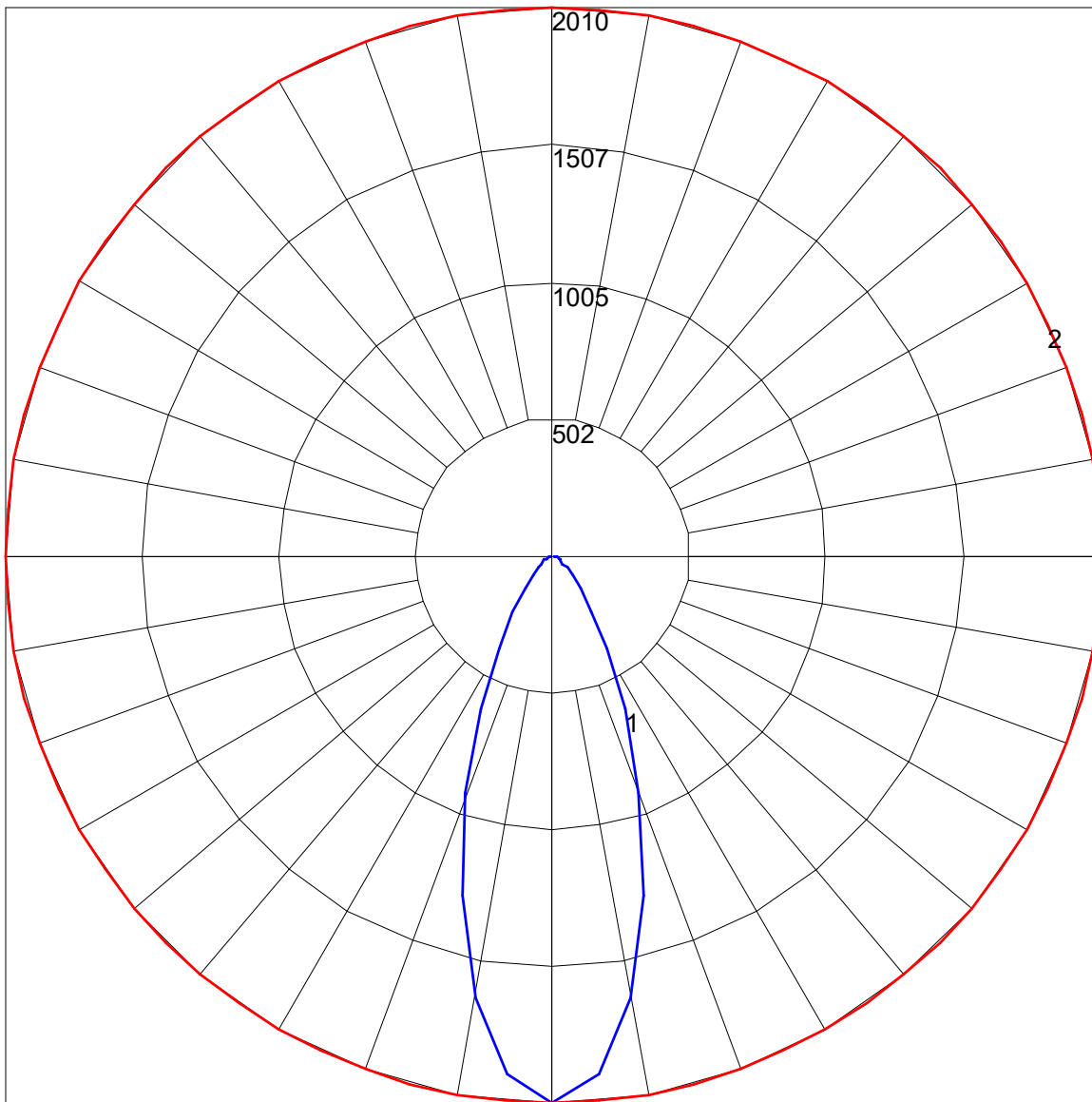
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82
3	99	91	85	81	97	90	84	80	87	83	79	85	81	77	82	79	76	74
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	55	53
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49
9	70	59	52	48	69	58	52	48	57	52	48	57	51	47	56	51	47	46
10	66	56	49	45	65	55	49	45	54	49	45	53	48	44	53	48	44	43

POLAR GRAPH



Maximum Candela = 2009.744 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.)