

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-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	58	60	62	62
Total Lumens, 4' rail length (1219mm)	834	860	878	878
Lumens per foot (305mm)	208	215	219	219
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_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-LO-35-D1-BL

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

[MORE] diffuse 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	878
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	61
Total Luminaire Watts	14.38
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	4583	5500	9844
55	3481	4328	9392
65	2270	2943	8601
75	1071	1494	7285
85	143	267	4890

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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	324.864	324.864	324.864	324.864	324.864	324.864	324.864	324.864	324.864	324.864
5	323.118	322.979	322.845	322.764	322.683	322.613	322.567	322.538	322.526	322.538
10	318.495	318.258	318.136	318.060	318.055	318.124	318.252	318.008	317.869	317.823
15	310.526	310.207	310.178	310.288	310.428	310.114	310.033	310.184	310.567	310.689
20	299.825	299.471	299.634	299.814	299.495	299.489	299.616	299.425	299.611	299.692
25	286.555	286.102	286.218	286.021	286.195	286.224	286.253	286.793	286.282	286.160
30	270.367	270.083	270.210	270.065	270.123	270.199	270.419	270.297	270.355	270.384
35	251.111	250.867	250.809	251.059	251.105	251.447	251.842	251.610	252.080	252.288
40	228.990	228.862	228.845	229.042	229.512	230.196	230.283	230.788	231.507	231.971
45	204.926	205.065	205.187	205.558	205.859	206.167	206.880	207.982	208.324	209.641
50	180.954	180.734	180.583	180.809	181.279	181.656	182.572	183.321	183.953	185.339
55	154.848	154.599	154.790	155.046	154.709	153.845	154.315	155.411	157.093	159.483
60	127.333	127.142	126.452	124.398	123.726	123.726	124.723	125.831	127.989	130.564
65	97.428	97.185	93.629	92.696	93.142	94.360	95.839	97.144	99.232	101.425
70	68.307	65.424	64.252	65.975	67.251	68.231	68.921	69.235	70.847	73.428
75	42.879	39.562	41.627	42.137	42.021	42.131	42.369	42.821	44.527	46.342
80	19.546	19.720	20.155	20.607	20.793	21.089	21.350	21.895	22.539	23.368
85	5.156	6.113	5.475	5.388	5.371	5.638	5.301	6.015	6.618	7.117
90	2.975	3.039	3.039	3.086	3.062	3.016	2.964	2.819	2.674	2.453

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	324.864	324.864	324.864	324.864	324.864	324.864	324.864	324.864	324.864
5	322.561	322.608	322.677	322.758	322.857	322.973	323.095	323.246	323.408
10	317.863	317.997	318.205	318.113	318.078	318.113	318.217	318.379	318.640
15	310.573	310.265	310.167	310.277	310.625	310.451	310.433	310.544	310.915
20	299.640	299.616	299.837	299.547	299.558	299.906	299.709	299.732	300.214
25	286.595	286.445	286.207	286.514	286.300	286.363	286.526	286.421	286.990
30	270.402	270.442	270.454	270.460	271.028	270.756	271.051	270.779	271.388
35	252.352	252.741	252.422	252.509	252.689	252.758	252.834	252.776	253.153
40	232.336	232.389	232.505	232.621	232.592	232.853	232.684	232.963	233.804
45	209.676	210.053	210.958	210.563	210.302	211.306	211.480	211.607	211.781
50	186.435	187.433	187.850	188.042	188.251	189.022	189.306	189.318	189.173
55	160.608	162.035	163.299	164.291	164.650	164.830	164.877	165.010	165.445
60	132.971	135.157	136.068	137.791	138.800	139.223	139.490	139.455	139.826
65	104.174	106.668	108.709	110.415	111.557	112.595	113.384	113.326	113.378
70	75.881	78.445	81.061	82.841	84.361	85.898	87.360	87.000	87.267
75	48.952	51.846	54.804	55.535	57.089	59.038	60.535	60.894	60.819
80	24.511	26.686	28.594	29.580	31.714	33.333	36.627	40.362	38.506
85	7.459	7.755	8.630	9.564	10.376	11.751	13.908	15.492	15.944
90	2.239	1.995	1.752	1.554	1.409	1.288	1.166	1.363	1.943

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	118.23	N.A.	13.50
0-30	250.15	N.A.	28.50
0-40	407.73	N.A.	46.40
0-60	710.86	N.A.	81.00
0-80	865.57	N.A.	98.60
0-90	877.83	N.A.	100.00
10-90	847.16	N.A.	96.50
20-40	289.50	N.A.	33.00
20-50	450.50	N.A.	51.30
40-70	405.18	N.A.	46.20
60-80	154.71	N.A.	17.60
70-80	52.66	N.A.	6.00
80-90	12.26	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	877.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	30.67
10-20	87.56
20-30	131.93
30-40	157.58
40-50	161.00
50-60	142.13
60-70	102.05
70-80	52.66
80-90	12.26
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

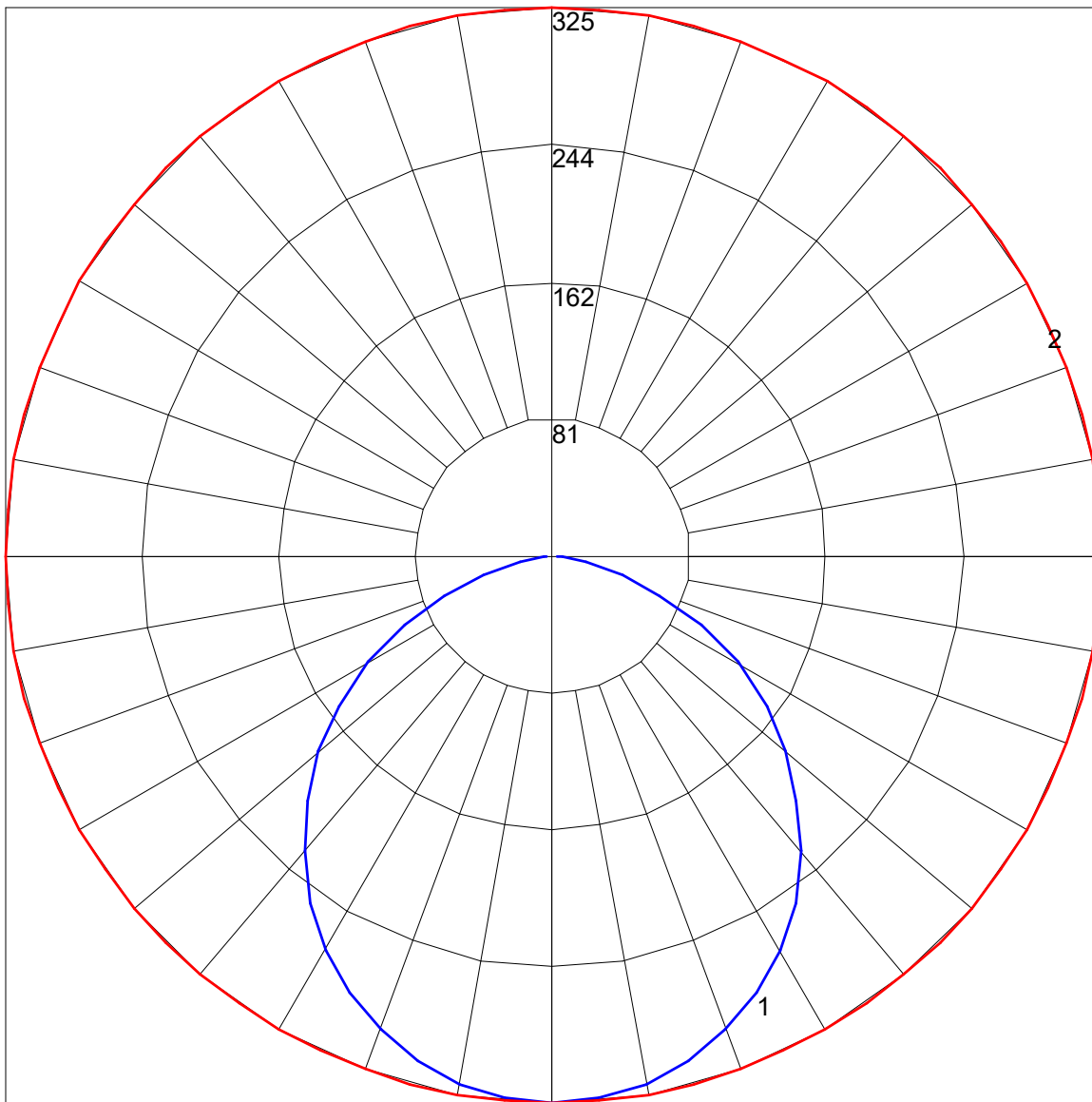
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 324.864 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.)