

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	85	88	90	90
Total Lumens, 4' rail length (1219mm)	2144	2212	2257	2257
Lumens per foot (305mm)	536	553	564	564
Input Power (W), 4' rail length (1219mm)	25.3	25.3	25.3	25.3
Watts per foot (305mm)	6.4	6.4	6.4	6.4
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_SO_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-SO-35-D1

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

[MORE] diffuse lens down, standard 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	2257
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	25.26
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	11946	14057	24961
55	9168	11212	22907
65	5979	7882	21744
75	2812	3913	18601
85	479	917	12822

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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	825.537	825.537	825.537	825.537	825.537	825.537	825.537	825.537	825.537	825.537
5	821.454	821.106	820.770	820.526	820.294	820.097	819.946	819.830	819.760	819.737
10	809.784	809.088	808.659	808.381	808.300	808.404	808.694	808.033	807.638	807.499
15	790.528	789.635	789.392	789.496	789.658	788.730	788.324	788.440	789.078	789.102
20	763.593	762.433	762.561	762.758	761.807	761.749	762.132	761.760	762.317	762.248
25	729.373	728.480	728.956	728.120	728.120	727.888	727.819	729.118	727.726	727.181
30	689.110	688.193	688.344	687.752	687.671	687.636	687.903	687.381	687.242	686.882
35	642.338	641.561	641.248	641.608	641.248	641.503	642.002	640.784	640.923	640.819
40	590.904	590.301	589.582	589.361	589.651	589.964	589.466	589.802	590.544	590.649
45	534.122	534.041	533.658	533.507	533.287	533.693	533.542	534.644	534.331	535.781
50	473.350	472.700	472.491	472.619	473.002	473.489	473.767	474.916	474.765	475.426
55	407.902	407.322	408.007	408.297	406.418	403.796	405.362	407.322	410.141	413.122
60	336.829	336.075	334.277	329.196	327.654	328.489	331.284	335.716	339.486	344.555
65	256.604	256.302	248.031	245.410	247.405	249.168	254.330	258.309	264.619	271.591
70	177.851	171.436	169.522	171.703	175.914	177.387	178.976	181.656	187.410	194.335
75	112.601	105.966	111.940	112.729	111.986	111.627	111.290	111.894	116.777	121.406
80	60.285	61.318	62.663	62.663	62.512	62.489	62.570	63.011	66.097	65.157
85	17.214	22.690	21.425	21.611	21.878	22.156	21.680	22.852	23.722	24.441
90	7.992	8.074	7.969	7.876	7.633	7.436	7.146	6.763	6.368	5.881

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	825.537	825.537	825.537	825.537	825.537	825.537	825.537	825.537	825.537
5	819.749	819.807	819.911	820.050	820.236	820.468	820.688	821.013	821.350
10	807.580	807.905	808.427	808.068	807.894	807.917	808.126	808.474	809.100
15	788.707	788.000	787.791	788.092	788.974	788.580	788.626	789.009	790.041
20	761.668	761.076	761.180	760.241	760.113	760.856	760.241	760.206	761.354
25	727.888	727.181	726.114	726.264	725.638	725.951	726.334	725.626	726.647
30	686.685	686.743	686.708	685.908	686.488	685.931	686.778	685.931	687.358
35	640.738	641.561	641.120	641.004	640.772	640.749	640.993	640.656	641.364
40	590.730	590.950	590.823	590.336	590.150	591.136	590.881	590.533	590.510
45	535.085	536.071	536.604	536.013	536.314	537.393	537.358	537.266	537.034
50	476.122	477.816	478.372	478.280	477.920	478.256	478.477	478.361	477.920
55	411.916	411.986	416.637	417.356	414.120	410.768	407.647	405.002	403.529
60	347.316	350.622	352.095	352.686	351.932	352.025	352.872	353.301	353.939
65	277.136	282.042	284.119	285.128	286.276	286.775	286.555	286.056	286.648
70	202.327	210.343	215.354	217.604	218.950	219.727	220.330	219.936	220.435
75	128.250	136.636	144.060	148.271	151.937	154.303	153.317	153.074	155.289
80	66.874	71.653	78.520	81.803	92.429	94.227	94.250	93.508	92.765
85	24.778	25.346	27.933	28.814	30.067	32.677	36.946	40.751	41.806
90	5.440	4.860	4.478	4.083	3.642	3.260	3.062	2.819	2.819

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	300.45	N.A.	13.30
0-30	635.62	N.A.	28.20
0-40	1036.68	N.A.	45.90
0-60	1815.65	N.A.	80.40
0-80	2221.12	N.A.	98.40
0-90	2257.1	N.A.	100.00
10-90	2179.16	N.A.	96.50
20-40	736.23	N.A.	32.60
20-50	1148.9	N.A.	50.90
40-70	1045.39	N.A.	46.30
60-80	405.47	N.A.	18.00
70-80	139.05	N.A.	6.20
80-90	35.98	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	2257.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	77.93
10-20	222.52
20-30	335.16
30-40	401.07
40-50	412.67
50-60	366.29
60-70	266.42
70-80	139.05
80-90	35.98
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

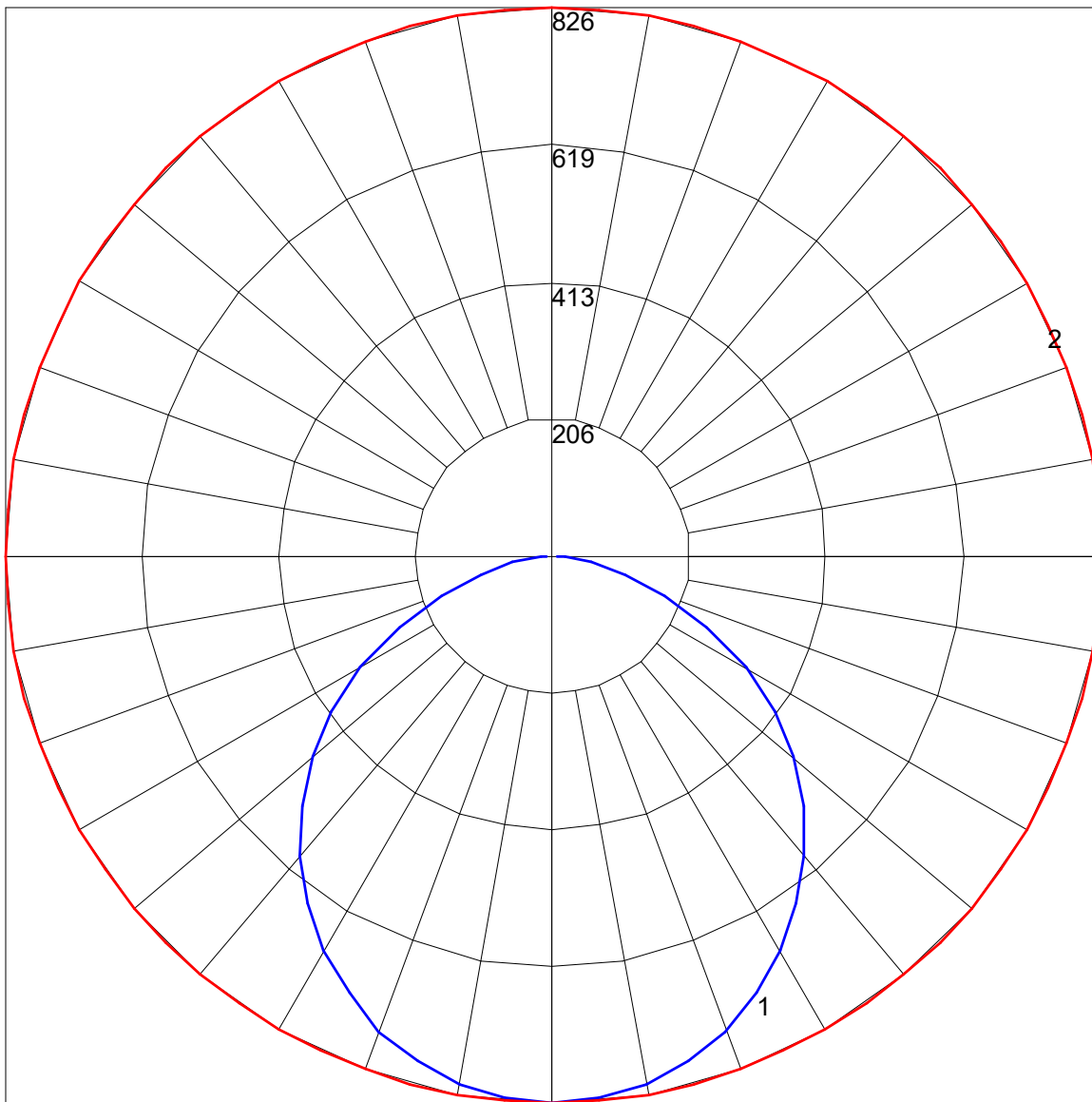
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	81	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	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	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	30	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 = 825.537 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.)