

IES Report

BoxRail® | 107 | 40° Symmetric | 80 CRI | SO

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-35-S1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	39	40	41	41
Total Lumens, 4' rail length (1219mm)	916	945	964	964
Lumens per foot (305mm)	229	236	241	241
Input Power (W), 4' rail length (1219mm)	23.9	23.9	23.9	23.9
Watts per foot (305mm)	6.0	6.0	6.0	6.0
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_107_BX_SO_35_S1_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L121911512 (SOURCE REPORT FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB
[ISSUE DATE] 12/23/2019
[MANUFAC] Vode Lighting
[LUMCAT] 107-BX-48-Z-SO-35-S1-BL
[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board, 40° black symmetric lens,
[MORE] 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	964
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	40
Total Luminaire Watts	23.92
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.74
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	0.84
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.01 ft
Luminous Width (90-270)	3.84 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	29113	46732	111004
55	14103	22337	61434
65	7087	12598	35313
75	5045	8096	21463
85	0	2795	11555

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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>
0.0	956.072	956.072	956.072	956.072	956.072	956.072	956.072	956.072	956.072	956.072
1.0	885.045	903.663	919.312	934.879	942.848	944.739	947.465	948.776	950.771	977.950
3.0	907.897	911.737	924.566	937.257	947.221	951.548	952.917	953.694	954.761	977.810
5.0	891.367	899.336	916.493	929.090	935.842	940.226	942.651	944.739	946.792	949.657
7.0	867.634	879.500	893.212	906.772	914.161	918.395	919.950	922.815	926.852	931.329
9.0	850.036	857.043	873.376	886.252	893.548	890.822	892.237	896.320	909.011	916.934
11.0	844.782	840.269	846.638	854.270	855.338	851.208	854.607	861.555	870.940	883.676
13.0	795.876	791.642	795.192	803.416	805.307	801.224	805.597	811.188	826.024	841.476
15.0	678.032	683.321	698.935	708.366	718.620	736.565	747.933	763.350	780.564	797.291
17.0	647.976	645.598	652.836	662.418	670.341	681.964	691.546	709.236	729.756	750.856
19.5	606.552	600.578	598.920	603.014	600.961	605.880	599.024	619.974	645.308	672.580
22.5	453.026	456.715	460.218	465.520	483.940	498.533	518.856	520.214	549.527	580.696
25.5	401.488	395.699	395.502	397.254	402.555	414.132	430.557	428.179	458.513	491.190
29.0	309.697	302.748	300.950	306.785	311.541	317.620	328.222	351.318	378.636	409.747
33.0	205.169	207.837	205.749	207.791	214.310	224.808	241.094	262.392	266.765	296.322
37.5	131.857	133.458	132.971	136.230	142.738	151.879	163.943	180.125	182.897	206.480
42.5	90.329	87.754	87.267	89.262	92.962	95.723	104.087	115.176	129.270	147.169
47.5	56.689	56.248	55.576	56.596	58.197	61.109	59.798	67.431	77.012	88.821
55.0	28.884	28.443	28.002	28.536	29.418	31.018	30.485	34.475	39.579	45.750
65.0	10.695	10.985	11.032	11.380	12.110	12.980	14.245	15.846	16.484	19.012
75.0	4.663	4.663	4.617	4.860	4.965	5.197	5.684	6.276	6.519	7.482
85.0	0.000	0.000	0.000	0.000	0.093	0.093	0.197	0.290	0.487	0.870
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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>
0.0	956.072	956.072	956.072	956.072	956.072	956.072	956.072	956.072	956.072
1.0	978.727	979.608	980.281	981.348	982.566	983.158	983.634	983.982	984.608
3.0	978.680	979.852	980.768	981.836	982.671	983.541	984.318	984.515	984.898
5.0	970.166	972.892	974.980	977.126	979.365	980.432	981.499	981.894	982.566
7.0	949.994	954.761	959.471	964.146	967.544	970.224	972.115	973.379	974.597
9.0	925.390	933.266	940.806	947.175	953.010	957.139	960.492	962.684	963.798
11.0	895.543	907.062	917.664	927.780	935.122	941.630	946.885	950.191	951.652
13.0	857.333	872.842	887.377	901.332	912.758	920.970	928.406	932.640	933.951
15.0	815.515	832.822	849.166	868.759	882.946	896.123	906.146	912.560	918.488
17.0	773.221	794.902	813.427	836.615	855.964	871.578	882.412	890.776	893.989
19.5	702.136	731.403	759.556	787.315	810.411	828.252	843.424	852.275	853.145
22.5	615.020	648.904	682.300	715.801	742.934	766.656	785.714	797.825	801.421
25.5	526.826	564.456	602.040	640.053	672.730	698.981	721.056	734.616	738.502
29.0	426.961	465.763	506.062	545.641	579.675	611.668	637.629	653.672	661.397
33.0	330.600	367.790	405.524	445.730	482.293	513.161	538.588	555.408	560.268
37.5	234.830	266.429	300.510	336.388	368.277	398.808	423.562	439.559	444.466
42.5	168.803	191.214	216.839	244.447	260.930	287.726	309.940	324.092	330.890
47.5	103.553	120.617	139.966	161.066	181.633	200.019	216.444	227.047	229.668
55.0	53.534	62.721	73.312	84.889	95.967	107.346	116.928	123.389	125.825
65.0	22.168	25.868	30.195	35.102	40.008	45.066	49.254	52.165	53.290
75.0	8.561	9.918	11.472	13.317	15.068	16.820	18.421	19.500	19.836
85.0	1.357	1.949	2.436	2.680	2.865	3.062	3.260	3.503	3.596
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	300.71	N.A.	31.20
0-30	538.97	N.A.	55.90
0-40	711.37	N.A.	73.80
0-60	899.00	N.A.	93.20
0-80	957.81	N.A.	99.30
0-90	964.20	N.A.	100.00
10-90	891.35	N.A.	92.40
20-40	410.66	N.A.	42.60
20-50	541.93	N.A.	56.20
40-70	228.39	N.A.	23.70
60-80	58.81	N.A.	6.10
70-80	18.05	N.A.	1.90
80-90	6.39	N.A.	0.70
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	964.20	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	72.85
10-20	227.86
20-30	238.26
30-40	172.40
40-50	131.27
50-60	56.36
60-70	40.76
70-80	18.05
80-90	6.39
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

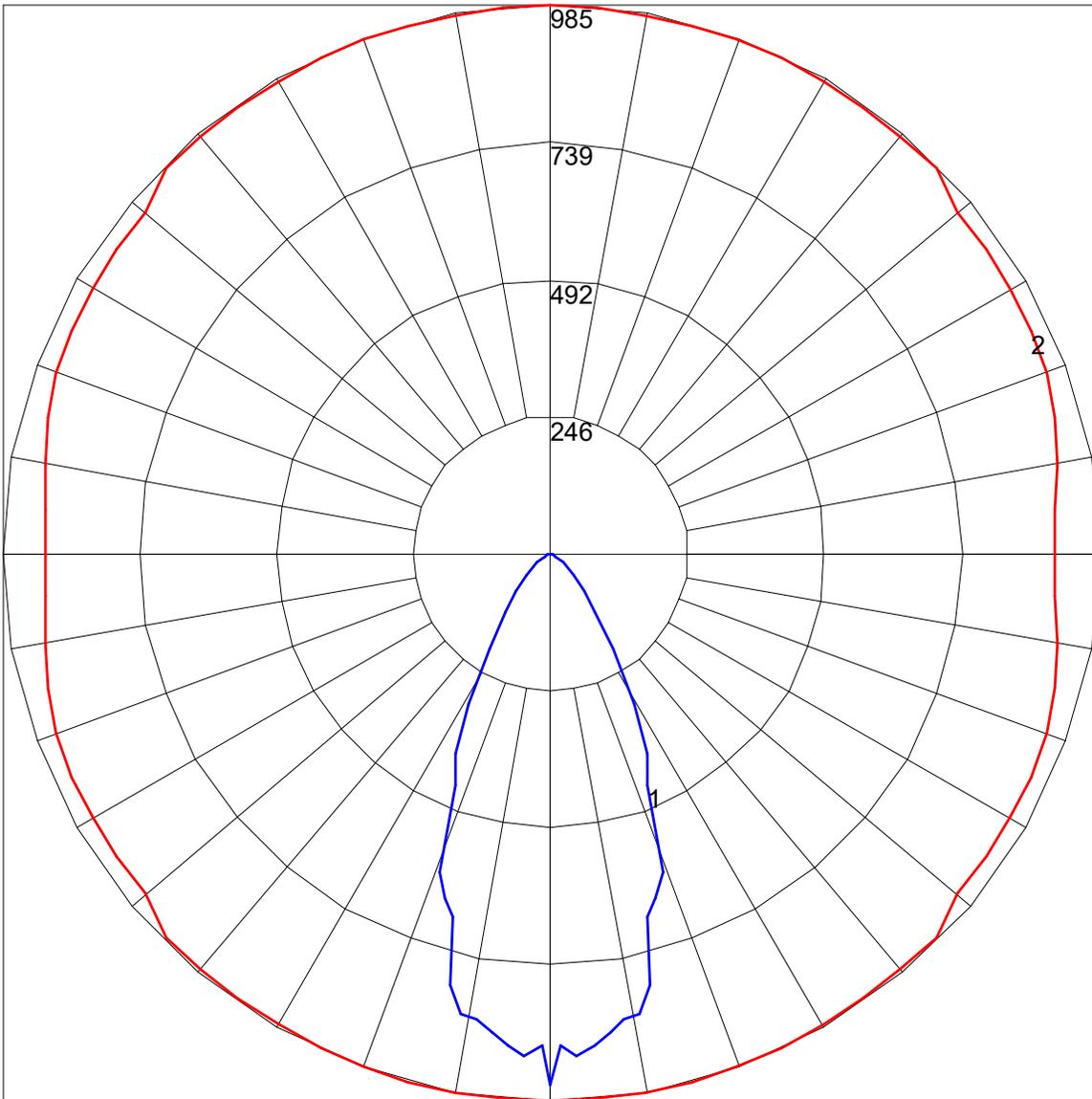
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	81	78	75	74
4	92	83	77	72	90	82	76	71	80	74	70	78	73	69	76	72	69	67
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56
7	77	66	59	55	76	66	59	54	64	58	54	63	58	54	62	57	53	52
8	73	62	55	50	72	61	55	50	60	54	50	59	54	50	58	53	50	48
9	69	58	51	47	68	58	51	47	56	51	47	56	50	46	55	50	46	45
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42

POLAR GRAPH



Maximum Candela = 984.898 Located At Horizontal Angle = 90, Vertical Angle = 3
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (3) (Through Max. Cd.)