

IES Report

BoxRail® | 107 | 60° Symmetric | 80 CRI | SO

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-35-S2-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	45	46	47	47
Total Lumens, 4' rail length (1219mm)	1066	1099	1122	1122
Lumens per foot (305mm)	266	275	280	280
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_S2_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L121911513 (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-S2-BL
[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board, 60° black symmetric lens,
[MORE] standard 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	1122
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	47
Total Luminaire Watts	23.92
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.74
Spacing Criterion (90-270)	1.08
Spacing Criterion (Diagonal)	0.88
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.02 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	17099	28342	64033
55	8000	13876	37055
65	4574	7925	21780
75	2943	4996	13418
85	149	1714	7194

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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	1047.410	1047.410	1047.410	1047.410	1047.410	1047.410	1047.410	1047.410	1047.410	1047.410
1.0	1000.941	1008.144	1007.414	1014.652	1036.773	1049.661	1058.314	1063.766	1067.942	1075.424
3.0	1005.221	1011.010	1010.627	1020.684	1040.137	1051.018	1057.827	1065.077	1074.462	1082.721
5.0	1002.310	1005.813	1006.590	1014.316	1033.038	1043.536	1049.707	1059.672	1071.933	1079.751
7.0	974.400	976.244	978.680	985.142	1007.994	1018.109	1022.876	1031.576	1042.910	1059.092
9.0	940.563	941.676	944.402	951.409	975.038	983.982	992.392	1004.490	1025.405	1037.852
11.0	897.295	896.274	899.626	904.487	926.956	938.185	943.776	958.067	985.977	1004.305
13.0	843.424	841.093	844.155	849.016	869.582	881.925	890.532	910.368	939.693	962.348
15.0	788.881	786.248	790.575	794.368	812.800	826.604	838.610	869.536	898.072	923.163
17.0	728.782	724.165	729.605	734.129	750.218	762.132	773.952	800.980	832.973	863.597
19.5	648.568	643.116	649.484	651.433	666.791	677.881	697.322	732.378	767.096	798.985
22.5	548.796	542.138	547.346	545.594	557.983	572.715	590.753	622.363	662.174	698.053
25.5	457.597	450.010	456.762	461.193	468.536	482.490	503.289	535.386	572.669	611.123
29.0	354.716	348.012	353.406	349.032	355.644	368.428	388.948	416.753	454.186	492.698
33.0	255.629	249.551	255.490	260.884	263.216	268.610	285.093	309.697	341.887	375.620
37.5	170.160	166.077	170.752	167.632	171.228	179.545	193.940	214.507	239.494	268.610
42.5	106.674	103.600	106.476	109.434	110.270	112.798	122.078	135.256	152.714	174.000
47.5	66.027	64.276	66.027	67.338	68.022	70.354	76.618	85.620	98.066	112.253
55.0	32.770	31.946	32.816	32.863	33.547	35.102	38.257	42.781	49.439	56.840
65.0	13.804	13.514	13.908	14.001	14.245	14.929	16.240	18.235	20.810	23.919
75.0	5.440	5.394	5.545	5.498	5.638	6.032	6.519	7.099	8.120	9.234
85.0	0.093	0.093	0.093	0.093	0.093	0.197	0.290	0.441	0.731	1.067
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	1047.410	1047.410	1047.410	1047.410	1047.410	1047.410	1047.410	1047.410	1047.410
1.0	1082.036	1085.980	1090.748	1095.991	1099.007	1101.490	1102.847	1103.578	1104.993
3.0	1087.291	1093.567	1097.070	1099.831	1100.759	1102.998	1104.216	1104.703	1105.283
5.0	1085.934	1089.089	1091.862	1091.954	1094.298	1096.722	1098.810	1100.179	1100.132
7.0	1069.358	1073.487	1076.016	1078.440	1081.944	1084.867	1088.022	1089.089	1089.530
9.0	1048.060	1054.626	1059.289	1062.885	1067.119	1071.875	1075.042	1077.524	1078.440
11.0	1018.503	1027.203	1032.748	1039.453	1046.842	1052.874	1057.537	1060.217	1061.423
13.0	978.437	994.677	1003.620	1013.538	1022.679	1030.068	1035.752	1039.836	1041.587
15.0	941.004	957.963	970.897	984.028	995.651	1005.418	1013.295	1018.352	1019.222
17.0	888.398	907.108	925.100	942.024	956.756	968.519	977.903	984.364	986.557
19.5	825.340	847.310	869.780	891.216	910.124	926.411	938.231	946.108	949.309
22.5	737.783	766.215	793.742	820.433	844.399	863.701	878.526	888.398	892.527
25.5	644.484	678.124	710.790	742.586	770.542	793.347	810.457	821.883	826.117
29.0	532.173	569.514	605.590	643.556	675.746	702.670	723.098	736.078	740.648
33.0	412.960	452.052	490.170	528.090	561.776	590.127	611.668	625.855	631.063
37.5	300.220	333.523	369.008	404.794	435.418	466.494	488.708	503.243	508.637
42.5	199.717	227.337	255.780	284.896	313.293	339.300	358.800	371.687	376.501
47.5	130.245	149.501	171.332	194.567	217.036	238.426	254.806	265.454	270.222
55.0	66.514	77.210	89.552	103.658	117.415	130.442	141.578	148.967	151.786
65.0	27.759	32.190	37.387	43.268	49.439	55.622	60.819	64.322	65.737
75.0	10.695	12.354	14.198	16.484	18.722	21.008	22.898	24.314	24.801
85.0	1.752	2.332	2.772	3.213	3.503	3.886	4.234	4.373	4.478
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	336.64	N.A.	30.00
0-30	612.84	N.A.	54.60
0-40	817.68	N.A.	72.90
0-60	1041.99	N.A.	92.90
0-80	1113.73	N.A.	99.30
0-90	1121.59	N.A.	100.00
10-90	1040.38	N.A.	92.80
20-40	481.05	N.A.	42.90
20-50	637.35	N.A.	56.80
40-70	273.88	N.A.	24.40
60-80	71.74	N.A.	6.40
70-80	22.16	N.A.	2.00
80-90	7.86	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	1121.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	81.21
10-20	255.43
20-30	276.20
30-40	204.84
40-50	156.31
50-60	68.00
60-70	49.57
70-80	22.16
80-90	7.86
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

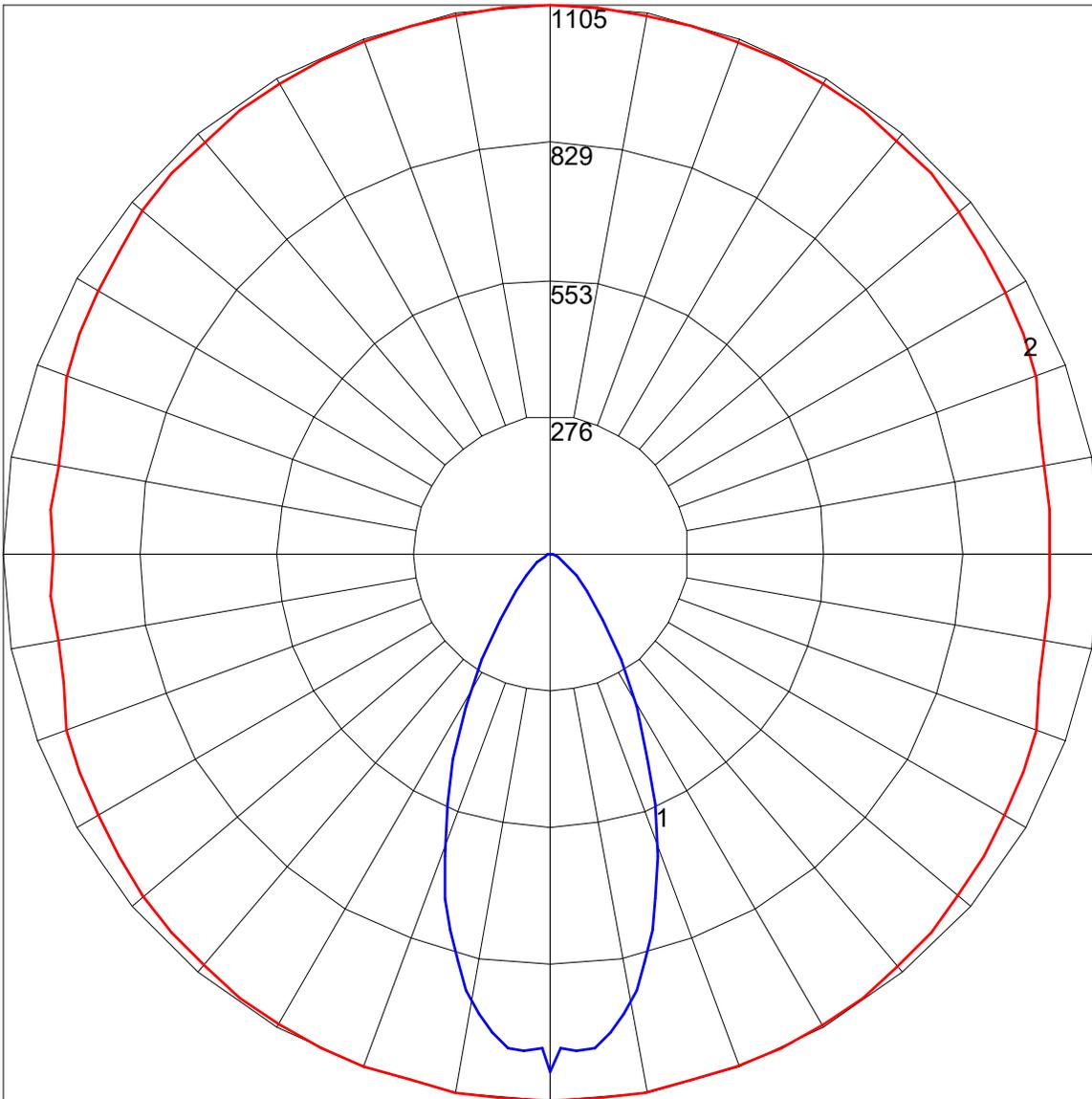
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90	
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81	
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73	
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66	
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60	
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55	
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51	
8	72	61	54	50	71	61	54	49	59	54	49	58	53	49	57	52	49	47	
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44	
10	65	54	47	43	64	53	47	43	52	47	43	52	46	43	51	46	42	41	

POLAR GRAPH



Maximum Candela = 1105.283 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.)