

IES Report

BoxRail® | 107 | 85° Asymmetric | 90 CRI | SO

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-359-A1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	37	38	39	40
Total Lumens, 4' rail length (1219mm)	881	908	927	945
Lumens per foot (305mm)	220	227	232	236
Input Power (W), 4' rail length (1219mm)	24.1	24.1	24.1	24.1
Watts per foot (305mm)	6.1	6.1	6.1	6.1
CRI	96	96	96	96

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_359_A1-BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L071704213 (SOURCE REPORT FOR REFERENCE)
 [TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
 [ISSUEDATE] 11/1/2017
 [MANUFAC] Vode Lighting
 [LUMCAT] 107-BX-48-Z-SO-359-A1-BL
 [LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board,
 [MORE] 85° black asymmetric lens, standard output
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	927
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	38
Total Luminaire Watts	24.08
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.06
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.04 ft
Luminous Width (90-270)	3.83 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	55476	46546	15100
55	44882	35273	10034
65	31230	24084	6936
75	12496	14037	5123
85	0	0	3204

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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	375.482	375.482	375.482	375.482	375.482	375.482	375.482	375.482	375.482	375.482
5	488.876	488.539	486.846	484.051	478.706	472.699	466.344	459.143	451.523	443.476
10	611.347	610.419	607.369	602.198	594.068	583.991	572.475	559.766	545.710	529.615
15	703.331	702.229	698.588	692.315	683.084	671.231	657.002	640.652	622.098	601.270
20	758.207	756.942	753.219	747.119	738.143	726.026	711.623	694.100	673.088	649.628
25	775.149	773.966	770.834	765.500	757.024	745.763	732.207	714.928	694.181	670.130
30	758.044	757.115	754.321	749.659	742.203	732.207	719.671	703.331	683.257	659.960
35	713.327	712.562	710.185	706.034	698.924	690.285	678.514	662.847	643.273	620.578
40	643.875	643.192	641.080	637.010	630.656	622.016	610.164	594.742	575.351	552.993
45	558.838	558.073	555.951	552.228	546.047	536.979	524.872	509.878	490.906	468.884
50	464.824	464.314	462.448	459.143	453.635	444.577	432.296	417.047	398.412	377.155
55	366.741	366.486	365.048	362.171	357.255	349.289	338.201	325.411	308.213	288.221
60	274.247	274.084	273.319	271.371	267.730	261.548	252.817	240.883	226.144	210.130
65	188.027	187.945	187.772	187.099	185.150	181.509	175.664	167.188	156.611	145.003
70	112.139	112.394	112.985	113.577	113.669	112.730	110.272	105.876	99.858	92.830
75	46.073	46.502	47.940	49.970	52.428	54.458	55.814	55.733	54.295	51.755
80	3.050	3.223	3.723	4.406	5.590	7.456	9.996	13.301	16.606	18.890
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles
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>	<u>95</u>
0	375.482	375.482	375.482	375.482	375.482	375.482	375.482	375.482	375.482	375.482
5	434.663	425.687	416.374	407.143	398.330	389.436	380.042	371.056	362.080	352.767
10	512.336	494.210	474.983	455.675	436.448	416.201	395.791	376.227	356.663	336.590
15	576.708	551.718	524.025	495.057	466.171	435.601	404.603	375.044	345.739	316.088
20	622.098	592.120	558.246	522.413	485.316	447.117	406.888	367.924	330.235	292.465
25	641.243	607.706	571.537	532.073	488.539	443.904	396.474	352.002	306.439	262.905
30	631.247	597.628	560.439	519.364	472.862	423.065	371.311	324.646	275.349	229.194
35	593.395	560.786	523.433	481.420	436.274	376.309	337.008	286.875	237.405	193.361
40	526.901	495.730	460.418	420.781	375.125	333.285	286.447	238.680	193.708	155.509
45	442.711	413.324	381.143	346.749	309.652	269.086	227.582	188.363	152.113	119.595
50	347.086	327.185	298.554	268.321	237.497	204.714	171.768	141.280	113.414	88.760
55	266.373	244.351	220.718	196.585	172.696	148.726	123.746	101.806	81.988	64.535
60	192.433	174.981	157.457	139.414	121.462	104.264	87.496	72.502	58.783	46.920
65	132.212	119.340	106.886	94.860	82.753	71.227	60.221	50.561	41.759	34.129
70	84.956	76.908	69.115	61.322	54.203	47.175	40.147	34.476	29.141	24.398
75	48.277	44.462	40.229	36.424	32.609	28.886	24.990	21.848	18.890	16.351
80	19.737	19.564	18.717	17.534	16.177	14.739	13.301	11.689	10.588	9.404
85	0.255	0.928	2.203	3.560	4.325	4.570	4.488	4.233	3.978	3.723
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles
Angles

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0	375.482	375.482	375.482	375.482	375.482	375.482	375.482	375.482	375.482	375.482
5	344.046	335.906	328.114	320.831	314.650	308.805	303.644	298.809	294.913	291.526
10	318.128	300.421	284.162	268.994	254.347	241.811	230.296	220.126	211.660	203.949
15	289.323	263.660	240.628	219.708	200.399	183.967	169.136	156.519	146.268	137.292
20	258.835	227.154	199.889	175.236	154.489	136.445	121.706	109.344	99.348	90.964
25	224.869	191.413	161.354	136.364	116.117	99.776	86.139	76.816	67.585	60.986
30	189.893	156.009	127.296	104.601	85.802	74.786	61.577	53.275	47.175	42.432
35	155.509	123.491	97.828	78.683	63.434	52.765	44.809	38.709	34.303	31.171

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CANDELA TABULATION - (Cont.)

40	122.553	95.033	75.970	59.038	47.348	39.382	33.711	29.305	26.428	24.225
45	92.993	74.450	55.896	44.635	36.169	30.580	26.591	23.715	21.593	19.992
50	70.890	53.356	42.269	34.384	28.631	24.562	21.767	19.819	18.380	17.360
55	50.908	40.321	32.691	27.275	23.297	20.665	18.635	17.279	16.259	15.504
60	38.026	31.079	25.837	22.022	19.482	17.534	16.177	15.249	14.566	14.056
65	28.285	23.715	20.329	17.952	16.177	14.902	13.974	13.382	12.964	12.536
70	20.747	17.870	15.759	14.229	13.127	12.362	11.863	11.434	11.098	10.924
75	14.147	12.617	11.434	10.669	10.078	9.659	9.313	9.149	8.976	8.813
80	8.384	7.711	7.283	7.028	6.691	6.691	6.518	6.518	6.436	6.355
85	3.641	3.641	3.560	3.560	3.478	3.223	3.050	2.713	2.621	2.458
90	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>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	375.482	375.482	375.482	375.482	375.482	375.482	375.482
5	288.986	287.212	285.773	285.263	285.263	284.417	283.907
10	197.605	192.688	188.792	186.170	184.814	183.029	182.437
15	130.009	124.338	119.677	116.464	114.679	112.904	112.312
20	84.364	79.958	75.806	73.093	71.400	70.043	69.625
25	55.988	52.255	49.378	47.348	46.073	45.227	44.890
30	38.872	36.251	34.303	33.028	32.099	31.508	31.334
35	28.631	26.938	25.663	24.817	24.225	23.797	23.715
40	22.695	21.430	20.584	19.992	19.655	19.309	19.309
45	18.972	18.125	17.534	17.197	16.942	16.687	16.606
50	16.606	16.004	15.586	15.331	15.076	14.994	14.902
55	14.994	14.657	14.311	14.147	13.974	13.974	13.892
60	13.637	13.382	13.209	13.127	12.964	12.964	12.872
65	12.362	12.107	11.944	11.863	11.863	11.771	11.689
70	10.761	10.669	10.506	10.506	10.414	10.333	10.333
75	8.813	8.639	8.639	8.639	8.639	8.639	8.639
80	6.436	6.355	6.355	6.355	6.273	6.273	6.273
85	2.377	2.377	2.377	2.285	2.285	2.377	2.377
90	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	142.45	N.A.	15.40
0-30	310.17	N.A.	33.50
0-40	506.85	N.A.	54.70
0-60	817.62	N.A.	88.20
0-80	923.11	N.A.	99.60
0-90	926.93	N.A.	100.00
10-90	891.22	N.A.	96.10
20-40	364.40	N.A.	39.30
20-50	544.36	N.A.	58.70
40-70	386.70	N.A.	41.70
60-80	105.48	N.A.	11.40
70-80	29.55	N.A.	3.20
80-90	3.82	N.A.	0.40
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	926.93	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	35.71
10-20	106.74
20-30	167.72
30-40	196.68
40-50	179.96
50-60	130.81
60-70	75.93
70-80	29.55
80-90	3.82
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

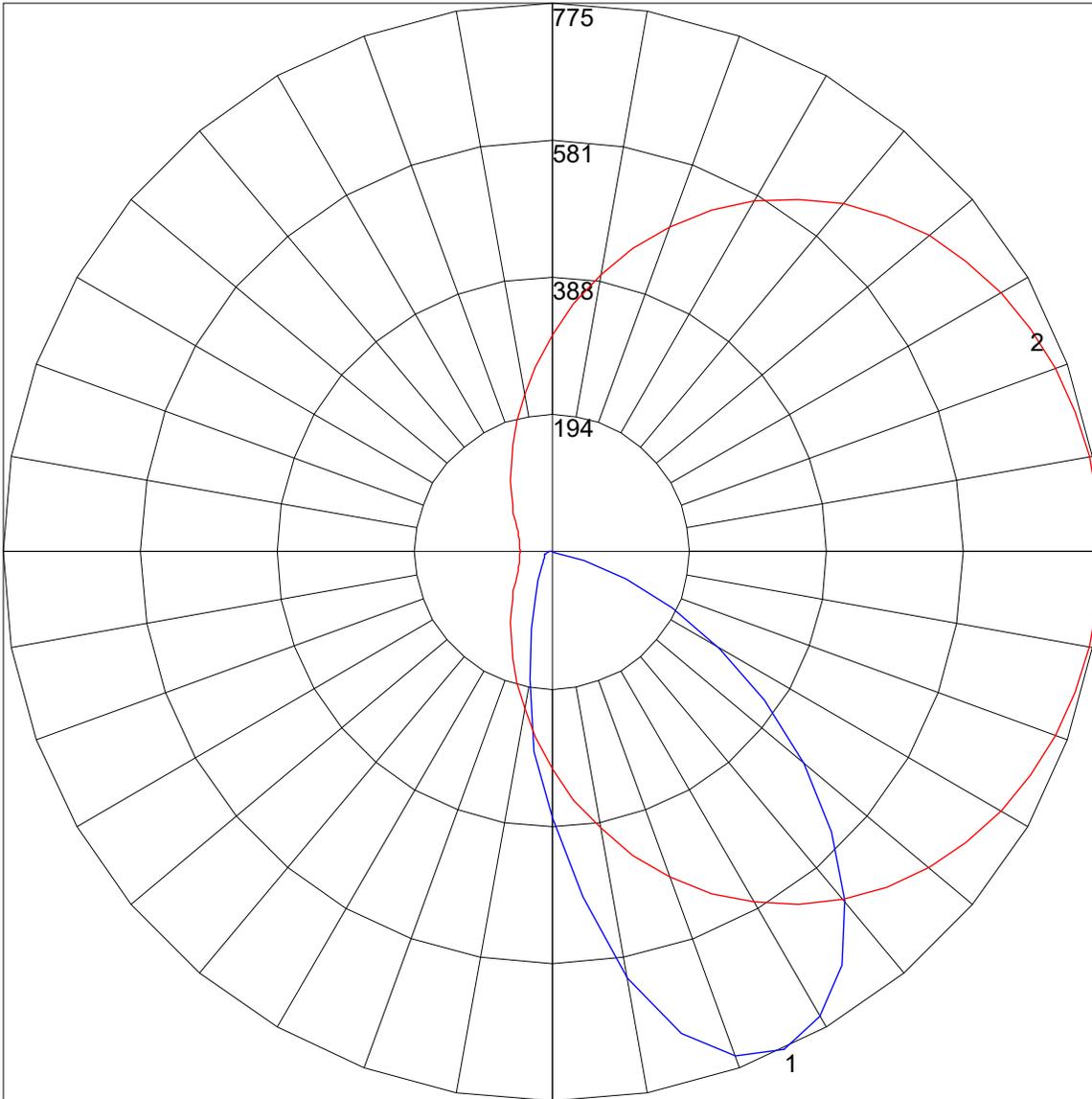
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100
1	110	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87	87
2	102	94	88	83	99	93	87	83	89	85	81	86	82	79	83	80	77	75	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65	65
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56	56
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	51	50	50
6	74	61	53	47	72	60	53	47	59	52	47	57	51	46	56	50	46	44	44
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39	39
8	64	51	43	38	62	51	43	38	49	42	37	48	42	37	47	41	37	35	35
9	60	47	39	34	58	47	39	34	45	39	34	44	38	34	43	38	33	32	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29	29

POLAR GRAPH



Maximum Candela = 775.149 Located At Horizontal Angle = 0, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)