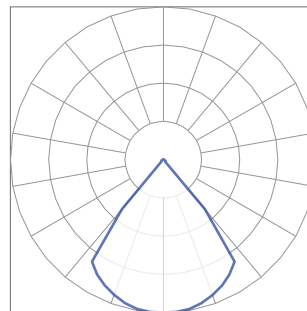


BoxRail® | 107

107-BX-X-4-48-X-X-X-X-X-Z-LO-359-BB-X-X-X

The performance data in black text is confirmed through third party testing (see the following Light Laboratory report for details). The performance data in grey text is calculated by Vode, for reference only.

Technical Support: (707) 996-9898



Details

Rail Type / Length	BoxRail, 48"
LED Type	Zipper Board
Lumen Output	Low Output
Color Temperature	3500K, 90+ CRI
Optics	Black Baffle

Performance Summary

	2700K	3000K	3500K	4000K
Color Temperature	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	25	26	26	26
Total Lumens, 4' rail (1219mm)	361	380	380	387
Lumens per foot (305mm)	90	95	95	97
Input Power (W), 4' rail (1219mm)	15.0	15.0	15.0	15.0
Watts per foot (305mm)	3.8	3.8	3.8	3.8
CRI	-	-	96	-

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IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_BX_LO_359_BB.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L071704207 (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-LO-359-BB
[LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board,
[MORE] black baffle, low output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	380
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	25
Total Luminaire Watts	14.95
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	0.64
Spacing Criterion (Diagonal)	0.84
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.08 ft
Luminous Width (90-270)	3.85 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	427	1218	512
55	469	329	237
65	476	199	108
75	491	228	57
85	509	398	67

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_BX_LO_359_BB.IES

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	440.079	440.079	440.079	440.079	440.079	440.079	440.079	440.079	440.079	440.079
5	440.512	440.023	439.222	437.886	436.193	434.178	432.062	429.797	427.574	425.391
10	436.234	434.877	431.343	426.238	420.123	413.916	407.607	400.748	393.587	386.962
15	427.089	424.208	416.879	407.480	396.851	384.887	372.988	360.769	348.299	337.013
20	414.339	409.535	398.142	383.806	366.930	349.442	331.316	314.777	300.293	288.033
25	399.942	392.511	376.436	355.771	332.352	308.575	288.838	271.223	253.414	234.906
30	382.026	372.290	351.324	325.048	295.657	271.646	249.711	224.196	197.599	175.282
35	358.397	345.397	319.413	286.890	257.586	231.479	201.557	169.034	148.303	124.379
40	185.783	187.374	194.147	198.681	197.640	178.627	149.068	123.022	92.065	60.603
45	8.639	8.894	9.277	9.930	15.183	27.484	42.687	49.909	34.195	24.669
50	7.961	7.854	7.497	7.094	6.691	6.523	6.859	8.109	10.251	12.005
55	7.706	7.497	6.926	6.268	5.590	4.978	4.554	4.447	4.723	5.401
60	7.497	7.135	6.457	5.656	4.850	4.192	3.708	3.386	3.198	3.177
65	5.758	5.569	5.080	4.615	4.044	3.601	3.198	2.881	2.606	2.412
70	4.615	4.488	4.172	3.789	3.432	3.070	2.774	2.479	2.244	1.989
75	3.641	3.534	3.305	3.070	2.836	2.606	2.351	2.116	1.907	1.693
80	2.922	2.861	2.647	2.458	2.264	2.076	1.907	1.739	1.566	1.397
85	1.270	1.290	1.290	1.249	1.249	1.229	1.209	1.142	1.081	0.994
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>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	440.079	440.079	440.079	440.079	440.079	440.079	440.079	440.079	440.079
5	423.274	421.347	419.613	418.149	416.899	415.844	415.186	414.742	414.594
10	380.756	375.085	369.832	365.109	361.253	358.015	355.689	354.373	353.863
15	326.930	318.418	311.176	304.786	299.788	295.764	292.929	291.337	290.807
20	276.813	265.399	254.388	244.372	236.135	229.168	224.068	220.912	219.876
25	216.633	199.696	186.313	176.215	168.229	161.838	156.901	153.790	152.837
30	158.447	142.989	126.709	111.272	97.721	86.940	79.152	74.429	72.797
35	98.481	73.731	54.483	41.631	34.619	28.647	25.622	24.179	23.715
40	38.877	28.290	22.848	20.288	18.656	17.406	16.473	15.881	15.667
45	20.181	17.850	15.861	14.142	12.832	11.796	11.031	10.526	10.373
50	12.367	11.602	10.440	9.338	8.364	7.624	7.053	6.650	6.523
55	6.207	6.543	6.309	5.783	5.233	4.723	4.299	4.003	3.896
60	3.346	3.560	3.601	3.453	3.198	2.902	2.626	2.392	2.285
65	2.264	2.203	2.183	2.137	1.969	1.780	1.586	1.438	1.311
70	1.800	1.632	1.525	1.418	1.290	1.188	1.015	0.867	0.765
75	1.484	1.311	1.188	1.035	0.913	0.806	0.678	0.530	0.423
80	1.209	1.081	0.933	0.785	0.658	0.571	0.464	0.337	0.255
85	0.913	0.785	0.678	0.571	0.490	0.403	0.316	0.235	0.168
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_BX_LO_359_BB.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	136.73	N.A.	36.00
0-30	251.33	N.A.	66.20
0-40	342.27	N.A.	90.20
0-60	373.77	N.A.	98.50
0-80	378.77	N.A.	99.80
0-90	379.65	N.A.	100.00
10-90	340.07	N.A.	89.60
20-40	205.53	N.A.	54.10
20-50	231.78	N.A.	61.10
40-70	34.52	N.A.	9.10
60-80	5.01	N.A.	1.30
70-80	1.98	N.A.	0.50
80-90	0.88	N.A.	0.20
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	379.65	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	39.58
10-20	97.15
20-30	114.60
30-40	90.94
40-50	26.25
50-60	5.25
60-70	3.02
70-80	1.98
80-90	0.88
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

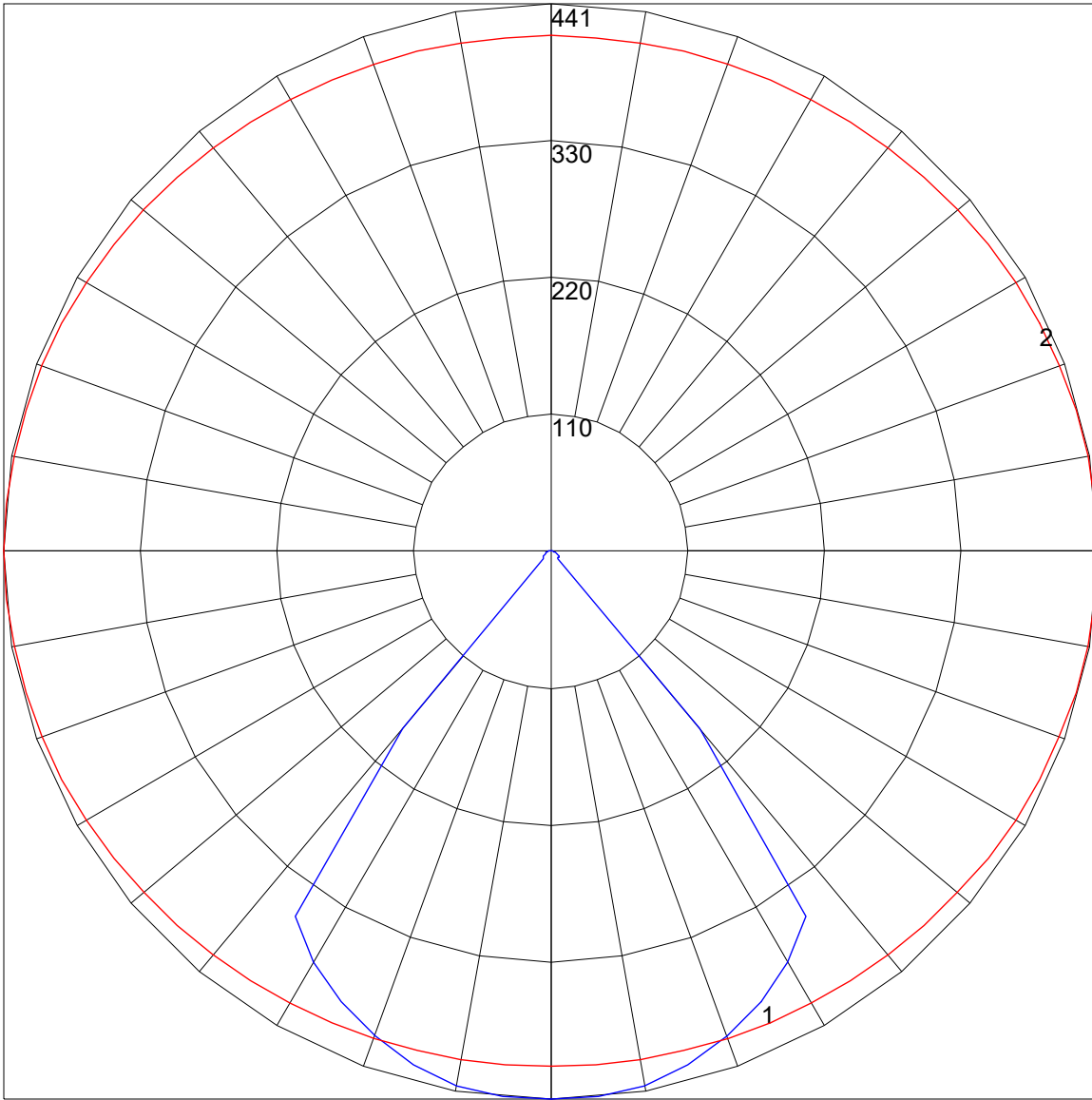
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_BX_LO_359_BB.IES

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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86
3	102	95	90	86	100	94	89	85	91	87	84	88	85	82	86	83	81	79
4	96	88	83	78	94	87	82	78	85	81	77	83	79	76	81	78	75	74
5	91	83	77	72	90	82	76	72	80	75	71	78	74	70	77	73	70	68
6	86	77	71	67	85	76	71	66	75	70	66	74	69	66	72	68	65	64
7	82	72	66	62	81	72	66	62	71	65	61	69	65	61	68	64	61	59
8	78	68	62	58	77	68	62	58	66	61	57	65	61	57	64	60	57	55
9	74	64	58	54	73	64	58	54	63	57	54	62	57	54	61	57	53	52
10	71	61	55	51	70	60	54	51	59	54	50	59	54	50	58	53	50	49

POLAR GRAPH



Maximum Candela = 440.512 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)