

IES Report

BoxRail® | 107 | 120° FlyWing™ | 90 CRI | SO

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-359-G2-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	96	99	101	103
Total Lumens, 4' rail length (1219mm)	2311	2384	2432	2481
Lumens per foot (305mm)	578	596	608	620
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_G2.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L071704204 (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-G2
 [LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board,
 [MORE] 120° flywing lens, standard output
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2432
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	24.09
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.58
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.52
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	36535	32042	20894
55	34621	30831	19850
65	26520	25597	19243
75	14819	17098	16967
85	2170	4429	9468

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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	789.582	789.582	789.582	789.582	789.582	789.582	789.582	789.582	789.582	789.582
5	795.059	794.927	794.753	794.376	793.825	793.234	792.469	791.714	790.775	789.888
10	812.675	812.461	811.481	810.002	807.932	805.137	802.128	798.609	794.713	790.653
15	834.013	833.381	831.606	828.760	824.660	819.570	813.481	806.443	798.742	790.439
20	848.497	847.783	845.447	841.643	836.176	829.229	820.763	810.727	799.201	786.624
25	853.669	852.771	849.935	845.366	838.889	830.413	819.917	807.758	793.111	776.975
30	847.987	846.977	843.713	838.675	831.433	821.865	810.084	796.028	779.045	759.186
35	829.015	827.954	824.701	819.488	812.083	802.087	789.460	774.139	755.463	733.819
40	794.039	793.111	790.225	785.359	778.331	768.631	756.014	740.173	720.691	697.568
45	739.918	739.194	736.828	732.839	726.913	718.151	706.880	691.682	672.578	648.914
50	665.132	664.663	663.184	660.511	656.237	649.709	640.060	626.423	608.767	585.602
55	568.742	568.619	568.109	567.008	564.805	560.572	553.707	542.783	527.289	506.491
60	451.095	451.391	452.237	453.084	453.339	452.074	448.474	441.058	429.206	412.478
65	321.004	321.514	323.075	325.278	327.481	329.134	329.174	326.380	319.984	309.825
70	201.246	201.838	203.531	206.234	209.457	212.680	215.128	216.026	214.373	210.477
75	109.854	110.364	111.761	113.914	116.759	119.891	122.900	125.307	126.500	126.745
80	43.115	43.411	44.421	46.033	48.236	51.071	54.040	56.998	59.588	61.996
85	5.416	5.508	5.590	5.722	5.926	6.222	6.773	7.670	9.017	11.057
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	789.582	789.582	789.582	789.582	789.582	789.582	789.582	789.582	789.582
5	789.082	788.154	787.267	786.461	785.818	785.318	784.849	784.635	784.553
10	786.542	782.473	778.709	774.986	771.977	769.264	767.448	766.255	765.745
15	781.626	772.783	764.143	755.840	748.721	742.672	738.184	735.389	734.410
20	772.823	758.503	744.192	730.136	717.856	707.227	699.139	694.304	692.570
25	758.554	739.112	718.957	698.751	681.095	665.213	653.310	645.772	643.273
30	737.042	712.898	687.653	661.745	638.489	617.865	602.075	592.202	588.897
35	707.900	679.952	649.842	618.803	591.059	566.498	548.077	536.469	532.573
40	669.701	638.449	605.166	570.690	539.988	513.397	493.405	481.042	476.850
45	619.772	587.377	552.605	517.334	486.499	459.316	439.406	427.258	423.147
50	557.053	525.341	492.221	458.806	430.226	406.082	387.406	376.564	372.749
55	480.910	452.411	423.320	395.281	371.953	352.430	337.906	329.011	326.084
60	391.813	369.536	348.065	328.165	311.814	298.350	288.313	282.336	280.265
65	296.606	282.887	270.269	259.009	250.114	242.699	237.283	233.978	232.917
70	205.010	199.675	194.800	190.526	187.476	185.069	183.284	181.927	181.417
75	126.623	126.286	126.072	125.950	126.031	126.072	126.154	126.031	125.776
80	64.036	65.637	66.994	67.973	68.779	69.411	69.880	70.176	70.217
85	13.974	17.105	19.696	21.593	22.573	23.123	23.419	23.593	23.633
90	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	298.00	N.A.	12.30
0-30	649.58	N.A.	26.70
0-40	1091.3	N.A.	44.90
0-60	1985.7	N.A.	81.60
0-80	2408.7	N.A.	99.00
0-90	2432.15	N.A.	100.00
10-90	2356.75	N.A.	96.90
20-40	793.31	N.A.	32.60
20-50	1265.34	N.A.	52.00
40-70	1184.47	N.A.	48.70
60-80	423.00	N.A.	17.40
70-80	132.93	N.A.	5.50
80-90	23.45	N.A.	1.00
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	2432.15	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	75.40
10-20	222.60
20-30	351.58
30-40	441.73
40-50	472.04
50-60	422.36
60-70	290.08
70-80	132.93
80-90	23.45
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

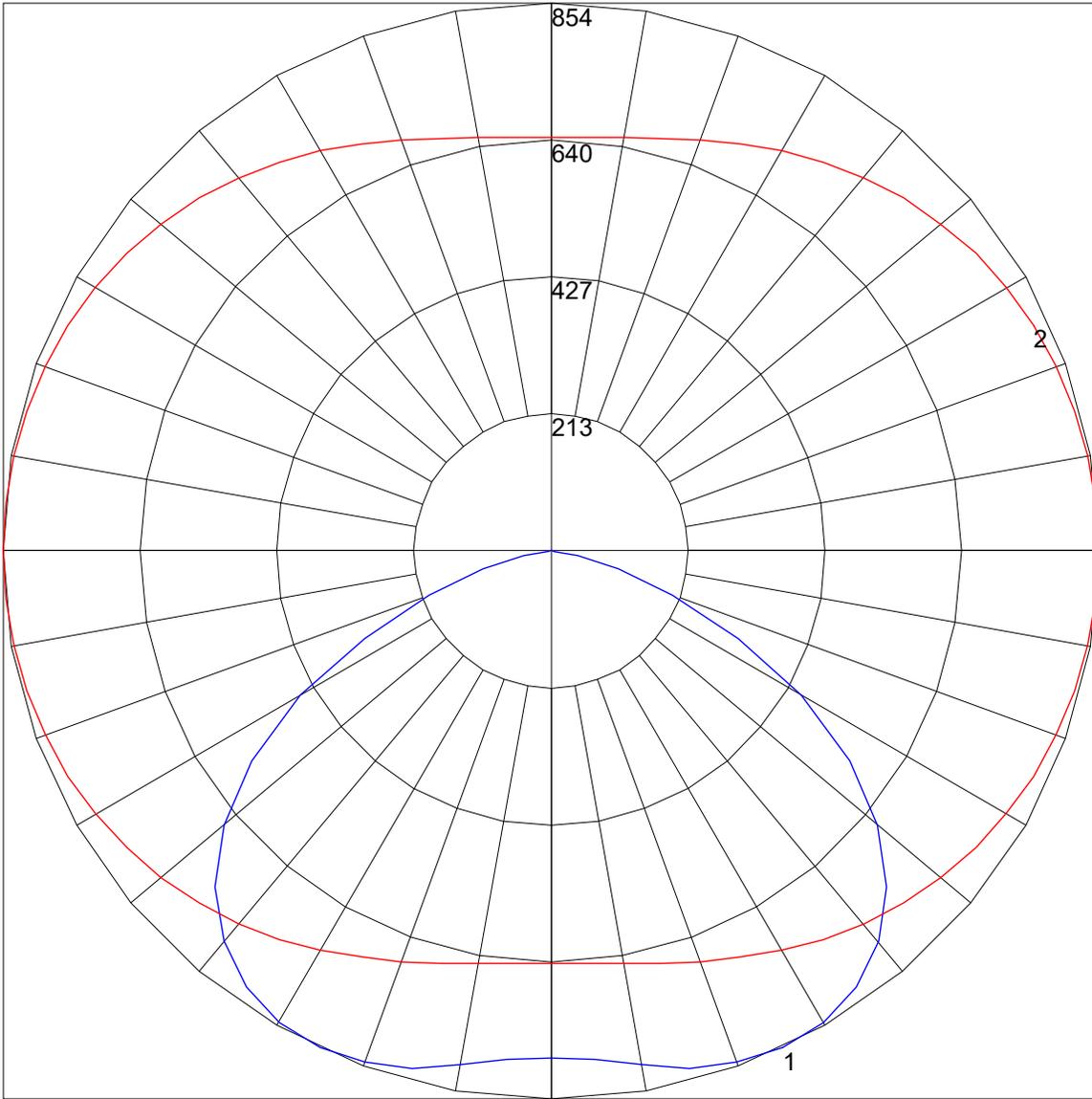
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	51	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 853.669 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.)