

IES Report

BoxRail® | 107 | 60° Symmetric | 90 CRI | LO

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-359-S2-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	45	46	47	48
Total Lumens, 4' rail length (1219mm)	659	679	693	707
Lumens per foot (305mm)	165	170	173	177
Input Power (W), 4' rail length (1219mm)	15.0	15.0	15.0	15.0
Watts per foot (305mm)	3.8	3.8	3.8	3.8
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_LO_359_S2.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L071704209 (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-S2-AL/WH
[LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board,
[MORE] 60° white symmetric lens, low output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	693
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	46
Total Luminaire Watts	14.95
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.84
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.00
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.02 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	11685	22563	42407
55	8444	14032	29431
65	7247	9944	20393
75	6605	7981	14310
85	0	3269	8172

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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	489.60	489.60	489.60	489.60	489.60	489.60	489.60	489.60	489.60	489.60
5	485.01	485.52	483.48	483.48	483.48	483.99	484.50	485.01	485.52	486.03
10	461.55	463.59	460.53	460.02	461.04	462.57	464.61	466.65	468.18	470.22
15	416.16	421.26	417.18	417.69	420.75	424.32	428.40	432.99	437.58	442.68
20	346.29	356.49	353.43	357.51	362.61	369.24	376.38	384.54	393.21	401.37
25	274.38	283.56	281.52	285.09	291.72	300.90	311.10	322.83	335.58	348.84
30	190.23	206.04	206.04	211.14	218.79	228.99	241.23	255.00	270.30	286.62
35	131.58	141.78	142.80	146.88	154.02	163.20	174.42	188.70	205.02	222.36
40	86.19	94.35	94.86	98.43	104.04	111.18	120.36	132.60	146.88	162.69
45	59.16	64.26	65.28	67.83	71.40	76.50	83.13	91.80	102.00	114.24
50	44.88	47.43	47.94	48.96	51.51	54.57	58.65	64.26	71.40	80.07
55	34.68	36.21	36.72	37.23	38.76	40.80	43.35	46.92	51.51	57.63
60	27.54	28.56	29.07	29.58	30.09	31.62	33.15	35.19	37.74	41.31
65	21.93	22.44	22.95	22.95	23.46	24.48	24.99	26.52	28.05	30.09
70	17.34	17.34	17.34	17.85	17.85	18.36	18.87	19.38	20.40	21.42
75	12.24	12.24	12.24	12.75	12.75	12.75	13.26	13.77	13.77	14.79
80	7.65	7.65	7.65	7.65	7.65	7.65	8.16	8.16	8.16	8.67
85	0.00	0.00	0.00	0.00	0.51	0.51	0.51	1.02	1.53	2.04
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	489.60	489.60	489.60	489.60	489.60	489.60	489.60	489.60	489.60
5	486.54	486.54	487.05	487.56	488.07	488.58	488.58	488.58	488.58
10	472.26	474.30	475.83	477.36	478.89	480.42	481.44	481.44	481.44
15	447.27	451.35	455.43	459.00	462.06	464.10	466.14	467.16	467.67
20	410.04	417.69	424.83	431.97	436.56	441.15	444.21	445.74	446.25
25	361.59	373.83	385.05	394.74	402.39	408.51	413.10	415.65	416.16
30	303.45	319.77	334.56	348.33	358.53	366.18	372.30	374.85	375.87
35	241.74	260.61	277.95	294.27	306.51	315.18	322.32	325.89	326.91
40	181.05	199.92	218.28	235.62	248.88	259.08	266.73	269.79	270.81
45	130.05	146.37	163.20	179.52	192.27	202.47	209.10	213.18	214.71
50	91.29	104.04	117.30	131.07	142.80	150.45	158.61	162.18	163.20
55	64.26	72.93	83.13	92.82	102.51	110.67	116.28	119.85	120.87
60	45.90	51.51	58.14	65.28	72.42	78.54	83.64	86.19	87.21
65	33.15	36.72	40.80	45.90	50.49	54.57	58.65	61.20	61.71
70	23.46	25.50	28.05	31.11	34.17	36.72	39.27	41.31	41.82
75	15.81	16.83	18.36	19.89	21.93	23.46	24.48	26.01	26.52
80	9.18	9.69	10.20	11.22	12.24	12.75	13.26	13.77	14.28
85	3.06	3.57	4.08	4.59	4.59	5.10	5.10	5.10	5.10
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	169.44	N.A.	24.40
0-30	328.37	N.A.	47.40
0-40	471.51	N.A.	68.00
0-60	634.76	N.A.	91.50
0-80	689.39	N.A.	99.40
0-90	693.36	N.A.	100.00
10-90	647.47	N.A.	93.40
20-40	302.07	N.A.	43.60
20-50	402.81	N.A.	58.10
40-70	199.69	N.A.	28.80
60-80	54.63	N.A.	7.90
70-80	18.19	N.A.	2.60
80-90	3.97	N.A.	0.60
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	693.36	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	45.89
10-20	123.55
20-30	158.93
30-40	143.14
40-50	100.74
50-60	62.51
60-70	36.44
70-80	18.19
80-90	3.97
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

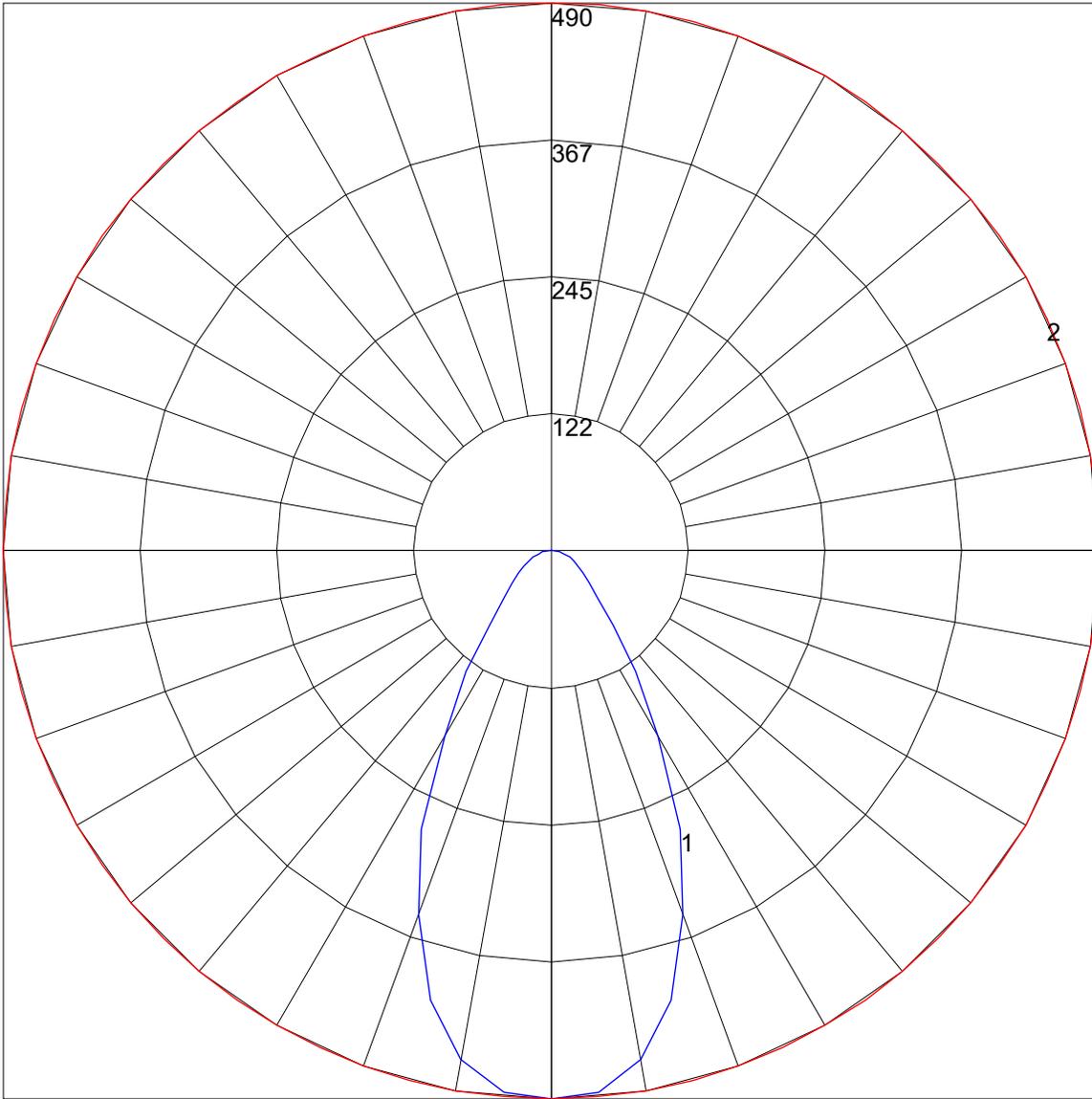
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63
5	84	74	66	61	82	73	66	60	71	65	60	69	63	59	67	62	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	63	55	50	73	62	55	50	60	54	50	59	53	49	58	53	49	47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37

POLAR GRAPH



Maximum Candela = 489.6 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)