

IES Report

BoxRail® | 107 | Diffuse | 90 CRI | LO

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-359-1-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	66	68	69	71
Total Lumens, 4' rail length (1219mm)	978	1009	1029	1050
Lumens per foot (305mm)	244	252	257	262
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_1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L101701701 (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-359-1
 [LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board,
 [MORE] diffuse lens, low output
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1029
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	69
Total Luminaire Watts	14.95
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.08
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.20
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.08 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	9679	11639	13501
55	7220	9270	11504
65	5398	7142	9509
75	4068	5356	7865
85	2215	3020	6645

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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	497.0	497.0	497.0	497.0	497.0	497.0	497.0	497.0	497.0	497.0
5	493.0	493.0	493.0	493.0	493.5	493.5	493.5	493.5	493.5	493.5
10	480.5	480.5	480.5	481.0	481.0	481.5	481.5	482.0	482.5	483.0
15	458.5	458.5	459.0	459.5	460.0	461.0	461.5	462.5	463.5	465.0
20	427.5	428.0	428.5	429.5	430.5	432.0	433.5	435.5	437.5	439.0
25	388.5	388.5	389.5	391.0	393.0	395.0	397.5	400.5	403.5	407.0
30	342.5	343.0	344.0	346.0	348.5	351.5	355.5	359.5	363.5	368.0
35	293.0	293.5	295.0	297.5	300.5	304.5	309.0	314.0	319.5	325.0
40	242.5	243.0	245.0	247.5	251.0	256.0	261.0	267.0	273.5	279.5
45	195.0	195.5	197.5	200.0	204.0	208.5	214.0	220.5	227.5	234.5
50	153.5	154.0	155.5	158.0	161.5	166.0	171.0	177.0	184.0	191.0
55	118.0	118.0	119.5	121.5	125.0	128.5	133.5	139.0	145.0	151.5
60	88.5	89.0	90.0	91.5	94.0	97.5	101.0	105.5	111.0	116.5
65	65.0	65.0	66.0	67.0	69.0	71.5	74.0	77.5	82.0	86.0
70	45.5	46.0	46.0	47.0	48.0	50.0	52.0	54.5	57.5	60.5
75	30.0	30.0	30.5	31.0	31.5	32.5	33.5	35.5	37.5	39.5
80	17.0	17.0	17.0	17.5	17.5	18.0	18.5	19.5	20.5	22.0
85	5.5	5.5	5.5	5.5	6.0	6.0	6.5	6.5	7.0	7.5
90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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>
0	497.0	497.0	497.0	497.0	497.0	497.0	497.0	497.0	497.0
5	494.0	494.0	494.0	494.0	494.0	494.0	494.5	494.5	494.5
10	483.5	484.0	484.0	484.5	485.0	485.0	485.5	485.5	485.5
15	466.0	467.0	468.0	468.5	469.5	470.0	470.5	470.5	471.0
20	441.5	443.0	445.0	446.5	447.5	448.5	449.5	450.0	450.0
25	410.0	412.5	415.5	417.5	420.0	421.5	422.5	423.5	423.5
30	372.5	376.5	380.0	383.5	386.5	388.5	390.0	391.0	391.5
35	330.5	335.5	340.0	344.5	348.0	351.0	353.0	354.5	355.0
40	286.0	292.0	297.5	302.5	306.5	310.0	312.5	314.0	314.5
45	241.5	248.0	253.5	259.0	263.5	267.0	269.5	271.5	272.0
50	198.0	205.0	211.0	216.5	220.5	224.5	227.0	228.5	229.0
55	158.0	164.5	170.5	175.5	180.0	183.5	186.0	187.5	188.0
60	122.5	128.0	133.5	138.5	142.5	145.5	147.5	149.0	149.5
65	91.0	96.0	100.5	105.0	108.5	111.5	113.0	114.0	114.5
70	64.5	68.5	72.0	75.5	78.5	81.0	82.5	83.5	84.0
75	42.0	45.0	48.0	50.5	53.0	55.0	56.5	57.5	58.0
80	23.5	25.0	27.0	29.0	31.0	32.5	34.0	35.0	35.0
85	8.5	9.0	10.0	11.5	13.0	14.0	15.0	16.0	16.5
90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	177.49	N.A.	17.20
0-30	364.10	N.A.	35.40
0-40	566.67	N.A.	55.00
0-60	884.60	N.A.	85.90
0-80	1017.92	N.A.	98.90
0-90	1029.39	N.A.	100.00
10-90	982.61	N.A.	95.50
20-40	389.18	N.A.	37.80
20-50	570.02	N.A.	55.40
40-70	406.28	N.A.	39.50
60-80	133.32	N.A.	13.00
70-80	44.97	N.A.	4.40
80-90	11.47	N.A.	1.10
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	1029.39	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	46.78
10-20	130.71
20-30	186.61
30-40	202.57
40-50	180.83
50-60	137.09
60-70	88.35
70-80	44.97
80-90	11.47
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

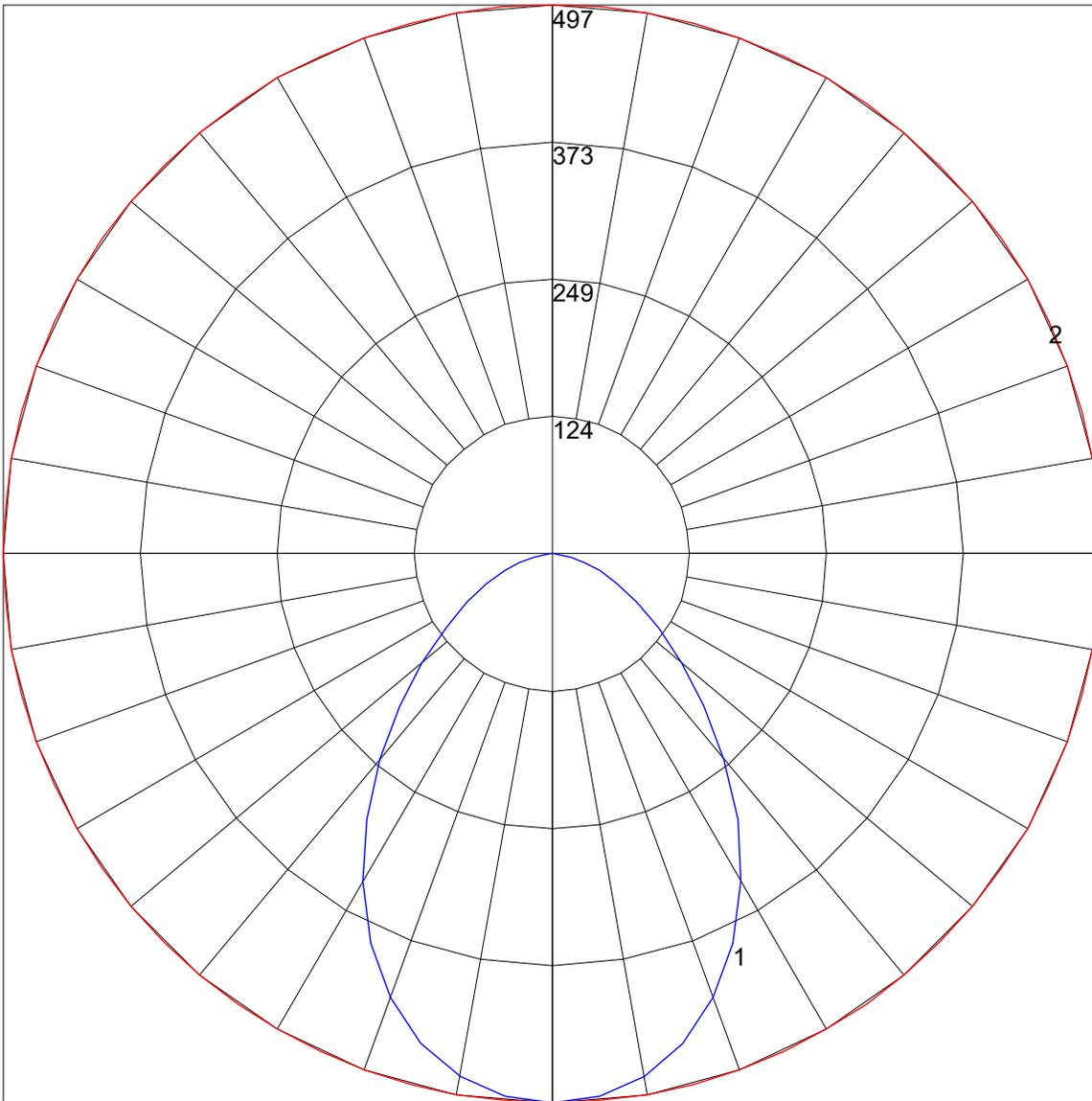
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	89	87
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	49	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	56	44	37	32	43	36	32	42	36	31	41	35	31	30

POLAR GRAPH



Maximum Candela = 497 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.)