

IES Report

BoxRail® | 107 | White Baffle | 90 CRI | HO

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-359-WB-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	60	62	63	64
Total Lumens, 4' rail length (1219mm)	2926	3018	3080	3111
Lumens per foot (305mm)	731	755	770	778
Input Power (W), 4' rail length (1219mm)	49.1	49.1	49.1	49.1
Watts per foot (305mm)	12.3	12.3	12.3	12.3
CRI	94	94	94	94

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_HO_359_WB.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L121911507 (SOURCE REPORT FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB
[ISSUE DATE] 12/23/2019
[MANUFAC] Vode Lighting
[LUMCAT] 107-BX-48-Z-HO-359-WB-AL
[LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board, white baffle,
[MORE] high output, clear anodized finish
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3079
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	49.06
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	0.80
Spacing Criterion (Diagonal)	1.00
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.07 ft
Luminous Width (90-270)	3.84 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16447	29777	22575
55	14975	19216	17891
65	15828	14209	14569
75	8223	8811	10279
85	5233	4361	4361

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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	2327.5	2327.5	2327.5	2327.5	2327.5	2327.5	2327.5	2327.5	2327.5	2327.5
5	2321.8	2319.9	2318.0	2314.2	2312.3	2306.6	2300.9	2295.2	2291.4	2287.6
10	2299.0	2297.1	2285.7	2274.3	2262.9	2255.3	2242.0	2224.9	2207.8	2185.0
15	2259.1	2251.5	2234.4	2217.3	2196.4	2164.1	2122.3	2080.5	2036.8	1995.0
20	2196.4	2183.1	2162.2	2133.7	2084.3	2021.6	1958.9	1898.1	1843.0	1799.3
25	2107.1	2088.1	2061.5	2006.4	1930.4	1850.6	1776.5	1719.5	1660.6	1586.5
30	2006.4	1985.5	1941.8	1858.2	1761.3	1670.1	1603.6	1504.8	1402.2	1307.2
35	1875.3	1850.6	1786.0	1685.3	1582.7	1501.0	1381.3	1255.9	1147.6	1056.4
40	1238.8	1242.6	1254.0	1271.1	1288.2	1221.7	1119.1	1012.7	875.9	741.0
45	290.7	304.0	334.4	374.3	440.8	552.9	642.2	646.0	577.6	526.3
50	224.2	231.8	245.1	260.3	279.3	304.0	334.4	362.9	378.1	385.7
55	214.7	218.5	226.1	233.7	245.1	258.4	271.7	273.6	273.6	275.5
60	199.5	201.4	199.5	199.5	199.5	203.3	205.2	205.2	205.2	205.2
65	167.2	165.3	159.6	153.9	150.1	148.2	148.2	148.2	148.2	150.1
70	104.5	102.6	102.6	98.8	96.9	95.0	95.0	96.9	96.9	98.8
75	53.2	53.2	53.2	51.3	51.3	51.3	53.2	53.2	55.1	57.0
80	26.6	26.6	24.7	24.7	24.7	24.7	24.7	24.7	24.7	26.6
85	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	9.5	9.5
90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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	2327.5	2327.5	2327.5	2327.5	2327.5	2327.5	2327.5	2327.5	2327.5
5	2283.8	2281.9	2280.0	2278.1	2274.3	2274.3	2272.4	2270.5	2270.5
10	2164.1	2145.1	2126.1	2109.0	2095.7	2084.3	2076.7	2071.0	2069.1
15	1958.9	1924.7	1896.2	1871.5	1854.4	1839.2	1829.7	1825.9	1824.0
20	1761.3	1723.3	1681.5	1637.8	1603.6	1573.2	1552.3	1539.0	1535.2
25	1508.6	1438.3	1377.5	1324.3	1286.3	1255.9	1235.0	1223.6	1219.8
30	1227.4	1166.6	1102.0	1031.7	970.9	923.4	891.1	870.2	864.5
35	944.3	841.7	756.2	693.5	653.6	628.9	613.7	604.2	600.4
40	644.1	589.0	556.7	535.8	518.7	505.4	497.8	492.1	490.2
45	494.0	469.3	450.3	433.2	421.8	412.3	404.7	400.9	399.0
50	381.9	368.6	357.2	345.8	338.2	330.6	326.8	323.0	321.1
55	279.3	279.3	275.5	271.7	267.9	262.2	260.3	258.4	256.5
60	207.1	207.1	207.1	207.1	207.1	205.2	203.3	203.3	201.4
65	150.1	152.0	153.9	153.9	153.9	155.8	153.9	153.9	153.9
70	100.7	102.6	104.5	106.4	106.4	108.3	108.3	108.3	108.3
75	58.9	60.8	62.7	64.6	66.5	66.5	68.4	68.4	66.5
80	26.6	28.5	30.4	30.4	32.3	32.3	34.2	34.2	32.3
85	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
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	782.13	N.A.	25.40
0-30	1520.65	N.A.	49.40
0-40	2216.36	N.A.	72.00
0-60	2849.3	N.A.	92.50
0-80	3065.97	N.A.	99.60
0-90	3079.2	N.A.	100.00
10-90	2863.89	N.A.	93.00
20-40	1434.22	N.A.	46.60
20-50	1833.34	N.A.	59.50
40-70	784.44	N.A.	25.50
60-80	216.67	N.A.	7.00
70-80	65.17	N.A.	2.10
80-90	13.23	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	3079.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	215.31
10-20	566.82
20-30	738.51
30-40	695.71
40-50	399.12
50-60	233.82
60-70	151.50
70-80	65.17
80-90	13.23
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

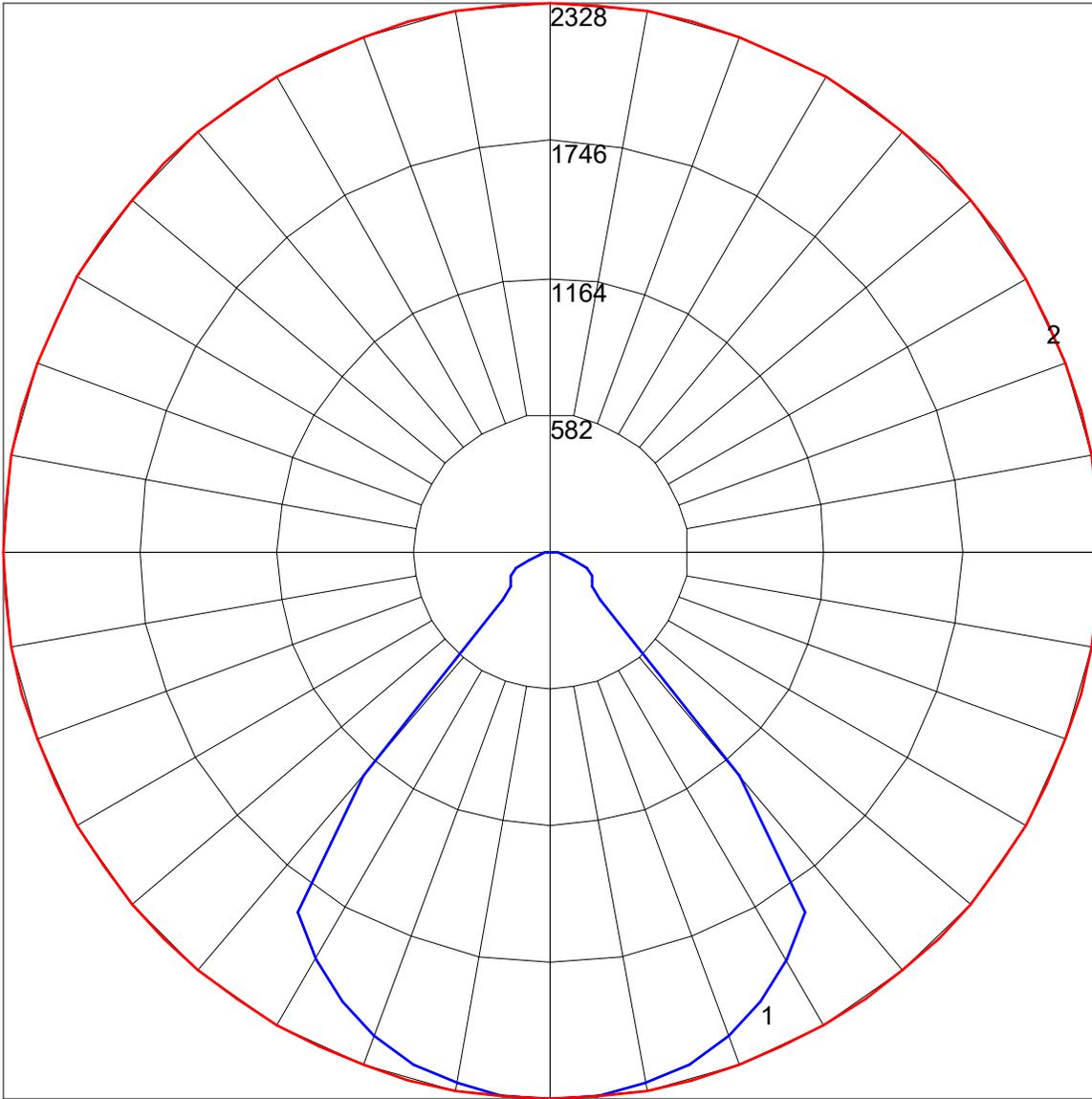
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39

POLAR GRAPH



Maximum Candela = 2327.5 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)