

IES Report

BoxRail® | 107 | Diffuse | 80 CRI | HO

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-35-1-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	88	91	92	92
Total Lumens, 4' rail length (1219mm)	4301	4435	4480	4480
Lumens per foot (305mm)	1075	1109	1120	1120
Input Power (W), 4' rail length (1219mm)	49.2	49.2	49.2	49.2
Watts per foot (305mm)	12.4	12.4	12.4	12.4
CRI	85	85	85	85

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_35_1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L091700101 (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-HO-35-1
 [LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board,
 [MORE] diffuse lens, high output
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4480
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	49.22
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)	3.85 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	41842	50286	58542
55	31228	40018	49849
65	23389	30923	41283
75	17942	23324	33833
85	9895	13701	28924

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	2162.2	2162.2	2162.2	2162.2	2162.2	2162.2	2162.2	2162.2	2162.2	2162.2
5	2145.1	2145.1	2145.1	2145.1	2145.1	2145.1	2145.1	2147.0	2147.0	2147.0
10	2090.0	2090.0	2090.0	2090.0	2091.9	2093.8	2095.7	2097.6	2099.5	2101.4
15	1995.0	1995.0	1996.9	1998.8	2002.6	2004.5	2008.3	2014.0	2017.8	2023.5
20	1860.1	1860.1	1863.9	1867.7	1873.4	1879.1	1886.7	1894.3	1903.8	1911.4
25	1687.2	1689.1	1692.9	1698.6	1708.1	1717.6	1729.0	1742.3	1755.6	1768.9
30	1487.7	1489.6	1495.3	1502.9	1514.3	1529.5	1544.7	1563.7	1582.7	1601.7
35	1273.0	1274.9	1280.6	1292.0	1305.3	1322.4	1343.3	1366.1	1388.9	1413.6
40	1052.6	1054.5	1062.1	1073.5	1090.6	1111.5	1134.3	1160.9	1189.4	1216.0
45	847.4	849.3	856.9	868.3	885.4	906.3	931.0	957.6	988.0	1018.4
50	665.0	666.9	674.5	684.0	701.1	720.1	742.9	769.5	799.9	830.3
55	513.0	513.0	518.7	528.2	541.5	558.6	579.5	604.2	630.8	657.4
60	385.7	385.7	391.4	399.0	408.5	423.7	438.9	459.8	482.6	507.3
65	283.1	283.1	286.9	292.6	300.2	309.7	323.0	338.2	355.3	374.3
70	199.5	199.5	201.4	205.2	210.9	216.6	226.1	237.5	248.9	264.1
75	133.0	133.0	133.0	134.9	138.7	142.5	148.2	153.9	161.5	172.9
80	74.1	74.1	76.0	76.0	77.9	79.8	81.7	85.5	89.3	95.0
85	24.7	24.7	24.7	24.7	26.6	26.6	28.5	30.4	32.3	34.2
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**

	50	55	60	65	70	75	80	85	90
0	2162.2	2162.2	2162.2	2162.2	2162.2	2162.2	2162.2	2162.2	2162.2
5	2147.0	2148.9	2148.9	2148.9	2148.9	2148.9	2148.9	2150.8	2148.9
10	2103.3	2105.2	2107.1	2107.1	2109.0	2110.9	2110.9	2112.8	2112.8
15	2027.3	2031.1	2036.8	2038.7	2042.5	2046.3	2048.2	2048.2	2048.2
20	1920.9	1928.5	1936.1	1941.8	1947.5	1953.2	1957.0	1958.9	1958.9
25	1782.2	1795.5	1806.9	1818.3	1827.8	1835.4	1839.2	1843.0	1844.9
30	1620.7	1637.8	1654.9	1670.1	1681.5	1692.9	1700.5	1704.3	1706.2
35	1438.3	1461.1	1482.0	1501.0	1516.2	1529.5	1539.0	1544.7	1546.6
40	1244.5	1271.1	1295.8	1316.7	1335.7	1350.9	1362.3	1368.0	1369.9
45	1048.8	1079.2	1103.9	1128.6	1147.6	1164.7	1176.1	1183.7	1185.6
50	862.6	891.1	919.6	942.4	961.4	978.5	989.9	995.6	999.4
55	687.8	716.3	742.9	765.7	784.7	799.9	809.4	817.0	818.9
60	532.0	556.7	581.4	604.2	621.3	634.6	644.1	649.8	651.7
65	397.1	418.0	438.9	457.9	473.1	484.5	492.1	497.8	499.7
70	279.3	296.4	313.5	328.7	342.0	353.4	359.1	364.8	364.8
75	182.4	195.7	207.1	220.4	229.9	239.4	247.0	248.9	250.8
80	102.6	110.2	117.8	127.3	134.9	142.5	148.2	152.0	152.0
85	36.1	39.9	43.7	49.4	55.1	60.8	66.5	70.3	72.2
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	772.22	N.A.	17.20
0-30	1584.07	N.A.	35.40
0-40	2465.45	N.A.	55.00
0-60	3848.56	N.A.	85.90
0-80	4429.35	N.A.	98.90
0-90	4479.7	N.A.	100.00
10-90	4276.21	N.A.	95.50
20-40	1693.23	N.A.	37.80
20-50	2479.85	N.A.	55.40
40-70	1767.88	N.A.	39.50
60-80	580.79	N.A.	13.00
70-80	196.01	N.A.	4.40
80-90	50.35	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	4479.7	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	203.49
10-20	568.74
20-30	811.85
30-40	881.38
40-50	786.62
50-60	596.49
60-70	384.77
70-80	196.01
80-90	50.35
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

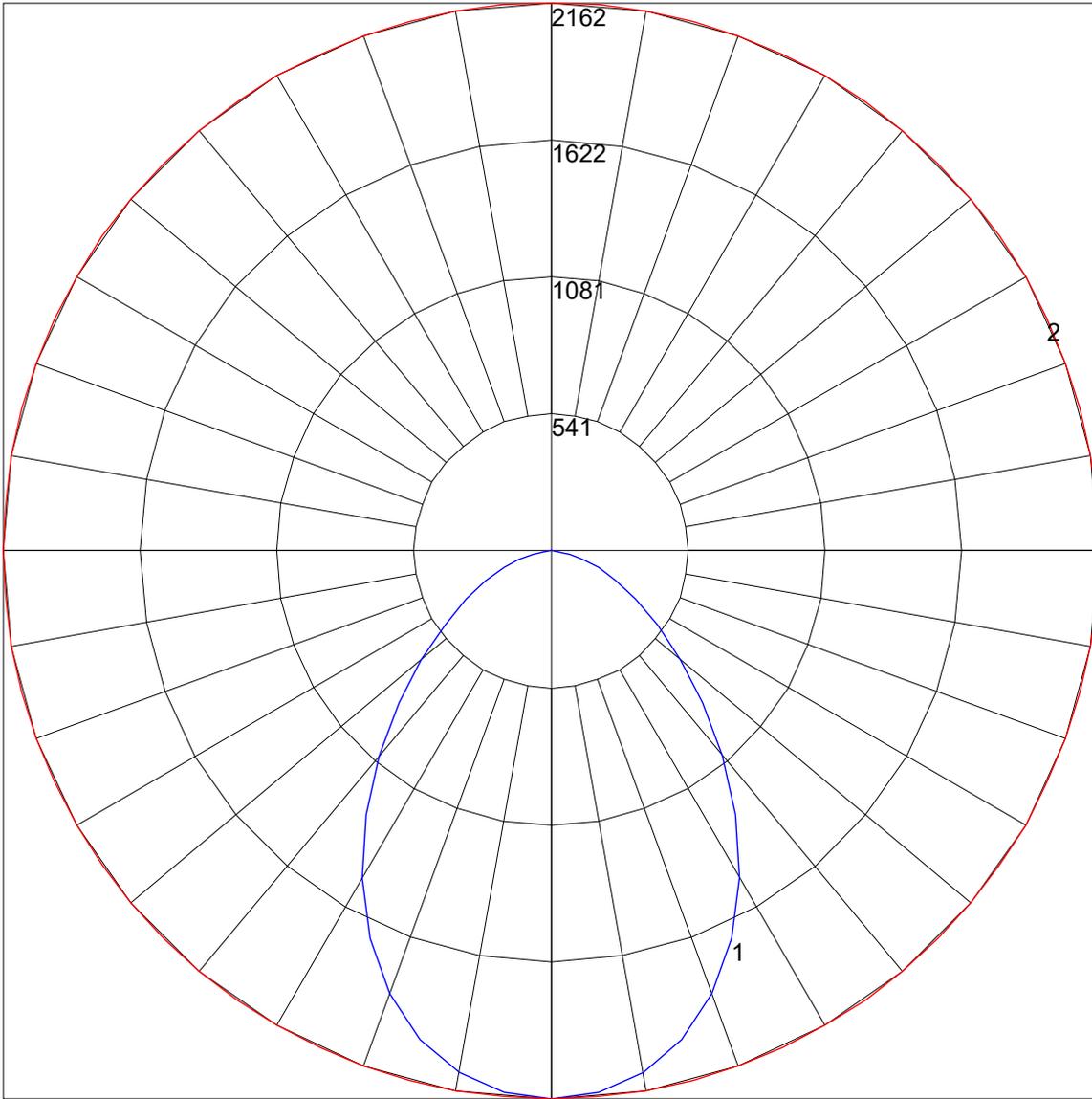
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	88	86	
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	52	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	48	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	36	32	43	36	32	42	36	31	41	35	31	30	

POLAR GRAPH



Maximum Candela = 2162.2 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.)