

IES Report

BoxRail® | 207 | White Baffle, down | 90 CRI | HO

207-BX-XX-4-48-XX-XX-XX-X-X-Z-HO-359-WB-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	63	65	66	67
Total Lumens, 4' rail length (1219mm)	3218	3320	3387	3421
Lumens per foot (305mm)	805	830	847	855
Input Power (W), 4' rail length (1219mm)	51.6	51.6	51.6	51.6
Watts per foot (305mm)	12.9	12.9	12.9	12.9
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_207_BX_HO_359_WB.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L022010909 (SOURCE REPORT FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB
[ISSUE DATE] 12/23/2019
[MANUFAC] Vode Lighting
[LUMCAT] 207-BX-48-Z-HO-359-WB
[LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board,
[MORE] white baffle w/clear lens down, high output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3387
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	51.57
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	0.78
Spacing Criterion (Diagonal)	0.98
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.08 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.09 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7479	15703	22431
55	5851	9024	18227
65	4250	5073	14413
75	1281	1960	9559
85	529	570	3496

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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	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3
5	2561.2	2551.7	2542.2	2532.7	2525.1	2515.6	2508.0	2500.4	2494.7	2489.0
10	2530.8	2511.8	2492.8	2475.7	2458.6	2443.4	2428.2	2395.9	2365.5	2338.9
15	2483.3	2456.7	2430.1	2405.4	2376.9	2323.7	2274.3	2228.7	2185.0	2145.1
20	2407.3	2371.2	2338.9	2299.0	2230.6	2166.0	2103.3	2042.5	1989.3	1934.2
25	2310.4	2268.6	2228.7	2150.8	2069.1	1989.3	1909.5	1837.3	1757.5	1683.4
30	2202.1	2152.7	2091.9	1991.2	1894.3	1799.3	1700.5	1599.8	1504.8	1409.8
35	2040.6	1983.6	1898.1	1789.8	1681.5	1577.0	1470.6	1347.1	1235.0	1124.8
40	1208.4	1176.1	1140.0	1134.3	1168.5	1227.4	1166.6	1048.8	944.3	834.1
45	334.4	376.2	456.0	524.4	541.5	545.3	665.0	655.5	638.4	598.5
50	288.8	296.4	311.6	328.7	349.6	383.8	410.4	437.0	446.5	442.7
55	260.3	264.1	271.7	283.1	292.6	307.8	321.1	324.9	328.7	332.5
60	233.7	233.7	231.8	228.0	228.0	233.7	235.6	239.4	243.2	247.0
65	182.4	178.6	167.2	163.4	161.5	161.5	163.4	165.3	169.1	174.8
70	106.4	102.6	98.8	98.8	100.7	100.7	100.7	102.6	106.4	112.1
75	51.3	49.4	55.1	53.2	53.2	53.2	53.2	53.2	57.0	60.8
80	32.3	34.2	32.3	32.3	30.4	30.4	28.5	28.5	28.5	28.5
85	19.0	20.9	20.9	20.9	20.9	19.0	19.0	17.1	17.1	15.2
90	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6

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	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3
5	2483.3	2477.6	2473.8	2471.9	2468.1	2468.1	2466.2	2466.2	2468.1
10	2314.2	2293.3	2274.3	2257.2	2243.9	2232.5	2224.9	2221.1	2223.0
15	2105.2	2071.0	2038.7	2014.0	1995.0	1977.9	1968.4	1962.7	1964.6
20	1879.1	1824.0	1778.4	1736.6	1704.3	1679.6	1662.5	1651.1	1653.0
25	1616.9	1550.4	1487.7	1436.4	1392.7	1360.4	1337.6	1318.6	1318.6
30	1324.3	1248.3	1178.0	1115.3	1064.0	1020.3	988.0	969.0	967.1
35	1022.2	932.9	866.4	813.2	771.4	742.9	722.0	706.8	701.1
40	754.3	674.5	634.6	617.5	606.1	598.5	590.9	583.3	581.4
45	570.0	549.1	532.0	516.8	505.4	497.8	490.2	484.5	482.6
50	444.6	437.0	427.5	419.9	412.3	404.7	400.9	397.1	395.2
55	336.3	334.4	336.3	334.4	330.6	326.8	323.0	321.1	321.1
60	250.8	252.7	254.6	256.5	256.5	254.6	252.7	250.8	250.8
65	178.6	182.4	186.2	188.1	188.1	190.0	188.1	188.1	190.0
70	115.9	123.5	129.2	127.3	129.2	133.0	133.0	136.8	144.4
75	64.6	68.4	74.1	76.0	76.0	79.8	79.8	79.8	79.8
80	28.5	30.4	32.3	34.2	36.1	36.1	38.0	38.0	38.0
85	15.2	15.2	13.3	13.3	11.4	11.4	11.4	11.4	11.4
90	5.7	5.7	5.7	3.8	3.8	3.8	3.8	3.8	1.9

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	844.44	N.A.	24.90
0-30	1639.36	N.A.	48.40
0-40	2388.55	N.A.	70.50
0-60	3119.33	N.A.	92.10
0-80	3368.23	N.A.	99.40
0-90	3387.44	N.A.	100.00
10-90	3153.27	N.A.	93.10
20-40	1544.12	N.A.	45.60
20-50	1991.76	N.A.	58.80
40-70	907.00	N.A.	26.80
60-80	248.90	N.A.	7.30
70-80	72.68	N.A.	2.10
80-90	19.21	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	3387.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	234.17
10-20	610.27
20-30	794.93
30-40	749.19
40-50	447.65
50-60	283.13
60-70	176.23
70-80	72.68
80-90	19.21
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

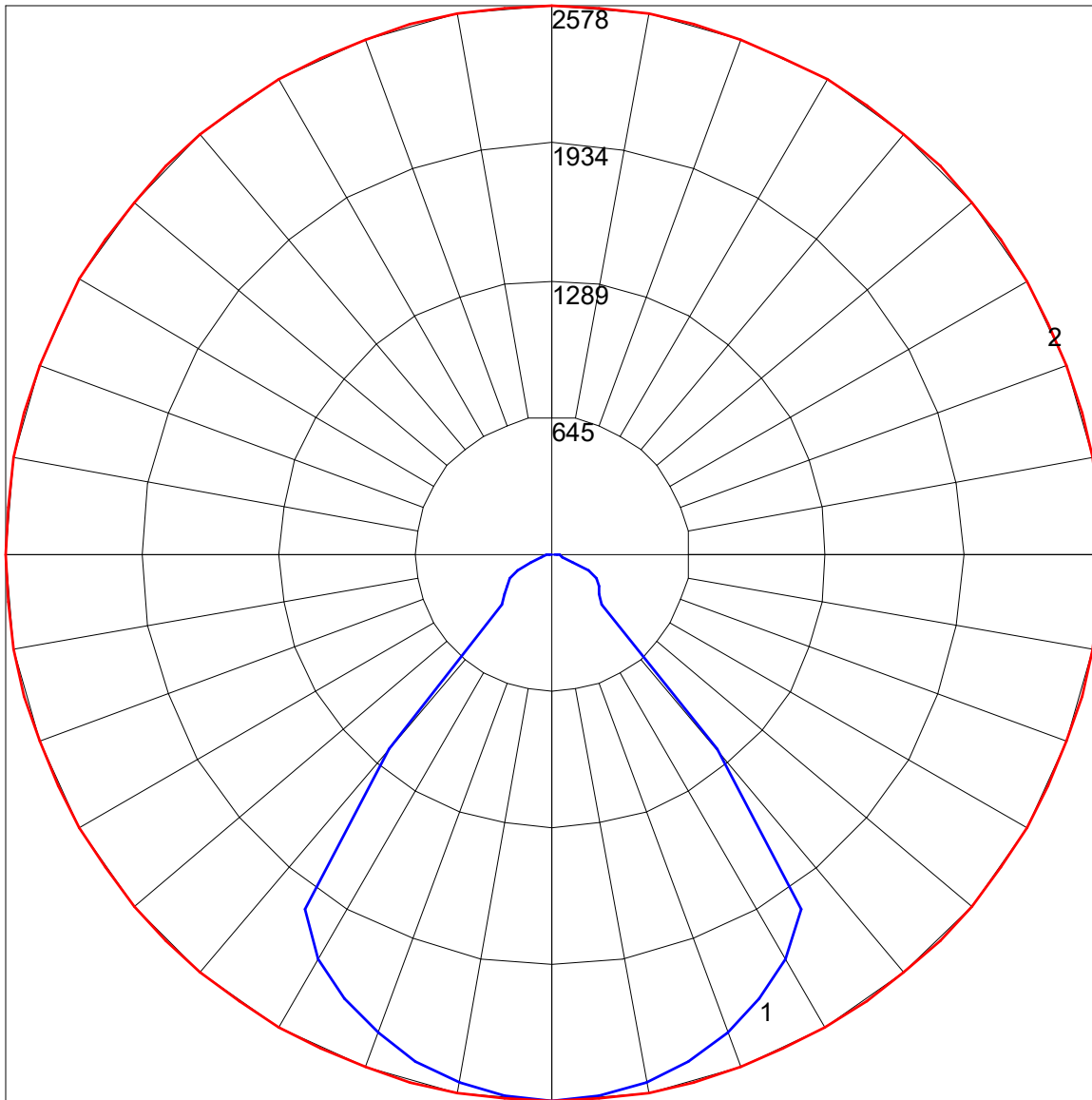
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	98	93	88	102	96	91	87	93	89	85	89	86	83	87	84	82	80
3	97	89	82	77	95	87	81	77	85	80	75	82	78	74	80	76	73	71
4	91	81	74	69	89	80	73	68	78	72	67	75	71	67	73	69	66	64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41
10	63	51	44	40	62	51	44	40	50	44	40	49	43	40	48	43	39	38

POLAR GRAPH



Maximum Candela = 2578.3 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.)