

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	55	57	58	59
Total Lumens, 4' rail length (1219mm)	1315	1357	1384	1412
Lumens per foot (305mm)	329	339	346	353
Input Power (W), 4' rail length (1219mm)	24.1	24.1	24.1	24.1
Watts per foot (305mm)	6.1	6.1	6.1	6.1
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_SO_359_WB.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L071704206 (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-SO-359-WB
 [LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board,
 [MORE] white baffle, standard output
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1384
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	57
Total Luminaire Watts	24.09
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	0.76
Spacing Criterion (Diagonal)	0.98
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	5742	11836	9267
55	5650	7761	7451
65	6152	5815	6067
75	3165	3578	4266
85	2043	2043	2043

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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	1071.00	1071.00	1071.00	1071.00	1071.00	1071.00	1071.00	1071.00	1071.00	1071.00
5	1068.96	1067.94	1066.92	1065.90	1062.84	1059.78	1056.72	1052.64	1048.56	1044.48
10	1057.74	1056.72	1051.62	1044.48	1033.26	1022.04	1009.80	998.58	986.34	975.12
15	1039.38	1036.32	1025.10	1007.76	988.38	969.00	950.64	931.26	912.90	895.56
20	1009.80	1003.68	984.30	958.80	933.30	905.76	879.24	853.74	826.20	798.66
25	967.98	958.80	930.24	899.64	864.96	830.28	795.60	757.86	723.18	691.56
30	918.00	904.74	869.04	830.28	787.44	744.60	699.72	656.88	615.06	578.34
35	858.84	841.50	799.68	751.74	702.78	650.76	599.76	549.78	501.84	462.06
40	512.04	516.12	531.42	551.82	557.94	534.48	488.58	438.60	387.60	341.70
45	116.28	121.38	130.56	142.80	167.28	205.02	252.96	282.54	266.22	239.70
50	102.00	106.08	112.20	119.34	127.50	138.72	151.98	164.22	171.36	176.46
55	92.82	95.88	98.94	104.04	110.16	117.30	124.44	126.48	126.48	127.50
60	87.72	88.74	88.74	89.76	90.78	93.84	94.86	95.88	96.90	96.90
65	74.46	73.44	72.42	70.38	68.34	68.34	68.34	68.34	69.36	70.38
70	47.94	47.94	46.92	44.88	43.86	43.86	43.86	44.88	45.90	46.92
75	23.46	23.46	23.46	23.46	23.46	23.46	24.48	25.50	25.50	26.52
80	12.24	12.24	12.24	11.22	11.22	11.22	11.22	11.22	12.24	12.24
85	5.10	5.10	5.10	5.10	5.10	5.10	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	0.00

Vert. 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	1071.00	1071.00	1071.00	1071.00	1071.00	1071.00	1071.00	1071.00	1071.00
5	1043.46	1037.34	1033.26	1030.20	1027.14	1025.10	1024.08	1023.06	1023.06
10	969.00	957.78	947.58	940.44	935.34	930.24	927.18	925.14	924.12
15	881.28	863.94	847.62	834.36	824.16	814.98	808.86	804.78	803.76
20	773.16	754.80	728.28	710.94	696.66	685.44	677.28	673.20	671.16
25	660.96	633.42	606.90	585.48	567.12	552.84	542.64	536.52	534.48
30	544.68	510.00	481.44	456.96	436.56	421.26	410.04	402.90	400.86
35	421.26	381.48	353.94	327.42	307.02	293.76	284.58	280.50	278.46
40	299.88	271.32	257.04	247.86	240.72	235.62	231.54	229.50	228.48
45	226.44	216.24	209.10	202.98	196.86	192.78	189.72	188.70	187.68
50	175.44	171.36	167.28	163.20	160.14	157.08	155.04	153.00	153.00
55	129.54	130.56	130.56	128.52	126.48	125.46	124.44	123.42	122.40
60	97.92	97.92	98.94	98.94	98.94	98.94	97.92	97.92	96.90
65	71.40	71.40	72.42	73.44	73.44	74.46	74.46	73.44	73.44
70	47.94	48.96	49.98	51.00	51.00	52.02	52.02	52.02	52.02
75	27.54	29.58	29.58	30.60	31.62	31.62	32.64	32.64	31.62
80	13.26	13.26	14.28	15.30	15.30	15.30	16.32	16.32	16.32
85	5.10	5.10	5.10	5.10	5.10	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	351.93	N.A.	25.40
0-30	680.62	N.A.	49.20
0-40	991.50	N.A.	71.60
0-60	1276.53	N.A.	92.20
0-80	1377.93	N.A.	99.50
0-90	1384.32	N.A.	100.00
10-90	1286.45	N.A.	92.90
20-40	639.57	N.A.	46.20
20-50	816.19	N.A.	59.00
40-70	355.86	N.A.	25.70
60-80	101.41	N.A.	7.30
70-80	30.57	N.A.	2.20
80-90	6.39	N.A.	0.50
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	1384.32	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	97.87
10-20	254.06
20-30	328.68
30-40	310.89
40-50	176.62
50-60	108.40
60-70	70.84
70-80	30.57
80-90	6.39
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

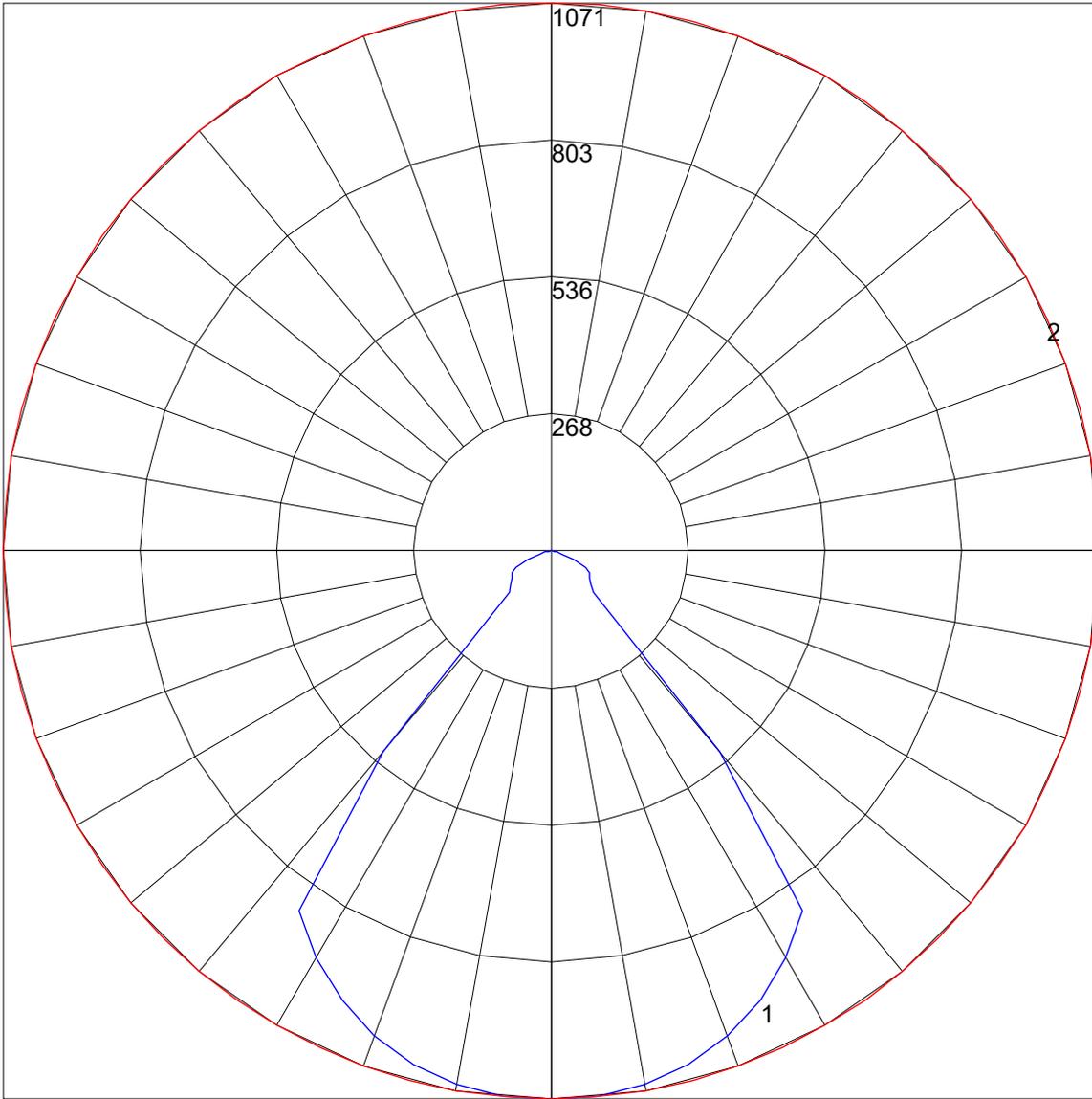
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45
9	67	55	48	44	65	55	48	43	54	48	43	53	47	43	52	47	43	41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38

POLAR GRAPH



Maximum Candela = 1071 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.)