

IES Report

BoxRail® | 207 | 120° Flywing, down | 90 CRI | SO

207-BX-XX-4-48-XX-XX-XX-X-X-Z-SO-359-G2-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	108	112	114	115
Total Lumens, 4' rail length (1219mm)	2725	2811	2869	2897
Lumens per foot (305mm)	681	703	717	724
Input Power (W), 4' rail length (1219mm)	25.3	25.3	25.3	25.3
Watts per foot (305mm)	6.4	6.4	6.4	6.4
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_SO_359_G2.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022012001 (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-SO-359-G2

[LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board,

[MORE] 120° flywing lens down, standard 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	2869
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	25.26
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.64
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.54
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	19572	20395	24826
55	14445	16160	23596
65	8313	10443	21378
75	2667	4256	16306
85	301	498	6018

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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	909.66	909.66	909.66	909.66	909.66	909.66	909.66	909.66	909.66	909.66
5	921.90	921.27	920.62	919.65	918.74	917.76	916.73	915.65	914.53	913.37
10	956.27	954.86	952.64	950.08	947.04	943.56	939.63	933.28	926.79	920.13
15	1002.28	1000.28	996.64	992.22	986.09	976.12	965.43	954.12	942.28	928.28
20	1043.86	1041.08	1036.36	1029.68	1018.09	1005.48	991.20	973.39	955.07	935.81
25	1066.49	1062.80	1058.23	1048.17	1036.47	1021.42	1003.88	986.10	960.23	933.33
30	1060.21	1056.95	1052.17	1042.59	1030.93	1016.50	999.90	977.01	949.98	919.92
35	1024.08	1020.88	1015.76	1009.09	998.67	986.93	972.55	946.79	921.11	889.68
40	961.38	959.19	954.52	948.26	940.93	932.04	915.57	896.20	873.37	841.40
45	875.12	874.16	870.73	866.26	860.50	854.26	840.08	826.46	801.59	777.33
50	768.08	766.39	764.07	762.08	760.17	755.07	746.39	734.20	715.61	690.21
55	642.68	641.02	641.22	641.45	639.14	631.83	628.83	620.17	610.43	595.42
60	509.32	508.42	506.50	498.20	496.18	493.91	493.27	492.63	487.54	478.41
65	356.76	357.71	351.58	348.24	348.95	355.28	356.26	354.71	358.25	359.85
70	216.35	211.27	211.38	213.33	223.32	226.10	230.96	234.98	239.85	241.33
75	106.79	100.72	108.79	110.89	113.58	117.42	120.46	123.57	130.04	132.05
80	29.84	35.33	33.62	35.54	37.57	39.09	41.79	47.02	49.30	56.37
85	10.81	11.68	11.75	11.64	11.55	11.51	11.10	11.24	11.97	13.27
90	6.50	6.54	6.50	6.50	6.45	6.33	6.25	6.04	5.74	5.45

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	909.66	909.66	909.66	909.66	909.66	909.66	909.66	909.66	909.66
5	912.19	911.00	909.80	908.60	907.42	906.25	905.05	904.00	902.95
10	913.36	906.51	899.77	896.33	893.14	890.19	887.49	884.98	882.92
15	914.71	902.81	891.23	880.05	869.10	863.97	859.58	855.66	852.74
20	914.98	893.16	872.25	856.13	840.98	826.63	820.24	814.82	811.17
25	906.69	878.35	850.34	823.79	803.49	785.47	772.19	765.34	761.04
30	887.12	852.96	819.14	787.45	758.40	737.77	719.54	711.86	707.31
35	853.42	817.24	777.92	741.85	709.83	684.72	665.68	655.47	649.72
40	806.85	766.45	726.50	687.27	654.33	627.10	608.69	597.17	591.30
45	739.96	703.88	664.62	626.48	593.75	568.27	550.75	539.46	534.13
50	661.08	627.39	591.80	557.87	527.25	505.77	490.10	479.73	475.20
55	566.98	538.00	509.65	480.54	456.02	438.47	425.89	417.78	415.68
60	462.90	442.56	417.28	393.16	373.92	360.13	351.23	344.84	343.60
65	352.32	336.50	320.78	307.91	298.07	290.48	286.11	283.45	281.82
70	240.55	238.60	233.11	225.34	218.81	213.91	211.72	210.45	209.23
75	136.44	140.85	143.23	140.74	138.05	137.23	134.44	134.08	136.13
80	56.49	60.16	64.79	72.23	75.38	75.16	73.50	73.13	73.35
85	14.27	14.80	15.56	16.90	17.33	18.24	18.15	18.53	19.62
90	4.99	4.61	4.19	3.77	3.44	3.06	2.68	2.77	2.68

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	350.18	N.A.	12.20
0-30	775.28	N.A.	27.00
0-40	1312.91	N.A.	45.80
0-60	2374.11	N.A.	82.80
0-80	2844.66	N.A.	99.20
0-90	2868.52	N.A.	100.00
10-90	2781.15	N.A.	97.00
20-40	962.73	N.A.	33.60
20-50	1529.31	N.A.	53.30
40-70	1391.46	N.A.	48.50
60-80	470.55	N.A.	16.40
70-80	140.29	N.A.	4.90
80-90	23.85	N.A.	0.80
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	2868.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	87.36
10-20	262.82
20-30	425.10
30-40	537.63
40-50	566.58
50-60	494.61
60-70	330.26
70-80	140.29
80-90	23.85
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

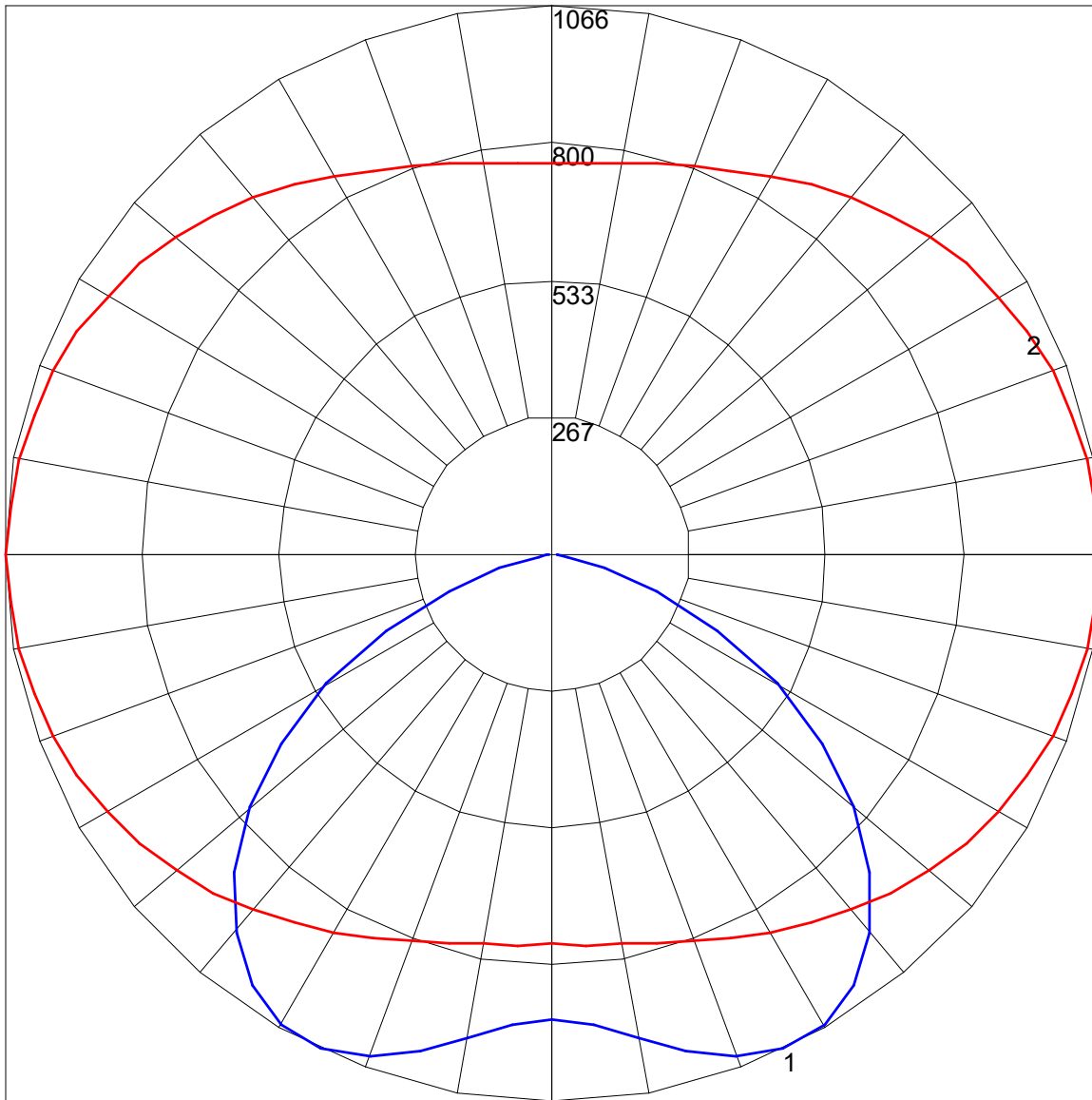
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	57	48	42	69	56	48	42	55	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 1066.49 Located At Horizontal Angle = 0, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)