

IES Report

BoxRail® | 207 | Diffuse, down | 90 CRI | SO

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-359-D1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	57	59	60	61
Total Lumens, 4' rail length (1219mm)	1438	1483	1514	1529
Lumens per foot (305mm)	359	371	378	382
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_D1_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010913 (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-D1-BL

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

[MORE] diffuse lens down, standard output, black anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1513
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	25.26
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.36
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	7902	9483	16972
55	6001	7463	16192
65	3914	5075	14829
75	1847	2575	12561
85	247	460	8431

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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	560.11	560.11	560.11	560.11	560.11	560.11	560.11	560.11	560.11	560.11
5	557.10	556.86	556.63	556.49	556.35	556.23	556.15	556.10	556.08	556.10
10	549.13	548.72	548.51	548.38	548.37	548.49	548.71	548.29	548.05	547.97
15	535.39	534.84	534.79	534.98	535.22	534.68	534.54	534.80	535.46	535.67
20	516.94	516.33	516.61	516.92	516.37	516.36	516.58	516.25	516.57	516.71
25	494.06	493.28	493.48	493.14	493.44	493.49	493.54	494.47	493.59	493.38
30	466.15	465.66	465.88	465.63	465.73	465.86	466.24	466.03	466.13	466.18
35	432.95	432.53	432.43	432.86	432.94	433.53	434.21	433.81	434.62	434.98
40	394.81	394.59	394.56	394.90	395.71	396.89	397.04	397.91	399.15	399.95
45	353.32	353.56	353.77	354.41	354.93	355.46	356.69	358.59	359.18	361.45
50	311.99	311.61	311.35	311.74	312.55	313.20	314.78	316.07	317.16	319.55
55	266.98	266.55	266.88	267.32	266.74	265.25	266.06	267.95	270.85	274.97
60	219.54	219.21	218.02	214.48	213.32	213.32	215.04	216.95	220.67	225.11
65	167.98	167.56	161.43	159.82	160.59	162.69	165.24	167.49	171.09	174.87
70	117.77	112.80	110.78	113.75	115.95	117.64	118.83	119.37	122.15	126.60
75	73.93	68.21	71.77	72.65	72.45	72.64	73.05	73.83	76.77	79.90
80	33.70	34.00	34.75	35.53	35.85	36.36	36.81	37.75	38.86	40.29
85	8.89	10.54	9.44	9.29	9.26	9.72	9.14	10.37	11.41	12.27
90	5.13	5.24	5.24	5.32	5.28	5.20	5.11	4.86	4.61	4.23

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	560.11	560.11	560.11	560.11	560.11	560.11	560.11	560.11	560.11
5	556.14	556.22	556.34	556.48	556.65	556.85	557.06	557.32	557.60
10	548.04	548.27	548.63	548.47	548.41	548.47	548.65	548.93	549.38
15	535.47	534.94	534.77	534.96	535.56	535.26	535.23	535.42	536.06
20	516.62	516.58	516.96	516.46	516.48	517.08	516.74	516.78	517.61
25	494.13	493.87	493.46	493.99	493.62	493.73	494.01	493.83	494.81
30	466.21	466.28	466.30	466.31	467.29	466.82	467.33	466.86	467.91
35	435.09	435.76	435.21	435.36	435.67	435.79	435.92	435.82	436.47
40	400.58	400.67	400.87	401.07	401.02	401.47	401.18	401.66	403.11
45	361.51	362.16	363.72	363.04	362.59	364.32	364.62	364.84	365.14
50	321.44	323.16	323.88	324.21	324.57	325.90	326.39	326.41	326.16
55	276.91	279.37	281.55	283.26	283.88	284.19	284.27	284.50	285.25
60	229.26	233.03	234.60	237.57	239.31	240.04	240.50	240.44	241.08
65	179.61	183.91	187.43	190.37	192.34	194.13	195.49	195.39	195.48
70	130.83	135.25	139.76	142.83	145.45	148.10	150.62	150.00	150.46
75	84.40	89.39	94.49	95.75	98.43	101.79	104.37	104.99	104.86
80	42.26	46.01	49.30	51.00	54.68	57.47	63.15	69.59	66.39
85	12.86	13.37	14.88	16.49	17.89	20.26	23.98	26.71	27.49
90	3.86	3.44	3.02	2.68	2.43	2.22	2.01	2.35	3.35

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	203.84	N.A.	13.50
0-30	431.30	N.A.	28.50
0-40	702.98	N.A.	46.40
0-60	1225.62	N.A.	81.00
0-80	1492.37	N.A.	98.60
0-90	1513.5	N.A.	100.00
10-90	1460.62	N.A.	96.50
20-40	499.15	N.A.	33.00
20-50	776.73	N.A.	51.30
40-70	698.59	N.A.	46.20
60-80	266.75	N.A.	17.60
70-80	90.79	N.A.	6.00
80-90	21.13	N.A.	1.40
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	1513.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	52.88
10-20	150.96
20-30	227.46
30-40	271.68
40-50	277.58
50-60	245.06
60-70	175.95
70-80	90.79
80-90	21.13
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

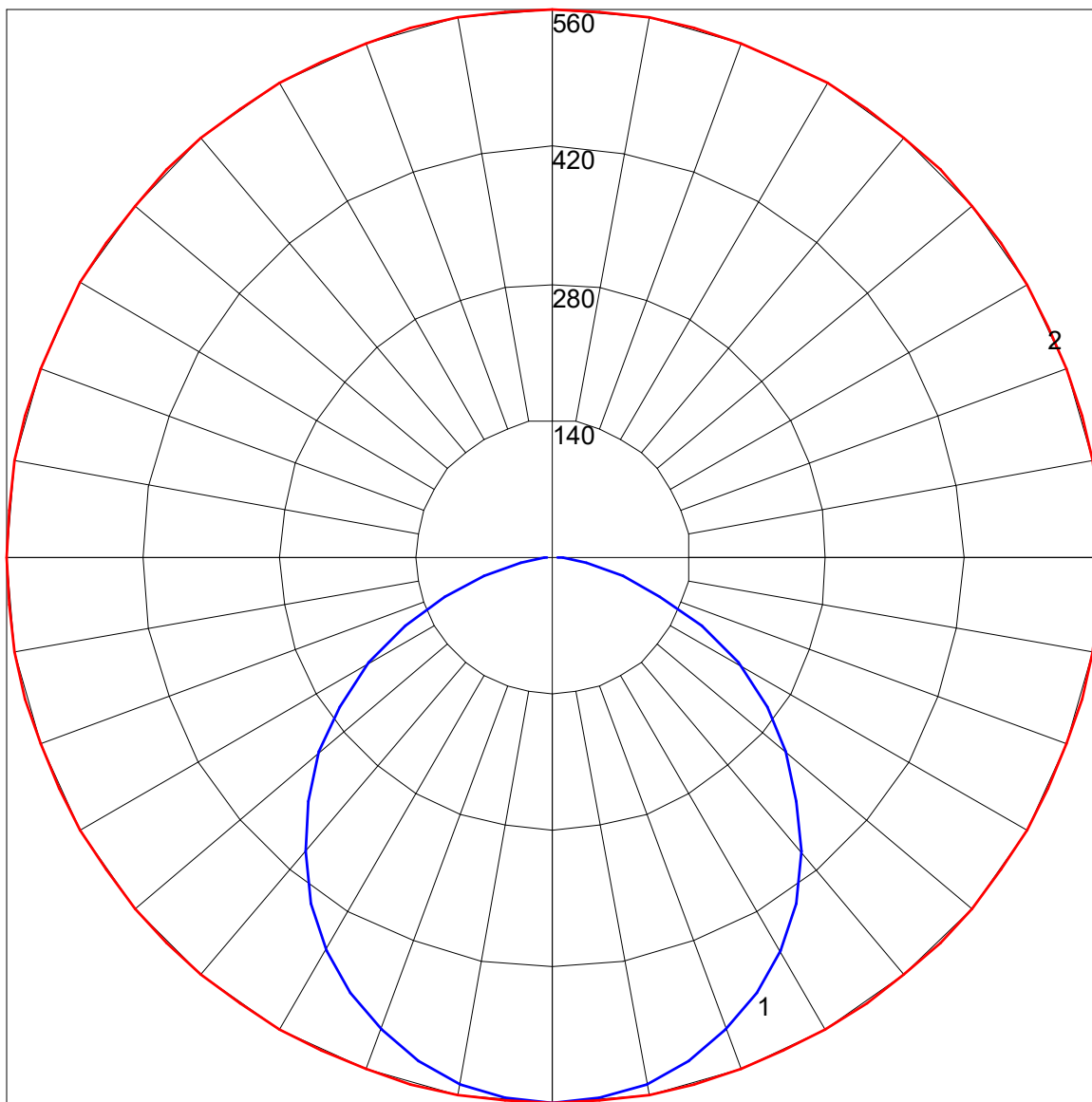
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	60	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 560.11 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.)