

IES Report

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

207-BX-XX-4-48-XX-XX-XX-X-X-Z-SO-359-G2-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	106	109	111	112
Total Lumens, 4' rail length (1219mm)	2654	2738	2793	2821
Lumens per foot (305mm)	663	684	698	705
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_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010914 (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-BL

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

[MORE] 120° flywing 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	2793
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	25.26
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.66
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.56
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	19329	20009	23926
55	14086	15873	22797
65	8403	10039	20698
75	2575	4168	15795
85	205	391	5579

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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	880.32	880.32	880.32	880.32	880.32	880.32	880.32	880.32	880.32	880.32
5	892.39	891.71	891.02	889.99	889.04	888.03	886.98	885.88	884.75	883.60
10	926.17	924.73	922.47	919.88	916.81	913.30	909.35	903.13	896.77	890.24
15	972.19	970.01	966.22	961.66	955.47	945.70	935.21	924.09	912.43	898.70
20	1014.44	1011.62	1006.87	1000.14	988.70	976.16	961.91	944.15	925.92	907.02
25	1039.75	1036.23	1031.70	1021.73	1010.00	994.75	976.79	958.34	932.54	905.71
30	1037.57	1034.66	1029.98	1020.25	1008.24	993.40	976.18	952.14	924.53	894.10
35	1007.57	1004.34	999.07	992.02	980.65	968.00	953.01	926.21	899.83	867.67
40	947.88	945.90	941.20	934.66	927.11	918.43	900.82	879.96	856.10	823.21
45	864.23	862.77	859.29	854.62	848.81	842.31	827.90	814.12	787.92	762.61
50	753.83	751.76	749.67	748.46	748.37	744.47	735.86	724.10	704.12	678.08
55	626.67	625.97	626.55	626.40	621.88	615.92	613.22	606.08	597.60	584.85
60	495.99	494.84	492.51	484.06	480.19	477.66	478.20	476.39	473.15	465.15
65	360.61	358.77	342.71	339.79	343.14	346.92	350.57	349.70	347.88	345.92
70	216.35	208.00	203.52	208.62	217.01	222.56	225.88	229.93	233.97	235.03
75	103.10	94.99	103.61	106.93	109.61	113.26	115.64	117.36	124.64	129.32
80	24.56	30.35	29.35	31.28	32.79	35.55	38.28	42.74	46.29	53.56
85	7.38	8.76	8.26	8.08	7.95	8.16	7.64	8.02	8.86	10.41
90	6.96	7.08	7.08	7.04	7.04	6.96	6.87	6.62	6.25	5.83

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	880.32	880.32	880.32	880.32	880.32	880.32	880.32	880.32	880.32
5	882.44	881.27	880.10	878.95	877.82	876.71	875.59	874.59	873.62
10	883.61	876.91	870.32	866.98	863.86	860.96	858.29	855.81	853.75
15	885.42	873.76	862.35	851.27	840.38	835.08	830.48	826.33	823.15
20	886.49	864.84	844.02	827.95	812.86	798.60	792.11	786.61	782.83
25	878.96	850.64	822.72	796.18	776.07	758.31	745.21	738.42	734.13
30	860.87	826.66	792.91	761.26	732.19	711.87	693.87	686.49	682.16
35	830.41	793.49	753.93	717.62	685.46	660.31	641.33	631.27	625.66
40	787.18	745.63	705.08	665.56	632.45	605.02	586.48	574.94	569.17
45	723.50	686.04	645.90	607.41	574.25	547.81	530.62	519.86	514.76
50	648.14	612.35	575.79	541.17	510.53	488.47	473.09	463.11	458.10
55	556.28	526.97	497.64	466.99	442.86	424.13	410.72	403.38	401.60
60	452.35	433.83	408.63	384.70	366.34	352.78	343.82	338.26	336.14
65	341.39	329.22	314.48	302.12	291.84	283.36	278.26	274.26	272.85
70	234.18	231.46	226.40	220.29	215.16	209.17	205.72	204.05	202.77
75	134.11	139.61	140.03	136.92	135.42	134.71	131.03	129.71	131.86
80	54.31	59.03	62.68	68.54	74.98	75.01	73.62	72.35	72.51
85	11.76	12.10	12.79	14.73	15.75	16.79	17.29	17.73	18.19
90	5.37	4.86	4.36	3.86	3.35	2.85	2.43	2.31	2.43

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	339.01	N.A.	12.10
0-30	751.68	N.A.	26.90
0-40	1275.98	N.A.	45.70
0-60	2313.05	N.A.	82.80
0-80	2771.68	N.A.	99.20
0-90	2793.45	N.A.	100.00
10-90	2708.92	N.A.	97.00
20-40	936.97	N.A.	33.50
20-50	1491.4	N.A.	53.40
40-70	1359.59	N.A.	48.70
60-80	458.63	N.A.	16.40
70-80	136.11	N.A.	4.90
80-90	21.77	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	2793.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	84.53
10-20	254.48
20-30	412.67
30-40	524.30
40-50	554.43
50-60	482.63
60-70	322.53
70-80	136.11
80-90	21.77
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

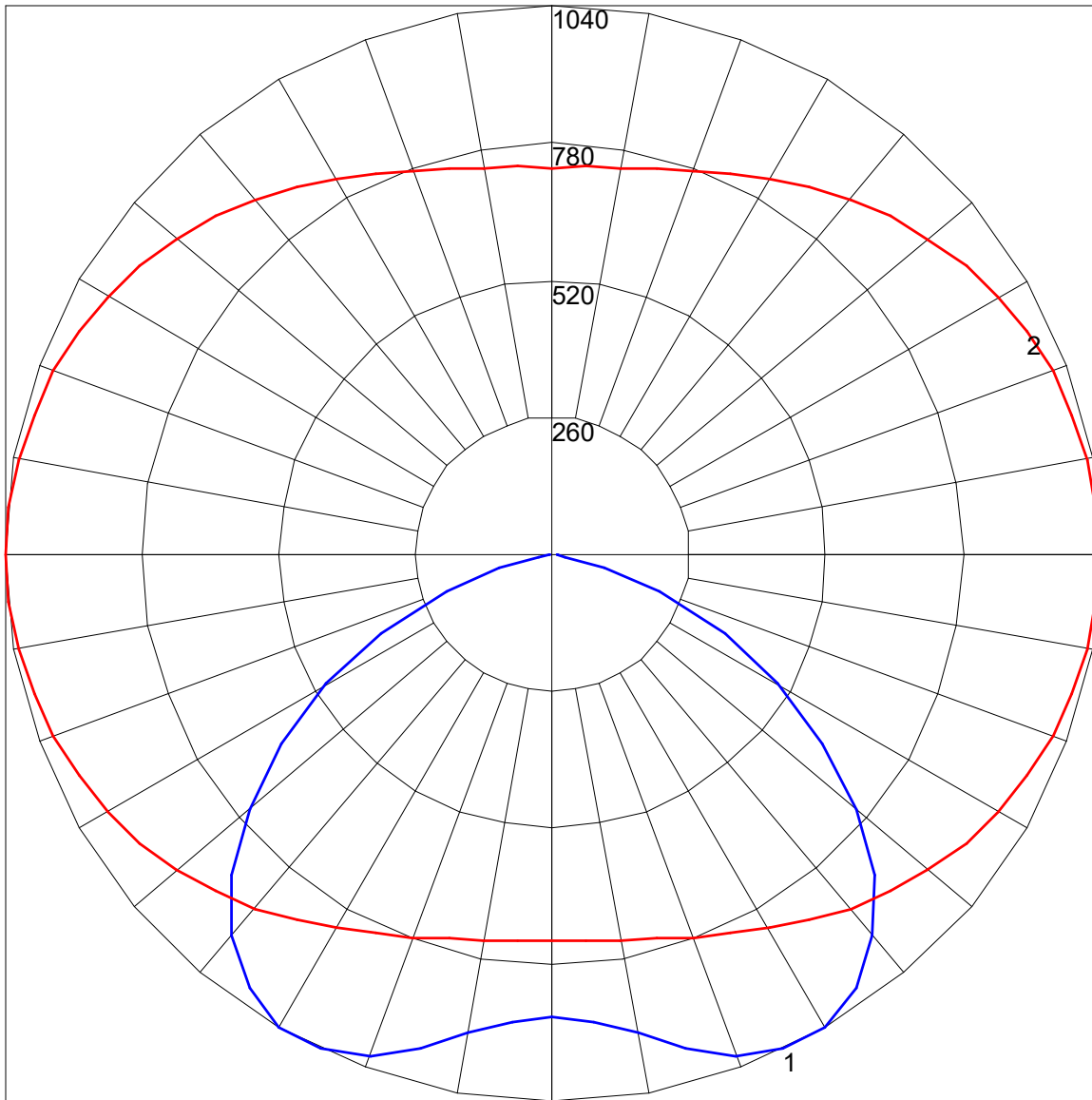
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	99	96	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	72
3	91	81	73	66	89	79	72	66	76	70	65	74	68	64	71	66	63	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	26	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 1039.75 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.)