

IES Report

BoxRail® | 107 | Black Baffle | 80 CRI | SO

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-35-BB-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	41	42	43	43
Total Lumens, 4' rail length (1219mm)	962	992	1013	1013
Lumens per foot (305mm)	241	248	253	253
Input Power (W), 4' rail length (1219mm)	23.9	23.9	23.9	23.9
Watts per foot (305mm)	6.0	6.0	6.0	6.0
CRI	82	82	82	82

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_35_BB.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L121911508 (SOURCE REPORT FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB
[ISSUE DATE] 12/23/2019
[MANUFAC] Vode Lighting
[LUMCAT] 107-BX-48-Z-SO-35-BB-AL
[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board, black baffle,
[MORE] 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	1012
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	42
Total Luminaire Watts	23.92
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	0.66
Spacing Criterion (Diagonal)	0.86
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.07 ft
Luminous Width (90-270)	3.84 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1381	3386	1485
55	1472	1004	678
65	1473	580	313
75	1458	654	165
85	1741	1161	90

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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	1154.618	1154.618	1154.618	1154.618	1154.618	1154.618	1154.618	1154.618	1154.618	1154.618
5	1153.411	1152.831	1150.592	1147.623	1143.644	1138.436	1132.891	1126.232	1119.818	1113.542
10	1143.598	1140.431	1131.244	1117.242	1099.112	1080.436	1062.444	1044.708	1027.783	1012.425
15	1122.300	1115.642	1094.970	1066.632	1036.100	1006.880	978.286	948.973	919.172	892.284
20	1092.442	1080.343	1045.288	1004.885	963.368	921.411	878.619	837.450	798.938	765.496
25	1054.034	1034.929	986.603	935.900	879.988	824.609	772.931	724.501	679.145	635.970
30	1006.486	979.121	918.592	856.648	787.373	723.295	665.724	607.144	544.179	484.474
35	949.216	913.871	841.916	767.236	688.669	619.394	548.657	471.354	392.347	333.477
40	568.342	561.057	560.373	558.378	540.050	490.750	402.358	330.600	250.630	166.762
45	24.406	25.427	27.562	32.086	52.803	85.272	131.799	144.838	87.557	59.844
50	21.878	21.495	20.416	19.210	18.189	17.702	18.664	22.272	27.712	31.506
55	21.100	20.416	18.722	16.866	14.825	13.131	11.960	11.762	12.540	14.396
60	20.323	19.302	17.261	15.022	12.737	10.788	9.535	8.700	8.271	8.364
65	15.556	14.976	13.665	12.203	10.602	9.187	8.166	7.296	6.612	6.125
70	12.157	11.716	10.788	9.825	8.700	7.784	6.902	6.229	5.545	5.011
75	9.431	9.187	8.561	7.923	7.250	6.566	5.881	5.255	4.663	4.234
80	7.586	7.343	6.809	6.322	5.881	5.301	4.814	4.327	3.793	3.399
85	3.793	3.793	3.642	3.550	3.457	3.352	3.213	3.062	2.819	2.529
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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	1154.618	1154.618	1154.618	1154.618	1154.618	1154.618	1154.618	1154.618	1154.618
5	1107.232	1101.733	1096.768	1092.152	1088.556	1085.644	1083.405	1082.280	1081.851
10	997.449	983.784	971.338	960.399	951.014	943.672	938.231	935.018	934.044
15	867.634	844.886	825.537	808.810	795.296	784.740	777.397	772.978	771.272
20	735.104	706.858	681.477	658.729	639.079	622.850	610.589	603.304	600.729
25	592.168	549.875	512.047	479.277	452.632	432.112	417.577	408.830	405.861
30	428.620	380.631	339.938	301.623	268.227	240.422	219.750	207.362	202.838
35	269.398	205.413	148.434	105.792	82.314	69.913	63.696	60.575	59.601
40	97.626	68.405	58.000	52.270	47.989	44.579	42.154	40.646	40.159
45	51.782	45.797	40.449	36.076	32.619	29.998	28.049	26.738	26.251
50	31.749	29.464	26.448	23.536	21.147	19.210	17.702	16.774	16.333
55	16.147	16.727	15.904	14.488	13.131	11.820	10.742	10.011	9.721
60	8.700	9.094	9.141	8.700	7.969	7.250	6.566	5.986	5.638
65	5.881	5.742	5.638	5.348	5.011	4.524	3.990	3.550	3.306
70	4.617	4.234	3.944	3.596	3.260	2.865	2.529	2.134	1.949
75	3.700	3.306	2.970	2.622	2.285	1.949	1.601	1.357	1.067
80	2.970	2.575	2.285	1.949	1.705	1.357	1.114	0.777	0.580
85	2.332	1.995	1.659	1.462	1.172	0.974	0.731	0.441	0.197
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	360.16	N.A.	35.60
0-30	666.19	N.A.	65.80
0-40	910.84	N.A.	90.00
0-60	997.29	N.A.	98.50
0-80	1010.14	N.A.	99.80
0-90	1012.43	N.A.	100.00
10-90	908.74	N.A.	89.80
20-40	550.67	N.A.	54.40
20-50	623.42	N.A.	61.60
40-70	94.28	N.A.	9.30
60-80	12.85	N.A.	1.30
70-80	5.03	N.A.	0.50
80-90	2.29	N.A.	0.20
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	1012.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	103.69
10-20	256.48
20-30	306.02
30-40	244.65
40-50	72.75
50-60	13.71
60-70	7.82
70-80	5.03
80-90	2.29
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

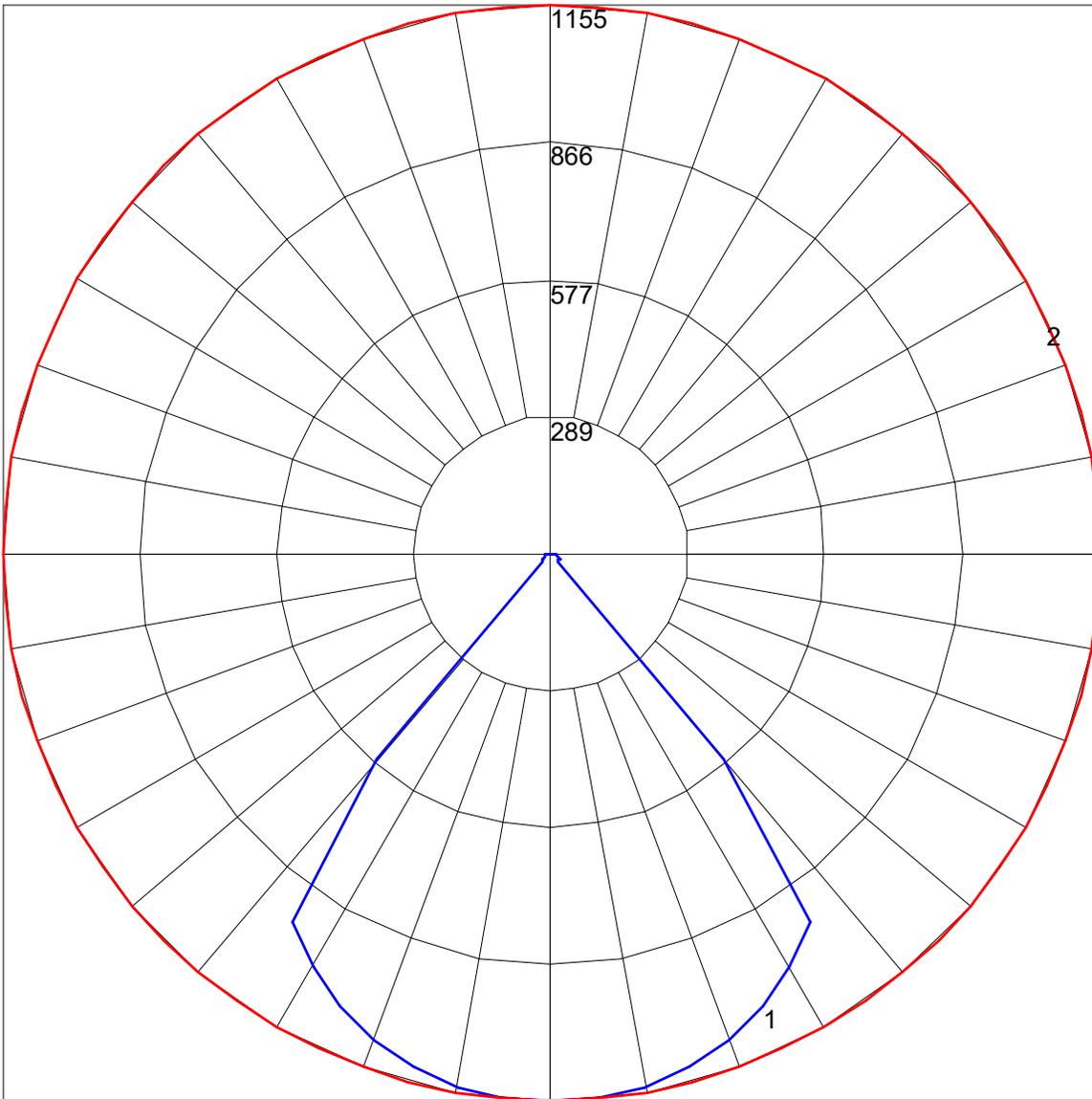
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	107	102	98	95	105	101	97	93	97	94	91	94	92	89	92	89	88	86
3	102	95	90	86	100	94	89	85	91	87	84	89	85	82	86	83	81	79
4	96	88	83	78	94	87	82	78	85	81	77	83	79	76	81	78	75	74
5	91	83	77	72	90	82	76	72	80	75	71	78	74	70	77	73	70	68
6	86	77	71	67	85	76	71	66	75	70	66	73	69	65	72	68	65	64
7	82	72	66	62	81	72	66	62	70	65	61	69	65	61	68	64	61	59
8	78	68	62	58	77	67	62	58	66	61	57	65	61	57	64	60	57	55
9	74	64	58	54	73	64	58	54	63	57	54	62	57	53	61	56	53	52
10	70	60	55	51	69	60	54	50	59	54	50	58	54	50	58	53	50	49

POLAR GRAPH



Maximum Candela = 1154.618 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.)