

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	64	66	67	67
Total Lumens, 4' rail length (1219mm)	1526	1574	1606	1606
Lumens per foot (305mm)	381	393	401	401
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	85	85	85	85

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_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-35-WB
 [LUMINAIRE] BoxRail LED, 48", 3500K, 80 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	1601
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
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	6642	13692	10721
55	6536	8979	8620
65	7117	6727	7019
75	3661	4139	4935
85	2364	2364	2364

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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	1239.00	1239.00	1239.00	1239.00	1239.00	1239.00	1239.00	1239.00	1239.00	1239.00
5	1236.64	1235.46	1234.28	1233.10	1229.56	1226.02	1222.48	1217.76	1213.04	1208.32
10	1223.66	1222.48	1216.58	1208.32	1195.34	1182.36	1168.20	1155.22	1141.06	1128.08
15	1202.42	1198.88	1185.90	1165.84	1143.42	1121.00	1099.76	1077.34	1056.10	1036.04
20	1168.20	1161.12	1138.70	1109.20	1079.70	1047.84	1017.16	987.66	955.80	923.94
25	1119.82	1109.20	1076.16	1040.76	1000.64	960.52	920.40	876.74	836.62	800.04
30	1062.00	1046.66	1005.36	960.52	910.96	861.40	809.48	759.92	711.54	669.06
35	993.56	973.50	925.12	869.66	813.02	752.84	693.84	636.02	580.56	534.54
40	592.36	597.08	614.78	638.38	645.46	618.32	565.22	507.40	448.40	395.30
45	134.52	140.42	151.04	165.20	193.52	237.18	292.64	326.86	307.98	277.30
50	118.00	122.72	129.80	138.06	147.50	160.48	175.82	189.98	198.24	204.14
55	107.38	110.92	114.46	120.36	127.44	135.70	143.96	146.32	146.32	147.50
60	101.48	102.66	102.66	103.84	105.02	108.56	109.74	110.92	112.10	112.10
65	86.14	84.96	83.78	81.42	79.06	79.06	79.06	79.06	80.24	81.42
70	55.46	55.46	54.28	51.92	50.74	50.74	50.74	51.92	53.10	54.28
75	27.14	27.14	27.14	27.14	27.14	27.14	28.32	29.50	29.50	30.68
80	14.16	14.16	14.16	12.98	12.98	12.98	12.98	12.98	14.16	14.16
85	5.90	5.90	5.90	5.90	5.90	5.90	5.90	5.90	5.90	5.90
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	1239.00	1239.00	1239.00	1239.00	1239.00	1239.00	1239.00	1239.00	1239.00
5	1207.14	1200.06	1195.34	1191.80	1188.26	1185.90	1184.72	1183.54	1183.54
10	1121.00	1108.02	1096.22	1087.96	1082.06	1076.16	1072.62	1070.26	1069.08
15	1019.52	999.46	980.58	965.24	953.44	942.82	935.74	931.02	929.84
20	894.44	873.20	842.52	822.46	805.94	792.96	783.52	778.80	776.44
25	764.64	732.78	702.10	677.32	656.08	639.56	627.76	620.68	618.32
30	630.12	590.00	556.96	528.64	505.04	487.34	474.36	466.10	463.74
35	487.34	441.32	409.46	378.78	355.18	339.84	329.22	324.50	322.14
40	346.92	313.88	297.36	286.74	278.48	272.58	267.86	265.50	264.32
45	261.96	250.16	241.90	234.82	227.74	223.02	219.48	218.30	217.12
50	202.96	198.24	193.52	188.80	185.26	181.72	179.36	177.00	177.00
55	149.86	151.04	151.04	148.68	146.32	145.14	143.96	142.78	141.60
60	113.28	113.28	114.46	114.46	114.46	114.46	113.28	113.28	112.10
65	82.60	82.60	83.78	84.96	84.96	86.14	86.14	84.96	84.96
70	55.46	56.64	57.82	59.00	59.00	60.18	60.18	60.18	60.18
75	31.86	34.22	34.22	35.40	36.58	36.58	37.76	37.76	36.58
80	15.34	15.34	16.52	17.70	17.70	17.70	18.88	18.88	18.88
85	5.90	5.90	5.90	5.90	5.90	5.90	5.90	5.90	5.90
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	407.14	N.A.	25.40
0-30	787.38	N.A.	49.20
0-40	1147.03	N.A.	71.60
0-60	1476.76	N.A.	92.20
0-80	1594.08	N.A.	99.50
0-90	1601.47	N.A.	100.00
10-90	1488.24	N.A.	92.90
20-40	739.89	N.A.	46.20
20-50	944.22	N.A.	59.00
40-70	411.68	N.A.	25.70
60-80	117.32	N.A.	7.30
70-80	35.37	N.A.	2.20
80-90	7.39	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	1601.47	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	113.23
10-20	293.91
20-30	380.24
30-40	359.65
40-50	204.32
50-60	125.41
60-70	81.95
70-80	35.37
80-90	7.39
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

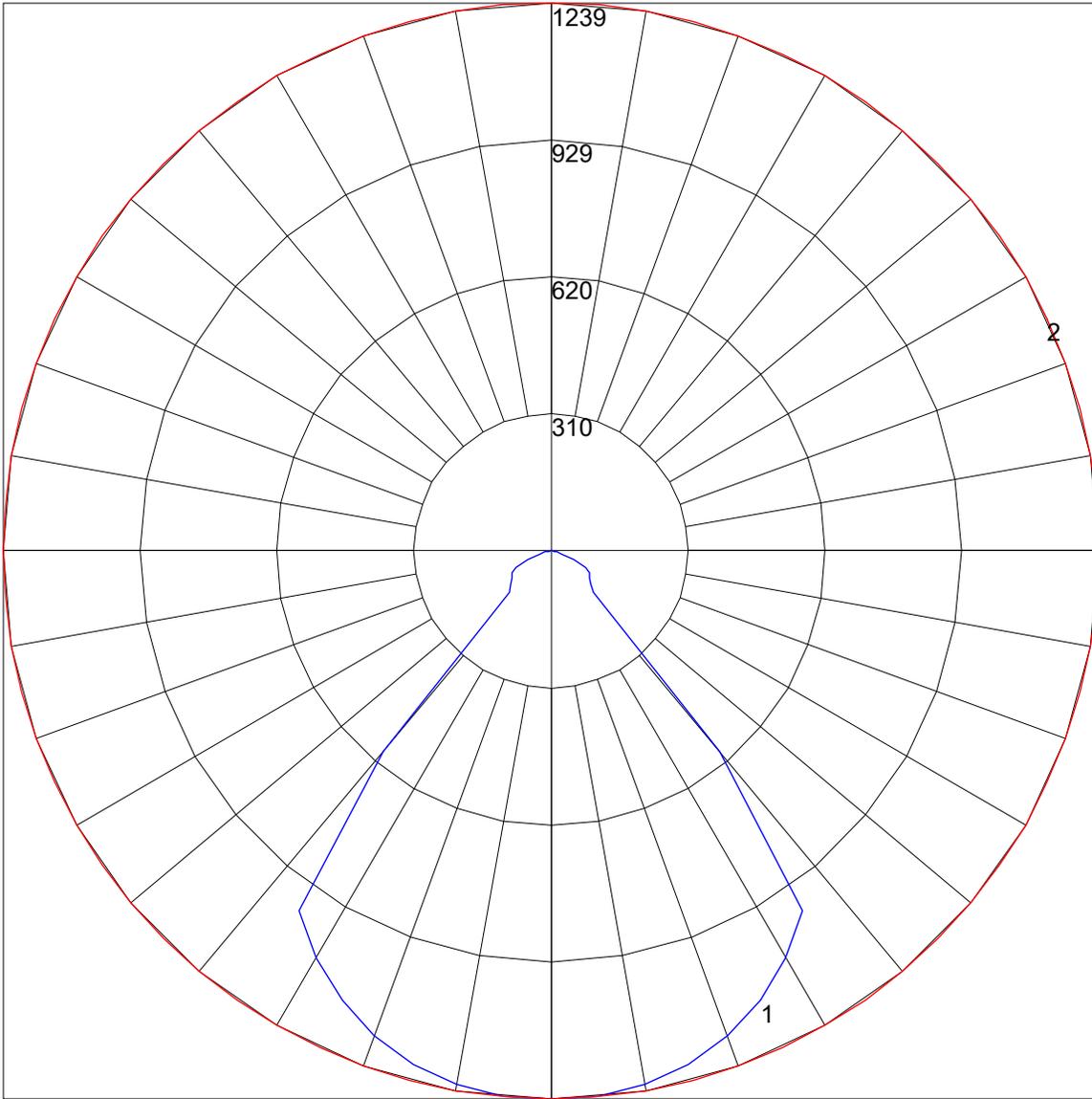
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1239 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.)