

IES Report

BoxRail® | 107 | 40° Symmetric | 80 CRI | LO

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-35-S1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	32	33	33	34
Total Lumens, 4' rail length (1219mm)	469	483	493	503
Lumens per foot (305mm)	117	121	123	126
Input Power (W), 4' rail length (1219mm)	15.0	15.0	15.0	15.0
Watts per foot (305mm)	3.8	3.8	3.8	3.8
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_LO_35_S1-BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L071704211 (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-LO-35-S1-BL
[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board,
[MORE] 40° black symmetric lens, low output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	492
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	33
Total Luminaire Watts	14.95
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.66
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	0.82
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.02 ft
Luminous Width (90-270)	3.83 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3866	9547	39066
55	1733	4188	21373
65	1176	2352	10780
75	640	1600	6081
85	0	0	2851

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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>
0.0	497.96	497.96	497.96	497.96	497.96	497.96	497.96	497.96	497.96	497.96
1.0	500.32	500.32	500.32	500.32	501.50	501.50	500.91	500.91	500.32	500.32
3.0	498.55	498.55	498.55	498.55	498.55	497.96	497.96	497.96	497.96	497.96
5.0	491.47	491.47	491.47	491.47	490.29	490.88	490.88	491.47	492.06	493.24
7.0	474.95	474.95	475.54	476.13	473.77	474.95	476.72	478.49	480.26	482.62
9.0	453.12	453.12	454.30	455.48	451.94	454.30	458.43	461.38	464.92	469.05
11.0	424.80	424.80	426.57	428.34	424.21	430.11	434.83	440.14	445.45	451.35
13.0	390.58	391.17	393.53	398.25	394.12	400.02	407.69	414.77	423.03	431.29
15.0	353.41	354.00	356.36	357.54	356.95	364.62	375.83	385.27	395.89	406.51
17.0	313.29	314.47	317.42	316.83	319.78	330.99	341.02	352.23	365.21	378.78
19.5	257.24	260.78	267.27	272.58	270.22	281.43	293.23	309.75	325.68	342.20
22.5	205.91	207.09	212.40	212.99	218.30	229.51	242.49	258.42	277.30	296.77
25.5	155.17	156.35	159.89	161.07	167.56	179.36	192.93	209.45	228.33	250.16
29.0	110.33	112.69	113.87	118.59	119.77	129.80	142.19	157.53	176.41	197.65
33.0	69.62	71.39	73.16	74.93	78.47	86.73	96.17	109.15	125.08	143.37
37.5	41.30	42.48	44.25	44.25	47.79	53.69	60.77	69.62	82.60	97.35
42.5	24.78	24.78	25.37	26.55	26.55	30.09	34.22	40.71	48.97	59.59
47.5	14.16	14.16	14.75	15.93	15.93	18.29	21.24	24.78	29.50	36.58
55.0	7.08	7.08	7.08	7.67	7.67	8.85	10.03	11.80	14.16	17.11
65.0	3.54	3.54	3.54	3.54	3.54	4.13	4.13	4.72	5.90	7.08
75.0	1.18	1.18	1.77	1.77	1.77	1.77	1.77	2.36	2.36	2.95
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	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>
0.0	497.96	497.96	497.96	497.96	497.96	497.96	497.96	497.96	497.96
1.0	500.32	501.50	500.91	500.91	500.91	500.91	500.91	500.91	500.91
3.0	497.96	497.96	498.55	498.55	499.14	499.14	499.14	499.14	499.14
5.0	493.83	494.42	495.60	496.19	496.78	497.37	497.96	498.55	498.55
7.0	484.98	486.75	489.11	490.29	493.24	494.42	495.60	496.19	496.19
9.0	473.18	476.72	480.26	483.21	486.16	488.52	490.88	492.06	493.24
11.0	457.84	463.15	469.05	473.77	478.49	482.03	484.98	486.75	488.52
13.0	439.55	447.81	457.25	463.74	470.23	475.54	479.08	481.44	482.62
15.0	418.31	429.52	439.55	448.99	459.61	467.28	472.59	475.54	476.13
17.0	394.12	408.28	420.67	434.83	446.04	454.89	461.97	466.10	467.87
19.5	359.90	381.73	399.43	413.00	428.34	440.14	450.17	455.48	459.02
22.5	319.19	340.43	362.26	381.73	399.43	415.36	427.16	434.24	436.60
25.5	274.35	299.13	321.55	346.33	371.70	391.17	405.33	414.18	417.13
29.0	223.61	250.75	278.48	305.03	333.35	356.36	374.06	385.27	388.81
33.0	167.56	193.52	222.43	250.16	279.66	309.16	329.81	342.79	346.92
37.5	116.23	139.83	166.38	192.34	221.84	246.62	271.99	287.33	293.23
42.5	73.16	91.45	113.28	135.11	162.25	188.21	210.04	222.43	228.92
47.5	45.43	57.82	72.57	89.68	109.74	130.98	148.09	159.89	164.61
55.0	21.83	27.73	35.40	44.84	55.46	66.67	77.29	84.96	87.32
65.0	8.85	10.62	13.57	16.52	20.65	24.78	28.91	31.86	32.45
75.0	3.54	4.13	5.31	5.90	7.08	8.85	10.03	10.62	11.21
85.0	0.00	0.59	0.59	1.18	1.18	1.77	1.77	1.77	1.77
90.0	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	153.38	N.A.	31.20
0-30	273.93	N.A.	55.70
0-40	362.64	N.A.	73.70
0-60	460.49	N.A.	93.60
0-80	489.07	N.A.	99.40
0-90	491.89	N.A.	100.00
10-90	454.22	N.A.	92.30
20-40	209.26	N.A.	42.50
20-50	277.77	N.A.	56.50
40-70	118.05	N.A.	24.00
60-80	28.58	N.A.	5.80
70-80	8.38	N.A.	1.70
80-90	2.82	N.A.	0.60
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	491.89	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	37.66
10-20	115.72
20-30	120.55
30-40	88.71
40-50	68.51
50-60	29.33
60-70	20.20
70-80	8.38
80-90	2.82
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

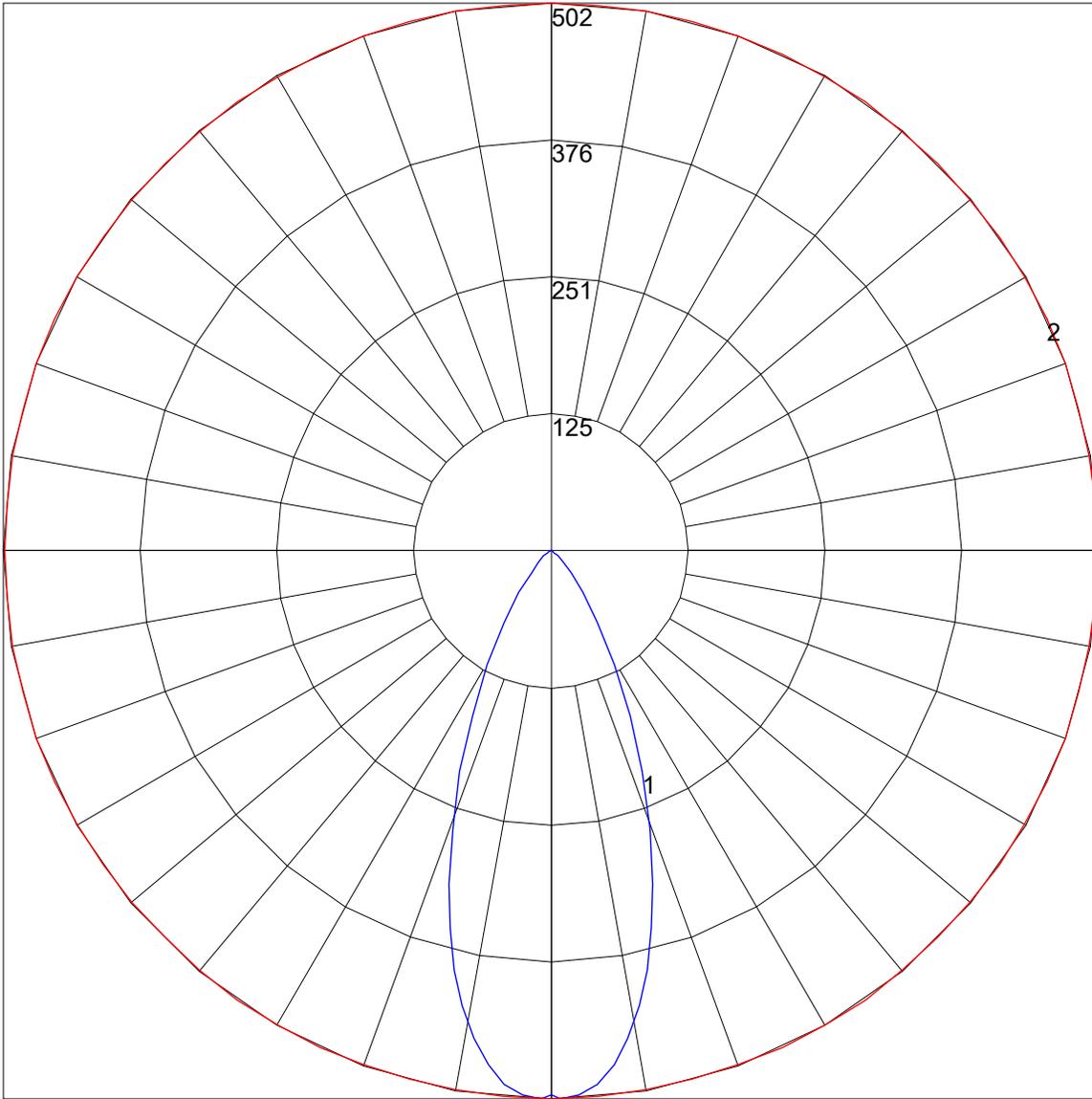
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	81
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56
7	77	66	59	55	76	66	59	54	64	58	54	63	58	54	62	57	53	52
8	73	62	55	50	72	61	55	50	60	54	50	59	54	50	58	53	50	48
9	69	58	51	47	68	58	51	47	56	51	47	56	50	46	55	50	46	45
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42

POLAR GRAPH



Maximum Candela = 501.5 Located At Horizontal Angle = 20, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (20 - 200) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)