

IES File

Performance Summary

The performance data in black text is confirmed through third party testing (see the following Light Laboratory report for details). The performance data in grey text is calculated by Vode. For reference only.



BoxRail LED - Zipper board™ with Black Baffle and Clear Lens, High Output

BoxRail LED, 48", 3500K, Zipper board with black baffle and clear lens, high output
107-BX-X-4-48-X-X-X-X-X-Z-HO-35-BB-X-X-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	30	32	33	34
Total Lumens, 4' rail length (1219mm)	1581	1650	1719	1787
Lumens per foot (305mm)	395	412	430	447
Input Power (W), 4' rail length (1219mm)	53.1	53.1	53.1	53.1
Watts per foot (305mm)	13.3	13.3	13.3	13.3
CRI (>80min., 85 avg.)	-	-	-	-



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BOXRAIL_ZIPPER_HO_3500K_BLACKBAFFLE_032717.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L031700405 (USED TO PREPARE REPORT FOR HIGH OUTPUT)

[TESTLAB] LIGHT LABORATORY, INC.

[ISSUEDATE] 3/23/2017 (ORIGINAL REPORT)

[MANUFAC] VODE LIGHTING

[LUMCAT] 107-BX-48-Z-HO-35-BB-AL

[LUMINAIRE] BOXRAIL LED, 48", 3500K, ZIPPER BOARD,

[MORE] BLACK BAFFLE WITH CLEAR LENS, HIGH OUTPUT (1400MA)

[LAMPPOSITION] 0,0

[LAMPCAT] N/A

[OTHER] DATA FROM ORIGINAL REPORT FACTORED FOR HIGH OUTPUT RATING USING

[MORE] 1.84 LUMEN MULTIPLIER

[MORE] INPUT WATTAGE BASED ON 107 SERIES LUMINAIRE HO TEST (L031700404)

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1719
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	32
Total Luminaire Watts	53.06
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	0.66
Spacing Criterion (Diagonal)	0.86
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	29528	6451	2271
55	1792	1904	1008
65	1976	912	456
75	2234	993	248
85	2948	1474	0

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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	1880.48	1880.48	1880.48	1880.48	1880.48	1880.48	1880.48	1880.48	1880.48	1880.48
1.0	1895.20	1895.20	1895.20	1895.20	1895.20	1895.20	1893.36	1893.36	1893.36	1893.36
3.0	1893.36	1893.36	1893.36	1893.36	1891.52	1891.52	1889.68	1889.68	1887.84	1886.00
5.0	1889.68	1889.68	1887.84	1884.16	1878.64	1871.28	1863.92	1854.72	1845.52	1836.32
7.0	1886.00	1884.16	1876.80	1867.60	1852.88	1836.32	1816.08	1794.00	1771.92	1749.84
9.0	1880.48	1876.80	1863.92	1843.68	1816.08	1784.80	1749.84	1716.72	1683.60	1656.00
11.0	1871.28	1865.76	1845.52	1812.40	1771.92	1724.08	1679.92	1635.76	1598.96	1567.68
13.0	1860.24	1851.04	1821.60	1775.60	1718.56	1661.52	1608.16	1564.00	1527.20	1499.60
15.0	1845.52	1832.64	1790.32	1729.60	1659.68	1595.28	1543.76	1501.44	1468.32	1440.72
17.0	1825.28	1808.72	1753.52	1678.08	1600.80	1534.56	1484.88	1448.08	1414.96	1383.68
19.5	1799.52	1775.60	1703.84	1613.68	1530.88	1466.48	1422.32	1380.00	1341.36	1295.36
22.5	1764.56	1731.44	1639.44	1534.56	1451.76	1392.88	1345.04	1291.68	1223.60	1140.80
25.5	1725.92	1683.60	1571.36	1457.28	1381.84	1321.12	1260.40	1170.24	1059.84	962.32
29.0	1670.72	1615.52	1481.20	1372.64	1299.04	1227.28	1120.56	989.92	879.52	805.92
33.0	1600.80	1527.20	1376.32	1276.96	1197.84	1080.08	929.20	811.44	730.48	651.36
37.5	1505.12	1418.64	1260.40	1164.72	1050.64	875.84	750.72	636.64	531.76	386.40
42.5	1164.72	1111.36	1056.16	1002.80	828.00	682.64	575.92	406.64	257.60	172.96
47.5	31.28	33.12	33.12	36.80	42.32	82.80	191.36	171.12	114.08	88.32
55.0	29.44	27.60	25.76	23.92	22.08	20.24	20.24	20.24	25.76	31.28
65.0	23.92	23.92	22.08	20.24	16.56	14.72	12.88	11.04	11.04	11.04
75.0	16.56	14.72	14.72	12.88	12.88	11.04	9.20	9.20	7.36	7.36
85.0	7.36	7.36	7.36	7.36	5.52	5.52	5.52	5.52	5.52	3.68
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	1880.48	1880.48	1880.48	1880.48	1880.48	1880.48	1880.48	1880.48	1880.48
1.0	1891.52	1891.52	1891.52	1891.52	1891.52	1891.52	1891.52	1891.52	1891.52
3.0	1884.16	1882.32	1882.32	1880.48	1878.64	1878.64	1878.64	1878.64	1878.64
5.0	1827.12	1817.92	1808.72	1801.36	1794.00	1790.32	1786.64	1784.80	1782.96
7.0	1729.60	1713.04	1696.48	1683.60	1672.56	1663.36	1657.84	1654.16	1652.32
9.0	1628.40	1606.32	1587.92	1573.20	1562.16	1552.96	1547.44	1543.76	1543.76
11.0	1543.76	1523.52	1506.96	1492.24	1483.04	1475.68	1470.16	1466.48	1464.64
13.0	1475.68	1457.28	1438.88	1424.16	1413.12	1403.92	1396.56	1392.88	1391.04
15.0	1416.80	1392.88	1372.64	1350.56	1334.00	1317.44	1304.56	1297.20	1293.52
17.0	1352.40	1319.28	1284.32	1249.36	1218.08	1190.48	1170.24	1157.36	1153.68
19.5	1240.16	1183.12	1126.08	1074.56	1032.24	1002.80	980.72	969.68	966.00
22.5	1056.16	984.40	929.20	888.72	859.28	837.20	820.64	813.28	809.60
25.5	885.04	833.52	791.20	756.24	724.96	697.36	675.28	662.40	656.88
29.0	745.20	688.16	627.44	559.36	498.64	447.12	412.16	391.92	384.56
33.0	550.16	437.92	345.92	281.52	239.20	207.92	185.84	174.80	171.12
37.5	274.16	202.40	152.72	117.76	99.36	90.16	86.48	82.80	82.80
42.5	119.60	93.84	82.80	73.60	68.08	62.56	58.88	57.04	55.20
47.5	75.44	66.24	57.04	51.52	46.00	42.32	38.64	36.80	36.80
55.0	33.12	33.12	29.44	25.76	22.08	20.24	18.40	16.56	16.56
65.0	9.20	9.20	9.20	9.20	9.20	7.36	7.36	5.52	5.52
75.0	5.52	5.52	5.52	3.68	3.68	3.68	1.84	1.84	1.84
85.0	3.68	3.68	3.68	1.84	1.84	1.84	1.84	0.00	0.00
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	559.94	N.A.	32.60
0-30	1028.47	N.A.	59.80
0-40	1391.78	N.A.	81.00
0-60	1683.14	N.A.	97.90
0-80	1711.03	N.A.	99.60
0-90	1718.63	N.A.	100.00
10-90	1580.1	N.A.	91.90
20-40	831.84	N.A.	48.40
20-50	1093.29	N.A.	63.60
40-70	308.84	N.A.	18.00
60-80	27.89	N.A.	1.60
70-80	10.42	N.A.	0.60
80-90	7.60	N.A.	0.40
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	1718.63	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	138.54
10-20	421.41
20-30	468.53
30-40	363.31
40-50	261.45
50-60	29.91
60-70	17.48
70-80	10.42
80-90	7.60
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

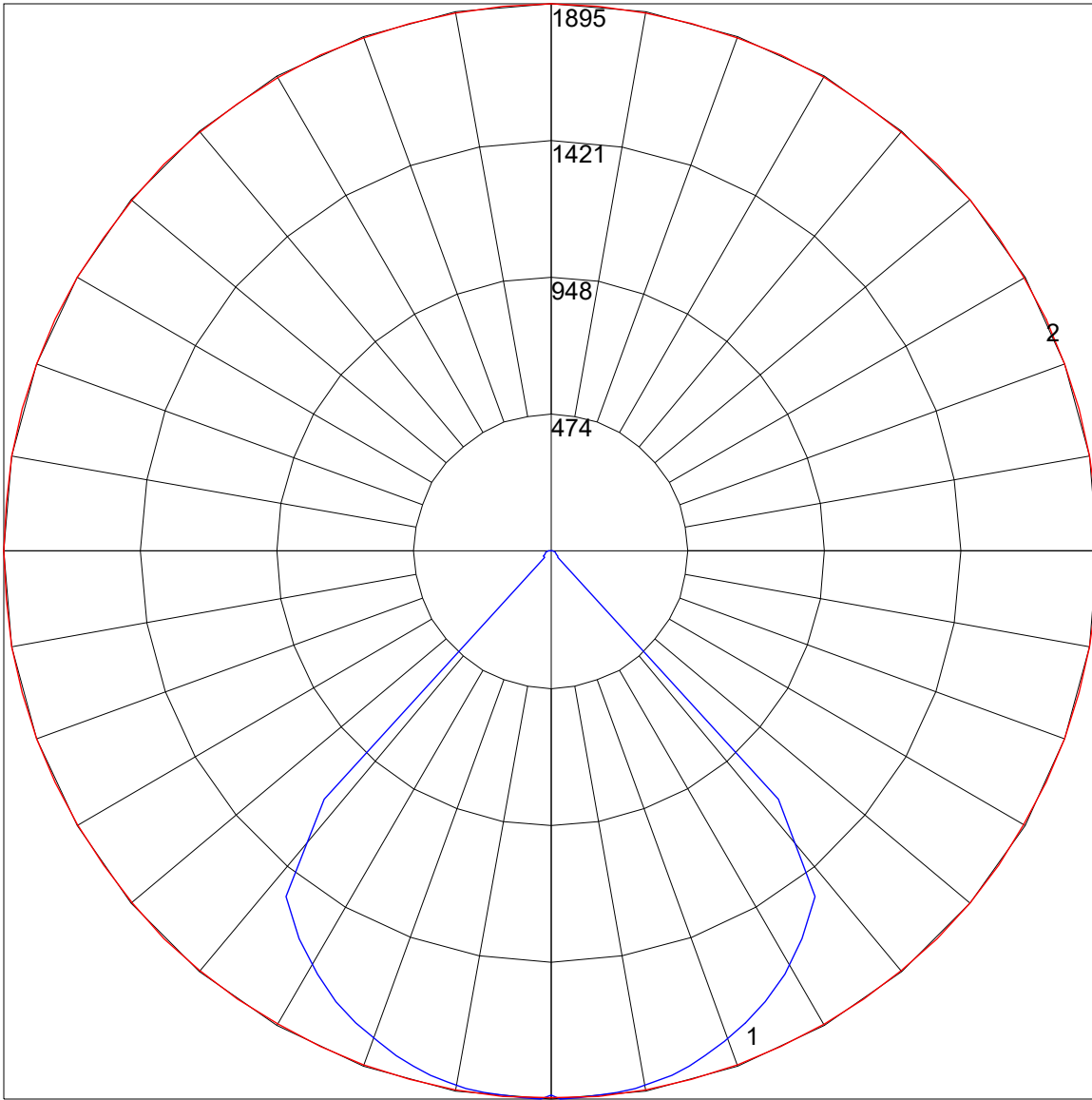
Effective Floor Cavity Reflectance 0.20

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	100
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92	92
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84	84
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77	77
4	95	86	80	76	93	85	79	75	83	78	74	81	77	73	79	75	72	71	71
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65	65
6	84	75	68	63	83	74	68	63	72	67	63	71	66	62	69	65	62	60	60
7	80	69	63	58	78	69	63	58	67	62	58	66	61	57	65	61	57	56	56
8	75	65	58	54	74	64	58	54	63	58	54	62	57	53	61	57	53	52	52
9	71	61	55	50	70	60	54	50	59	54	50	58	53	50	58	53	50	48	48
10	68	57	51	47	67	57	51	47	56	50	47	55	50	46	54	50	46	45	45

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POLAR GRAPH



Maximum Candela = 1895.2 Located At Horizontal Angle = 0, Vertical Angle = 1

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)