

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 White Baffle with Clear Lens, High Output

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	55	57	60	62
Total Lumens, 4' rail length (1219mm)	2882	3007	3132	3257
Lumens per foot (305mm)	720	752	783	814
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_WHITEBAFFLE_032717.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L031700406 (USED TO PREPARE REPORT FOR HIGH OUTPUT RATING)
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUEDATE] 3/23/2017 (ORIGINAL REPORT)
 [MANUFAC] VODE LIGHTING
 [LUMCAT] 107-BX-48-Z-HO-35-WB-AL
 [LUMINAIRE] BOXRAIL LED, 48", 3500K, ZIPPER BOARD,
 [MORE] WHITE BAFFLE WITH CLEAR LENS, HIGH OUTPUT (1400MA)
 [LAMPPOSITION] 0,0
 [LAMPCAT] N/A
 [OTHER] DATA FROM ORIGINAL REPORT FACTORED FOR HIGH OUTPUT RATING
 [MORE] USING 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	3132
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	59
Total Luminaire Watts	53.06
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	0.82
Spacing Criterion (Diagonal)	1.02
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	39022	28210	20533
55	11537	18145	16577
65	12921	13225	13529
75	7943	8688	10177
85	5897	4423	5160

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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	2235.60	2235.60	2235.60	2235.60	2235.60	2235.60	2235.60	2235.60	2235.60	2235.60
1.0	2244.80	2244.80	2244.80	2244.80	2244.80	2235.60	2222.72	2224.56	2239.28	2228.24
3.0	2244.80	2244.80	2244.80	2244.80	2244.80	2235.60	2217.20	2220.88	2231.92	2204.32
5.0	2241.12	2241.12	2239.28	2237.44	2235.60	2231.92	2198.80	2196.96	2196.96	2193.28
7.0	2235.60	2235.60	2230.08	2224.56	2217.20	2209.84	2169.36	2163.84	2160.16	2149.12
9.0	2228.24	2224.56	2219.04	2206.16	2193.28	2178.56	2132.56	2123.36	2110.48	2101.28
11.0	2217.20	2213.52	2200.64	2184.08	2162.00	2138.08	2095.76	2079.20	2060.80	2047.92
13.0	2204.32	2198.80	2180.40	2156.48	2128.88	2099.44	2055.28	2033.20	2007.44	1989.04
15.0	2187.76	2178.56	2154.64	2123.36	2090.24	2053.44	2007.44	1978.00	1946.72	1924.64
17.0	2167.52	2156.48	2127.04	2090.24	2047.92	1990.88	1957.76	1920.96	1880.48	1851.04
19.5	2138.08	2121.52	2084.72	2038.72	1989.04	1930.16	1886.00	1838.16	1794.00	1746.16
22.5	2092.08	2071.84	2024.00	1968.80	1911.76	1858.40	1790.32	1729.60	1681.76	1630.24
25.5	2036.88	2011.12	1952.24	1889.68	1827.12	1764.56	1681.76	1615.52	1565.84	1510.64
29.0	1965.12	1932.00	1863.92	1792.16	1724.08	1644.96	1552.96	1486.72	1424.16	1354.24
33.0	1873.12	1832.64	1753.52	1674.40	1593.44	1499.60	1409.44	1330.32	1240.16	1148.16
37.5	1755.36	1703.84	1615.52	1529.04	1426.00	1319.28	1230.96	1124.24	1012.00	923.68
42.5	1354.24	1345.04	1334.00	1315.60	1214.40	1107.68	997.28	883.20	769.12	662.40
47.5	226.32	235.52	253.92	277.84	309.12	402.96	579.60	614.56	524.40	480.24
55.0	189.52	195.04	206.08	217.12	233.68	253.92	276.00	287.04	290.72	298.08
65.0	156.40	156.40	152.72	150.88	149.04	150.88	154.56	156.40	158.24	160.08
75.0	58.88	58.88	58.88	57.04	57.04	57.04	58.88	60.72	62.56	64.40
85.0	14.72	14.72	14.72	12.88	12.88	12.88	12.88	12.88	12.88	11.04
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	2235.60	2235.60	2235.60	2235.60	2235.60	2235.60	2235.60	2235.60	2235.60
1.0	2233.76	2244.80	2246.64	2248.48	2248.48	2246.64	2248.48	2248.48	2248.48
3.0	2224.56	2235.60	2235.60	2231.92	2230.08	2228.24	2226.40	2226.40	2226.40
5.0	2195.12	2193.28	2185.92	2176.72	2173.04	2169.36	2167.52	2165.68	2165.68
7.0	2143.60	2136.24	2125.20	2114.16	2106.80	2101.28	2099.44	2097.60	2097.60
9.0	2090.24	2077.36	2062.64	2051.60	2042.40	2036.88	2031.36	2029.52	2029.52
11.0	2033.20	2014.80	1998.24	1983.52	1974.32	1965.12	1959.60	1955.92	1955.92
13.0	1966.96	1946.72	1926.48	1908.08	1893.36	1880.48	1873.12	1867.60	1867.60
15.0	1893.36	1871.28	1843.68	1817.92	1797.68	1779.28	1768.24	1760.88	1759.04
17.0	1814.24	1781.12	1748.00	1716.72	1690.96	1674.40	1661.52	1654.16	1652.32
19.5	1709.36	1667.04	1628.40	1593.44	1567.68	1549.28	1534.56	1527.20	1525.36
22.5	1578.72	1532.72	1490.40	1451.76	1422.32	1398.40	1381.84	1370.80	1367.12
25.5	1453.60	1392.88	1341.36	1293.52	1254.88	1221.76	1197.84	1183.12	1177.60
29.0	1276.96	1207.04	1140.80	1083.76	1039.60	1008.32	984.40	969.68	966.00
33.0	1063.52	984.40	918.16	861.12	813.28	776.48	748.88	732.32	726.80
37.5	831.68	736.00	669.76	621.92	590.64	572.24	561.20	555.68	553.84
42.5	577.76	537.28	513.36	494.96	482.08	471.04	463.68	458.16	456.32
47.5	454.48	434.24	417.68	404.80	393.76	386.40	380.88	375.36	375.36
55.0	303.60	299.92	294.40	287.04	283.36	279.68	276.00	274.16	272.32
65.0	161.92	163.76	165.60	165.60	165.60	165.60	165.60	165.60	163.76
75.0	66.24	68.08	71.76	73.60	73.60	75.44	75.44	75.44	75.44
85.0	11.04	11.04	11.04	12.88	12.88	12.88	12.88	12.88	12.88
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	717.45	N.A.	22.90
0-30	1392.75	N.A.	44.50
0-40	2000.58	N.A.	63.90
0-60	2768.88	N.A.	88.40
0-80	3086.38	N.A.	98.50
0-90	3132.15	N.A.	100.00
10-90	2963.84	N.A.	94.60
20-40	1283.13	N.A.	41.00
20-50	1837.53	N.A.	58.70
40-70	970.00	N.A.	31.00
60-80	317.50	N.A.	10.10
70-80	115.80	N.A.	3.70
80-90	45.77	N.A.	1.50
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	3132.15	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	168.30
10-20	549.15
20-30	675.30
30-40	607.83
40-50	554.41
50-60	213.90
60-70	201.70
70-80	115.80
80-90	45.77
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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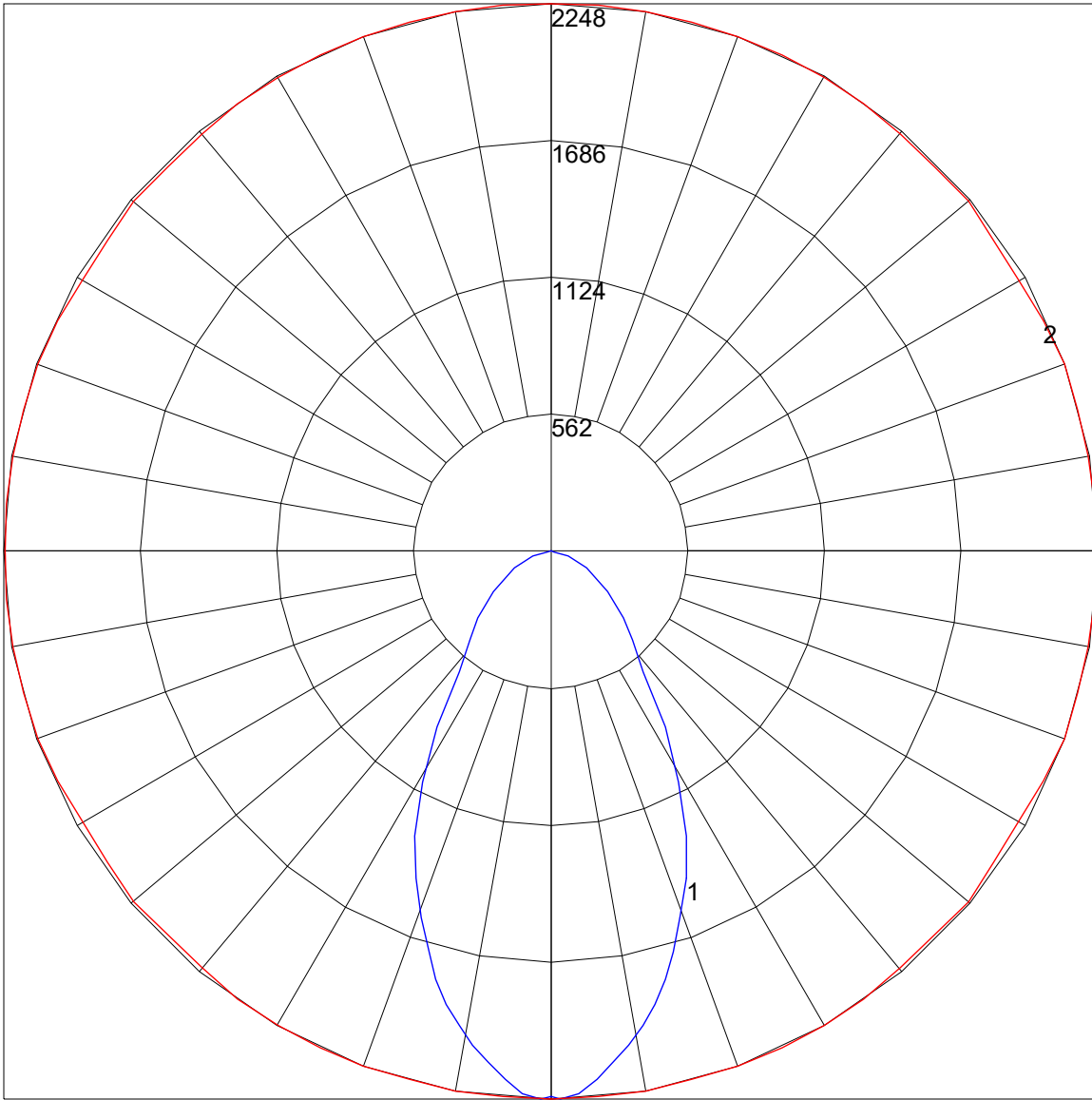
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68
4	89	79	71	66	87	77	71	65	75	69	64	73	68	64	71	66	63	61
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55
6	77	66	58	53	76	65	58	53	63	57	52	62	56	52	60	55	51	50
7	73	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	40	38
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35

POLAR GRAPH



Maximum Candela = 2248.48 Located At Horizontal Angle = 65, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (65 - 245) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)