

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.



DoubleBox LED - Zipper board™ with Clear Lens (up) and White Baffle (down), High Output

DoubleBox LED, 48", 3500K, Zipper board with clear lens (up) and white baffle (down), high output
107-DB-X-4-48-X-X-X-X-X-Z-HO-35-0WB-X-X-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	77	80	83	87
Total Lumens, 4' rail length (1219mm)	8094	8445	8797	9149
Lumens per foot (305mm)	2023	2111	2199	2287
Uplight Lumens per foot (305mm)	1353	1412	1471	1530
Downlight Lumens per foot (305mm)	670	699	729	758
Input Power (W), 4' rail length (1219mm)	106.1	106.1	106.1	106.1
Watts per foot (305mm)	26.6	26.6	26.6	26.6
CRI (>80min., 85 avg.)	-	-	-	-



IES INDOOR REPORT

PHOTOMETRIC FILENAME : DOUBLEBOX_ZIPPER_HO_CLEARLENSUP-WHITEBAFFLEDOWN_3500K_032717.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L031700416 (USED TO PREPARE REPORT FOR HIGH OUTPUT RATING)
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUEDATE] 3/20/2017 (ORIGINAL REPORT)
 [MANUFAC] VODE LIGHTING
 [LUMCAT] 107-DB-48-Z-HO-35-0WB-AL
 [LUMINAIRE] DOUBLEBOX LED, 48", 3500K, ZIPPER BOARD,
 [MORE] CLEAR LENS UP/WHITE BAFFLE DOWN, HIGH OUTPUT (1400MA)
 [LAMPPOSITION] 0,0
 [LAMP] 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	8797
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	106.12
Ballast Factor	1.00
CIE Type	Semi-Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.08 ft
Luminous Width (90-270)	3.77 ft
Luminous Height	0.21 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3276	8908	18984
55	2481	4628	14833
65	1897	2391	11510
75	563	879	7345
85	121	166	2300

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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	2287.12	2287.12	2287.12	2287.12	2287.12	2287.12	2287.12	2287.12	2287.12	2287.12
5	2279.76	2266.88	2252.16	2239.28	2226.40	2213.52	2200.64	2189.60	2178.56	2169.36
10	2255.84	2228.24	2202.48	2176.72	2150.96	2127.04	2104.96	2077.36	2051.60	2027.68
15	2215.36	2173.04	2132.56	2093.92	2055.28	2012.96	1972.48	1935.68	1898.88	1862.08
20	2147.28	2093.92	2044.24	1994.56	1935.68	1880.48	1830.80	1779.28	1733.28	1683.60
25	2053.44	1990.88	1933.84	1863.92	1794.00	1725.92	1657.84	1595.28	1514.32	1437.04
30	1944.88	1871.28	1799.52	1720.40	1639.44	1558.48	1466.48	1363.44	1269.60	1196.00
35	1812.40	1735.12	1650.48	1560.32	1466.48	1363.44	1245.68	1140.80	1048.80	943.92
40	1549.28	1462.80	1343.20	1223.60	1140.80	1094.80	1019.36	908.96	782.00	671.60
45	235.52	294.40	425.04	542.80	610.88	605.36	621.92	625.60	563.04	511.52
50	204.24	213.44	228.16	244.72	264.96	314.64	340.40	369.84	388.24	379.04
55	189.52	195.04	202.40	213.44	224.48	241.04	257.60	266.80	274.16	276.00
60	178.48	178.48	178.48	178.48	180.32	185.84	191.36	196.88	200.56	202.40
65	149.04	145.36	139.84	134.32	132.48	130.64	134.32	136.16	139.84	143.52
70	90.16	90.16	86.48	82.80	82.80	82.80	84.64	86.48	90.16	93.84
75	44.16	42.32	44.16	44.16	44.16	44.16	46.00	46.00	49.68	51.52
80	25.76	23.92	22.08	22.08	22.08	22.08	20.24	22.08	22.08	23.92
85	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.20
90	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84
95	11.04	11.04	9.20	9.20	9.20	9.20	9.20	9.20	9.20	11.04
100	25.76	22.08	22.08	22.08	22.08	22.08	22.08	22.08	22.08	27.60
105	36.80	46.00	34.96	44.16	34.96	46.00	57.04	66.24	121.44	158.24
110	253.92	239.20	189.52	217.12	261.28	310.96	334.88	406.64	454.48	478.40
115	706.56	695.52	623.76	632.96	673.44	677.12	684.48	691.84	702.88	715.76
120	934.72	932.88	931.04	923.68	916.32	910.80	910.80	918.16	927.36	934.72
125	1133.44	1131.60	1129.76	1131.60	1131.60	1129.76	1131.60	1129.76	1135.28	1140.80
130	1313.76	1311.92	1311.92	1311.92	1313.76	1313.76	1317.44	1319.28	1319.28	1321.12
135	1483.04	1481.20	1479.36	1479.36	1481.20	1483.04	1481.20	1488.56	1486.72	1490.40
140	1632.08	1630.24	1628.40	1628.40	1628.40	1632.08	1630.24	1632.08	1633.92	1633.92
145	1762.72	1760.88	1760.88	1760.88	1759.04	1760.88	1762.72	1760.88	1760.88	1760.88
150	1874.96	1873.12	1873.12	1871.28	1871.28	1871.28	1873.12	1871.28	1871.28	1871.28
155	1968.80	1966.96	1966.96	1965.12	1965.12	1963.28	1963.28	1966.96	1963.28	1963.28
160	2044.24	2042.40	2042.40	2042.40	2040.56	2040.56	2040.56	2040.56	2042.40	2040.56
165	2104.96	2103.12	2101.28	2101.28	2101.28	2099.44	2099.44	2099.44	2101.28	2101.28
170	2147.28	2147.28	2145.44	2145.44	2143.60	2143.60	2145.44	2143.60	2141.76	2141.76
175	2171.20	2171.20	2169.36	2169.36	2167.52	2167.52	2167.52	2167.52	2165.68	2165.68
180	2174.88	2174.88	2174.88	2174.88	2174.88	2174.88	2174.88	2174.88	2174.88	2174.88

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	2287.12	2287.12	2287.12	2287.12	2287.12	2287.12	2287.12	2287.12	2287.12
5	2158.32	2150.96	2143.60	2136.24	2130.72	2127.04	2121.52	2121.52	2121.52
10	2005.60	1987.20	1972.48	1955.92	1944.88	1935.68	1930.16	1926.48	1928.32
15	1828.96	1797.68	1770.08	1748.00	1729.60	1716.72	1707.52	1702.00	1703.84
20	1628.40	1573.20	1523.52	1481.20	1448.08	1420.48	1402.08	1389.20	1389.20
25	1367.12	1310.08	1258.56	1216.24	1181.28	1153.68	1135.28	1120.56	1118.72
30	1126.08	1059.84	980.72	916.32	864.80	828.00	805.92	783.84	782.00
35	831.68	730.48	691.84	662.40	640.32	620.08	605.36	592.48	586.96
40	618.24	575.92	548.32	528.08	511.52	500.48	491.28	485.76	482.08
45	483.92	461.84	443.44	428.72	419.52	410.32	404.80	399.28	397.44
50	379.04	364.32	353.28	345.92	336.72	331.20	327.52	323.84	320.16
55	281.52	277.84	276.00	272.32	266.80	264.96	263.12	261.28	257.60
60	206.08	206.08	209.76	209.76	207.92	206.08	206.08	204.24	202.40

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CANDELA TABULATION - (Cont.)

65	150.88	150.88	152.72	156.40	154.56	152.72	152.72	150.88	152.72
70	95.68	99.36	103.04	104.88	106.72	106.72	106.72	104.88	106.72
75	55.20	58.88	60.72	62.56	64.40	64.40	64.40	64.40	64.40
80	25.76	25.76	27.60	29.44	31.28	31.28	31.28	31.28	31.28
85	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.20
90	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84
95	11.04	11.04	16.56	18.40	18.40	20.24	27.60	29.44	36.80
100	47.84	68.08	108.56	125.12	138.00	139.84	138.00	139.84	139.84
105	226.32	281.52	307.28	307.28	307.28	312.80	310.96	309.12	314.64
110	502.32	511.52	515.20	513.36	515.20	520.72	522.56	518.88	518.88
115	721.28	721.28	728.64	730.48	724.96	715.76	704.72	704.72	691.84
120	940.24	942.08	947.60	949.44	949.44	947.60	945.76	942.08	942.08
125	1140.80	1144.48	1148.16	1148.16	1144.48	1144.48	1144.48	1142.64	1135.28
130	1322.96	1328.48	1326.64	1324.80	1324.80	1322.96	1322.96	1319.28	1315.60
135	1486.72	1488.56	1490.40	1486.72	1484.88	1486.72	1484.88	1483.04	1481.20
140	1633.92	1633.92	1633.92	1630.24	1630.24	1632.08	1630.24	1628.40	1626.56
145	1760.88	1762.72	1760.88	1759.04	1759.04	1759.04	1760.88	1759.04	1759.04
150	1871.28	1871.28	1869.44	1869.44	1871.28	1869.44	1871.28	1867.60	1869.44
155	1965.12	1963.28	1961.44	1963.28	1961.44	1961.44	1961.44	1959.60	1961.44
160	2040.56	2038.72	2040.56	2038.72	2038.72	2040.56	2038.72	2036.88	2038.72
165	2099.44	2097.60	2097.60	2097.60	2099.44	2097.60	2097.60	2097.60	2099.44
170	2141.76	2141.76	2141.76	2141.76	2139.92	2139.92	2139.92	2139.92	2141.76
175	2165.68	2165.68	2165.68	2165.68	2165.68	2165.68	2165.68	2167.52	2167.52
180	2174.88	2174.88	2174.88	2174.88	2174.88	2174.88	2174.88	2174.88	2174.88

IES INDOOR REPORT**PHOTOMETRIC FILENAME : DOUBLEBOX_ZIPPER_HO_CLEARLENSUP-WHITEBAFFLEDOWN_3500K_032717.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	734.91	N.A.	8.40
0-30	1417.38	N.A.	16.10
0-40	2067.52	N.A.	23.50
0-60	2698.32	N.A.	30.70
0-80	2901.98	N.A.	33.00
0-90	2914.49	N.A.	33.10
10-90	2709.8	N.A.	30.80
20-40	1332.61	N.A.	15.10
20-50	1735.19	N.A.	19.70
40-70	774.55	N.A.	8.80
60-80	203.66	N.A.	2.30
70-80	59.91	N.A.	0.70
80-90	12.51	N.A.	0.10
90-110	244.13	N.A.	2.80
90-120	921.22	N.A.	10.50
90-130	1934.41	N.A.	22.00
90-150	4178.6	N.A.	47.50
90-180	5882.8	N.A.	66.90
110-180	5638.67	N.A.	64.10
0-180	8797.29	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	204.68
10-20	530.23
20-30	682.46
30-40	650.14
40-50	402.58
50-60	228.22
60-70	143.75
70-80	59.91
80-90	12.51
90-100	26.48
100-110	217.65
110-120	677.09
120-130	1013.19
130-140	1143.52
140-150	1100.67
150-160	905.26
160-170	592.86
170-180	206.08

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

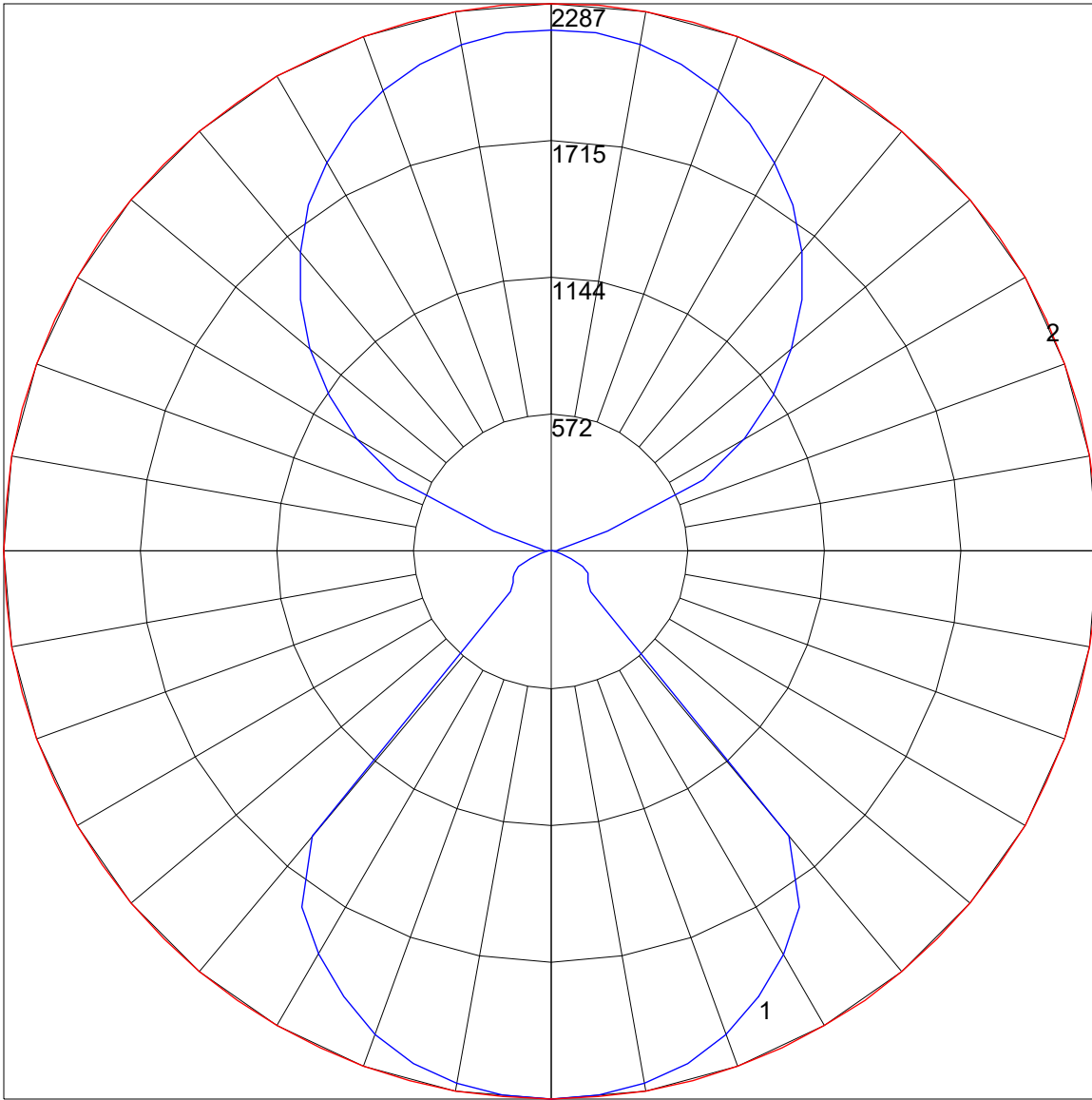
Effective Floor Cavity Reflectance 0.20

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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	33
1	95	91	88	85	86	82	80	77	66	64	62	51	50	49	37	37	36	30
2	87	81	75	71	79	73	69	65	59	56	53	46	44	42	34	33	32	26
3	80	72	65	60	72	65	60	55	53	49	46	42	39	37	31	30	28	24
4	74	64	57	52	67	58	52	48	48	43	40	38	35	33	29	27	25	21
5	68	58	50	45	62	53	46	42	43	39	35	34	31	29	26	24	23	19
6	63	52	45	39	57	48	41	37	39	35	31	32	28	26	24	22	21	18
7	59	47	40	35	53	43	37	33	36	31	28	29	26	23	22	20	19	16
8	54	43	36	31	49	40	33	29	33	28	25	27	24	21	21	19	17	15
9	51	40	33	28	46	36	30	26	30	26	23	25	22	19	19	17	16	14
10	48	36	30	25	43	34	28	24	28	24	21	23	20	18	18	16	15	13

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POLAR GRAPH



Maximum Candela = 2287.12 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.)