

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 Diffuse Lens (up) and White Baffle (down), High Output

DoubleBox LED, 48", 3500K, Zipper board with diffuse lens (up) and white baffle (down), high output
 107-DB-X-4-48-X-X-X-X-X-Z-HO-35-1WB-X-X-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	69	72	75	78
Total Lumens, 4' rail length (1219mm)	7313	7631	7949	8266
Lumens per foot (305mm)	1828	1908	1987	2067
Uplight Lumens per foot (305mm)	1159	1209	1260	1310
Downlight Lumens per foot (305mm)	669	698	727	756
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_DIFFUSELENSUP-WHITEBAFFLEDOWN_3500K_170327.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L031700417R02 (USED TO PREPARE REPORT FOR HIGH OUTPUT RATING)
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUEDATE] 4/19/2017 (ORIGINAL REPORT)
 [MANUFAC] VODE LIGHTING
 [LUMCAT] 107-DB-48-Z-HO-35-1WB-AL
 [LUMINAIRE] DOUBLEBOX LED, 48", 3500K, ZIPPER BOARD,
 [MORE] DIFFUSE 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	7949
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
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	3737	9036	18720
55	2409	4597	14410
65	1803	2360	11233
75	540	848	7345
85	97	133	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	2266.88	2266.88	2266.88	2266.88	2266.88	2266.88	2266.88	2266.88	2266.88	2266.88
5	2263.20	2250.32	2239.28	2226.40	2215.36	2204.32	2193.28	2184.08	2174.88	2165.68
10	2237.44	2213.52	2191.44	2169.36	2147.28	2127.04	2106.80	2079.20	2055.28	2033.20
15	2191.44	2154.64	2121.52	2088.40	2055.28	2014.80	1976.16	1941.20	1906.24	1869.44
20	2123.36	2079.20	2036.88	1990.88	1935.68	1884.16	1834.48	1781.12	1733.28	1683.60
25	2035.04	1981.68	1932.00	1865.76	1799.52	1729.60	1659.68	1595.28	1518.00	1446.24
30	1926.48	1865.76	1805.04	1725.92	1644.96	1560.32	1472.00	1374.48	1284.32	1205.20
35	1799.52	1733.28	1656.00	1569.52	1472.00	1368.96	1260.40	1151.84	1054.32	949.44
40	1444.40	1372.64	1275.12	1188.64	1137.12	1109.52	1032.24	916.32	796.72	688.16
45	268.64	312.80	415.84	529.92	612.72	631.12	645.84	642.16	572.24	518.88
50	200.56	211.60	226.32	242.88	264.96	322.00	356.96	375.36	390.08	379.04
55	184.00	189.52	198.72	209.76	222.64	241.04	257.60	266.80	272.32	274.16
60	172.96	172.96	174.80	176.64	178.48	185.84	189.52	195.04	198.72	200.56
65	141.68	141.68	136.16	130.64	130.64	128.80	132.48	134.32	138.00	141.68
70	88.32	86.48	84.64	80.96	80.96	80.96	80.96	84.64	88.32	92.00
75	42.32	42.32	42.32	42.32	42.32	42.32	44.16	44.16	47.84	49.68
80	22.08	22.08	22.08	22.08	20.24	20.24	20.24	20.24	20.24	22.08
85	7.36	7.36	9.20	9.20	7.36	9.20	7.36	7.36	9.20	7.36
90	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84
95	16.56	16.56	16.56	16.56	16.56	16.56	16.56	18.40	22.08	27.60
100	69.92	68.08	66.24	68.08	71.76	77.28	84.64	97.52	108.56	123.28
105	189.52	178.48	180.32	187.68	191.36	198.72	206.08	215.28	228.16	239.20
110	336.72	334.88	320.16	320.16	327.52	334.88	342.24	349.60	358.80	369.84
115	493.12	493.12	487.60	478.40	476.56	480.24	489.44	496.80	507.84	520.72
120	655.04	655.04	656.88	656.88	647.68	649.52	653.20	662.40	666.08	671.60
125	828.00	828.00	829.84	831.68	833.52	835.36	839.04	842.72	848.24	851.92
130	1006.48	1004.64	1006.48	1008.32	1008.32	1010.16	1015.68	1017.52	1019.36	1021.20
135	1184.96	1184.96	1183.12	1184.96	1184.96	1186.80	1190.48	1196.00	1196.00	1199.68
140	1356.08	1356.08	1354.24	1354.24	1357.92	1361.60	1359.76	1363.44	1367.12	1368.96
145	1519.84	1518.00	1516.16	1518.00	1518.00	1519.84	1523.52	1521.68	1525.36	1527.20
150	1667.04	1665.20	1665.20	1663.36	1665.20	1665.20	1668.88	1668.88	1670.72	1672.56
155	1795.84	1794.00	1794.00	1792.16	1794.00	1794.00	1795.84	1801.36	1799.52	1799.52
160	1904.40	1900.72	1902.56	1902.56	1900.72	1902.56	1904.40	1904.40	1906.24	1908.08
165	1990.88	1987.20	1987.20	1989.04	1989.04	1987.20	1985.36	1987.20	1989.04	1990.88
170	2051.60	2049.76	2049.76	2047.92	2047.92	2049.76	2049.76	2047.92	2047.92	2047.92
175	2090.24	2088.40	2088.40	2086.56	2086.56	2086.56	2084.72	2084.72	2084.72	2084.72
180	2101.28	2101.28	2101.28	2101.28	2101.28	2101.28	2101.28	2101.28	2101.28	2101.28

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	2266.88	2266.88	2266.88	2266.88	2266.88	2266.88	2266.88	2266.88	2266.88
5	2156.48	2149.12	2143.60	2138.08	2132.56	2128.88	2125.20	2125.20	2123.36
10	2012.96	1994.56	1979.84	1965.12	1954.08	1944.88	1939.36	1937.52	1937.52
15	1834.48	1803.20	1773.76	1751.68	1733.28	1718.56	1709.36	1703.84	1705.68
20	1630.24	1578.72	1532.72	1494.08	1460.96	1437.04	1420.48	1407.60	1409.44
25	1381.84	1321.12	1267.76	1223.60	1186.80	1157.36	1137.12	1120.56	1118.72
30	1129.76	1059.84	986.24	921.84	872.16	829.84	800.40	782.00	783.84
35	844.56	748.88	702.88	671.60	647.68	625.60	609.04	598.00	592.48
40	629.28	579.60	550.16	528.08	511.52	500.48	489.44	482.08	478.40
45	487.60	461.84	441.60	425.04	414.00	406.64	399.28	393.76	391.92
50	377.20	362.48	349.60	340.40	331.20	323.84	320.16	316.48	314.64
55	277.84	274.16	270.48	266.80	261.28	257.60	255.76	253.92	250.24
60	202.40	202.40	204.24	204.24	202.40	200.56	200.56	198.72	196.88

IES INDOOR REPORT

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CANDELA TABULATION - (Cont.)

65	147.20	147.20	149.04	150.88	152.72	150.88	149.04	147.20	149.04
70	93.84	97.52	101.20	103.04	103.04	104.88	103.04	103.04	104.88
75	53.36	57.04	58.88	60.72	62.56	64.40	64.40	62.56	64.40
80	23.92	25.76	27.60	27.60	29.44	31.28	31.28	31.28	31.28
85	7.36	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	3.68	5.52	7.36
95	33.12	44.16	49.68	55.20	64.40	73.60	75.44	79.12	80.96
100	132.48	154.56	158.24	160.08	163.76	167.44	169.28	169.28	172.96
105	250.24	263.12	270.48	272.32	274.16	279.68	277.84	277.84	283.36
110	380.88	391.92	397.44	399.28	401.12	402.96	404.80	404.80	404.80
115	529.92	535.44	537.28	539.12	540.96	540.96	540.96	542.80	542.80
120	684.48	667.92	691.84	693.68	690.00	682.64	673.44	666.08	669.76
125	851.92	855.60	859.28	859.28	859.28	861.12	861.12	861.12	857.44
130	1024.88	1030.40	1032.24	1032.24	1032.24	1032.24	1034.08	1034.08	1032.24
135	1199.68	1203.36	1205.20	1205.20	1207.04	1210.72	1210.72	1210.72	1210.72
140	1368.96	1372.64	1374.48	1374.48	1374.48	1378.16	1378.16	1378.16	1380.00
145	1529.04	1534.56	1534.56	1536.40	1536.40	1538.24	1540.08	1540.08	1541.92
150	1674.40	1678.08	1679.92	1678.08	1681.76	1681.76	1685.44	1683.60	1689.12
155	1805.04	1805.04	1803.20	1805.04	1805.04	1808.72	1810.56	1808.72	1812.40
160	1908.08	1908.08	1909.92	1908.08	1909.92	1913.60	1913.60	1913.60	1917.28
165	1990.88	1989.04	1989.04	1992.72	1996.40	1994.56	1994.56	1996.40	2000.08
170	2047.92	2049.76	2051.60	2051.60	2051.60	2051.60	2051.60	2053.44	2055.28
175	2084.72	2084.72	2086.56	2086.56	2086.56	2088.40	2088.40	2090.24	2090.24
180	2101.28	2101.28	2101.28	2101.28	2101.28	2101.28	2101.28	2101.28	2101.28

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	735.09	N.A.	9.20
0-30	1419.19	N.A.	17.90
0-40	2070.51	N.A.	26.00
0-60	2698.02	N.A.	33.90
0-80	2897.04	N.A.	36.40
0-90	2909.04	N.A.	36.60
10-90	2704.73	N.A.	34.00
20-40	1335.42	N.A.	16.80
20-50	1737.56	N.A.	21.90
40-70	768.27	N.A.	9.70
60-80	199.03	N.A.	2.50
70-80	58.27	N.A.	0.70
80-90	11.99	N.A.	0.20
90-110	306.59	N.A.	3.90
90-120	817.31	N.A.	10.30
90-130	1573.98	N.A.	19.80
90-150	3451.85	N.A.	43.40
90-180	5039.49	N.A.	63.40
110-180	4732.9	N.A.	59.50
0-180	7948.53	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	204.31
10-20	530.78
20-30	684.10
30-40	651.32
40-50	402.14
50-60	225.37
60-70	140.76
70-80	58.27
80-90	11.99
90-100	54.21
100-110	252.38
110-120	510.72
120-130	756.66
130-140	923.28
140-150	954.59
150-160	828.66
160-170	560.92
170-180	198.05

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

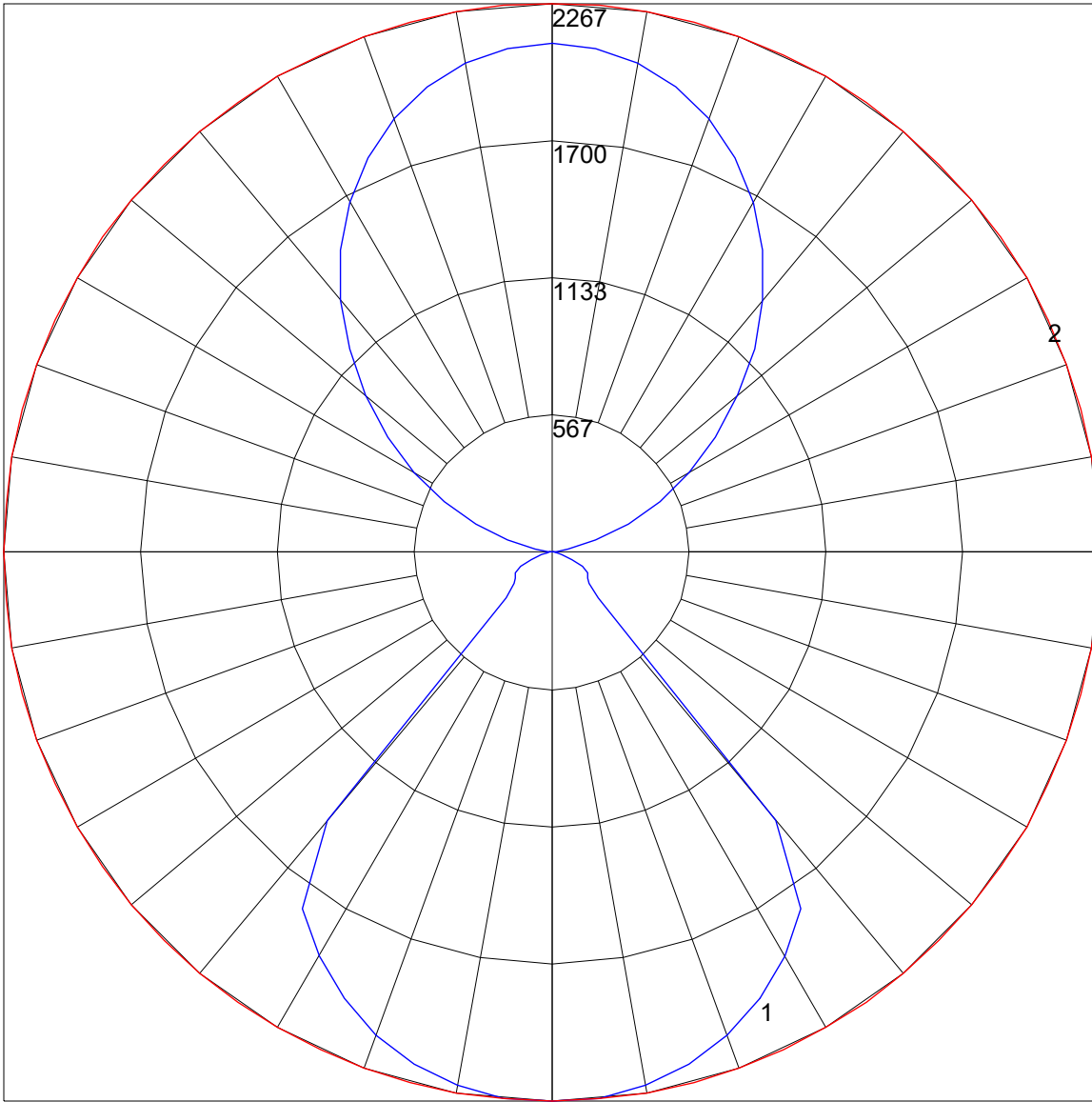
Effective Floor Cavity Reflectance 0.20

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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	96	92	89	85	87	84	81	78	68	66	64	54	52	51	40	40	39	33
2	88	82	76	72	80	74	70	66	61	58	55	48	46	44	37	36	34	29
3	81	73	66	61	73	66	61	56	55	51	48	44	41	39	34	32	31	26
4	75	65	58	53	68	60	54	49	49	45	42	40	37	34	31	29	27	24
5	69	59	51	46	63	54	47	43	45	40	37	36	33	31	28	26	25	21
6	64	53	46	40	58	49	42	38	41	36	33	33	30	27	26	24	22	19
7	59	48	41	36	54	44	38	34	37	33	29	31	27	25	24	22	20	18
8	55	44	37	32	50	41	34	30	34	30	26	28	25	22	23	20	19	16
9	52	40	34	29	47	37	31	27	32	27	24	26	23	21	21	19	17	15
10	48	37	31	26	44	35	29	25	29	25	22	24	21	19	20	18	16	14

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POLAR GRAPH



Maximum Candela = 2266.88 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.)