

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), Low Output

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	72	75	78	81
Total Lumens, 4' rail length (1219mm)	2199	2295	2391	2486
Lumens per foot (305mm)	550	574	598	622
Uplight Lumens per foot (305mm)	368	384	400	416
Downlight Lumens per foot (305mm)	182	190	198	206
Input Power (W), 4' rail length (1219mm)	30.9	30.9	30.9	30.9
Watts per foot (305mm)	7.8	7.8	7.8	7.8
CRI (>80min., 85 avg.)	-	-	-	-



IES INDOOR REPORT

PHOTOMETRIC FILENAME : DOUBLEBOX_ZIPPER_LO_CLEARLENSUP-WHITEBAFFLEDOWN_3500K_032717.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L031700416 (USED TO PREPARE REPORT FOR LOW OUTPUT RATING)
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUEDATE] 3/20/2017 (ORIGINAL REPORT)
 [MANUFAC] VODE LIGHTING
 [LUMCAT] 107-DB-48-Z-LO-35-0WB-AL
 [LUMINAIRE] DOUBLEBOX LED, 48", 3500K, ZIPPER BOARD,
 [MORE] CLEAR LENS UP/WHITE BAFFLE DOWN, LOW OUTPUT (350MA)
 [LAMPPOSITION] 0,0
 [LAMP] N/A
 [OTHER] DATA FROM ORIGINAL REPORT FACTORED FOR LOW OUTPUT RATING
 [MORE] USING 0.50 LUMEN MULTIPLIER
 [MORE] INPUT WATTAGE BASED ON 107 SERIES LUMINAIRE LO TEST (L031700402)
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2391
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	30.92
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	890	2421	5159
55	674	1258	4031
65	515	650	3128
75	153	239	1996
85	33	45	625

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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	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5
5	619.5	616.0	612.0	608.5	605.0	601.5	598.0	595.0	592.0	589.5
10	613.0	605.5	598.5	591.5	584.5	578.0	572.0	564.5	557.5	551.0
15	602.0	590.5	579.5	569.0	558.5	547.0	536.0	526.0	516.0	506.0
20	583.5	569.0	555.5	542.0	526.0	511.0	497.5	483.5	471.0	457.5
25	558.0	541.0	525.5	506.5	487.5	469.0	450.5	433.5	411.5	390.5
30	528.5	508.5	489.0	467.5	445.5	423.5	398.5	370.5	345.0	325.0
35	492.5	471.5	448.5	424.0	398.5	370.5	338.5	310.0	285.0	256.5
40	421.0	397.5	365.0	332.5	310.0	297.5	277.0	247.0	212.5	182.5
45	64.0	80.0	115.5	147.5	166.0	164.5	169.0	170.0	153.0	139.0
50	55.5	58.0	62.0	66.5	72.0	85.5	92.5	100.5	105.5	103.0
55	51.5	53.0	55.0	58.0	61.0	65.5	70.0	72.5	74.5	75.0
60	48.5	48.5	48.5	48.5	49.0	50.5	52.0	53.5	54.5	55.0
65	40.5	39.5	38.0	36.5	36.0	35.5	36.5	37.0	38.0	39.0
70	24.5	24.5	23.5	22.5	22.5	22.5	23.0	23.5	24.5	25.5
75	12.0	11.5	12.0	12.0	12.0	12.0	12.5	12.5	13.5	14.0
80	7.0	6.5	6.0	6.0	6.0	6.0	5.5	6.0	6.0	6.5
85	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
90	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
95	3.0	3.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.0
100	7.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	7.5
105	10.0	12.5	9.5	12.0	9.5	12.5	15.5	18.0	33.0	43.0
110	69.0	65.0	51.5	59.0	71.0	84.5	91.0	110.5	123.5	130.0
115	192.0	189.0	169.5	172.0	183.0	184.0	186.0	188.0	191.0	194.5
120	254.0	253.5	253.0	251.0	249.0	247.5	247.5	249.5	252.0	254.0
125	308.0	307.5	307.0	307.5	307.5	307.0	307.5	307.0	308.5	310.0
130	357.0	356.5	356.5	356.5	357.0	357.0	358.0	358.5	358.5	359.0
135	403.0	402.5	402.0	402.0	402.5	403.0	402.5	404.5	404.0	405.0
140	443.5	443.0	442.5	442.5	442.5	443.5	443.0	443.5	444.0	444.0
145	479.0	478.5	478.5	478.5	478.0	478.5	479.0	478.5	478.5	478.5
150	509.5	509.0	509.0	508.5	508.5	508.5	509.0	508.5	508.5	508.5
155	535.0	534.5	534.5	534.0	534.0	533.5	533.5	534.5	533.5	533.5
160	555.5	555.0	555.0	555.0	554.5	554.5	554.5	554.5	555.0	554.5
165	572.0	571.5	571.0	571.0	571.0	570.5	570.5	570.5	571.0	571.0
170	583.5	583.5	583.0	583.0	582.5	582.5	583.0	582.5	582.0	582.0
175	590.0	590.0	589.5	589.5	589.0	589.0	589.0	589.0	588.5	588.5
180	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0

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	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5	621.5
5	586.5	584.5	582.5	580.5	579.0	578.0	576.5	576.5	576.5
10	545.0	540.0	536.0	531.5	528.5	526.0	524.5	523.5	524.0
15	497.0	488.5	481.0	475.0	470.0	466.5	464.0	462.5	463.0
20	442.5	427.5	414.0	402.5	393.5	386.0	381.0	377.5	377.5
25	371.5	356.0	342.0	330.5	321.0	313.5	308.5	304.5	304.0
30	306.0	288.0	266.5	249.0	235.0	225.0	219.0	213.0	212.5
35	226.0	198.5	188.0	180.0	174.0	168.5	164.5	161.0	159.5
40	168.0	156.5	149.0	143.5	139.0	136.0	133.5	132.0	131.0
45	131.5	125.5	120.5	116.5	114.0	111.5	110.0	108.5	108.0
50	103.0	99.0	96.0	94.0	91.5	90.0	89.0	88.0	87.0
55	76.5	75.5	75.0	74.0	72.5	72.0	71.5	71.0	70.0
60	56.0	56.0	57.0	57.0	56.5	56.0	56.0	55.5	55.0

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CANDELA TABULATION - (Cont.)

65	41.0	41.0	41.5	42.5	42.0	41.5	41.5	41.0	41.5
70	26.0	27.0	28.0	28.5	29.0	29.0	29.0	28.5	29.0
75	15.0	16.0	16.5	17.0	17.5	17.5	17.5	17.5	17.5
80	7.0	7.0	7.5	8.0	8.5	8.5	8.5	8.5	8.5
85	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
90	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
95	3.0	3.0	4.5	5.0	5.0	5.5	7.5	8.0	10.0
100	13.0	18.5	29.5	34.0	37.5	38.0	37.5	38.0	38.0
105	61.5	76.5	83.5	83.5	83.5	85.0	84.5	84.0	85.5
110	136.5	139.0	140.0	139.5	140.0	141.5	142.0	141.0	141.0
115	196.0	196.0	198.0	198.5	197.0	194.5	191.5	191.5	188.0
120	255.5	256.0	257.5	258.0	258.0	257.5	257.0	256.0	256.0
125	310.0	311.0	312.0	312.0	311.0	311.0	311.0	310.5	308.5
130	359.5	361.0	360.5	360.0	360.0	359.5	359.5	358.5	357.5
135	404.0	404.5	405.0	404.0	403.5	404.0	403.5	403.0	402.5
140	444.0	444.0	444.0	443.0	443.0	443.5	443.0	442.5	442.0
145	478.5	479.0	478.5	478.0	478.0	478.0	478.5	478.0	478.0
150	508.5	508.5	508.0	508.0	508.5	508.0	508.5	507.5	508.0
155	534.0	533.5	533.0	533.5	533.0	533.0	533.0	532.5	533.0
160	554.5	554.0	554.5	554.0	554.0	554.5	554.0	553.5	554.0
165	570.5	570.0	570.0	570.0	570.5	570.0	570.0	570.0	570.5
170	582.0	582.0	582.0	582.0	581.5	581.5	581.5	581.5	582.0
175	588.5	588.5	588.5	588.5	588.5	588.5	588.5	589.0	589.0
180	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	199.70	N.A.	8.40
0-30	385.16	N.A.	16.10
0-40	561.83	N.A.	23.50
0-60	733.24	N.A.	30.70
0-80	788.58	N.A.	33.00
0-90	791.98	N.A.	33.10
10-90	736.36	N.A.	30.80
20-40	362.12	N.A.	15.10
20-50	471.52	N.A.	19.70
40-70	210.48	N.A.	8.80
60-80	55.34	N.A.	2.30
70-80	16.28	N.A.	0.70
80-90	3.40	N.A.	0.10
90-110	66.34	N.A.	2.80
90-120	250.33	N.A.	10.50
90-130	525.65	N.A.	22.00
90-150	1135.49	N.A.	47.50
90-180	1598.59	N.A.	66.90
110-180	1532.25	N.A.	64.10
0-180	2390.57	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	55.62
10-20	144.08
20-30	185.45
30-40	176.67
40-50	109.40
50-60	62.02
60-70	39.06
70-80	16.28
80-90	3.40
90-100	7.19
100-110	59.14
110-120	183.99
120-130	275.32
130-140	310.74
140-150	299.10
150-160	245.99
160-170	161.10
170-180	56.00

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

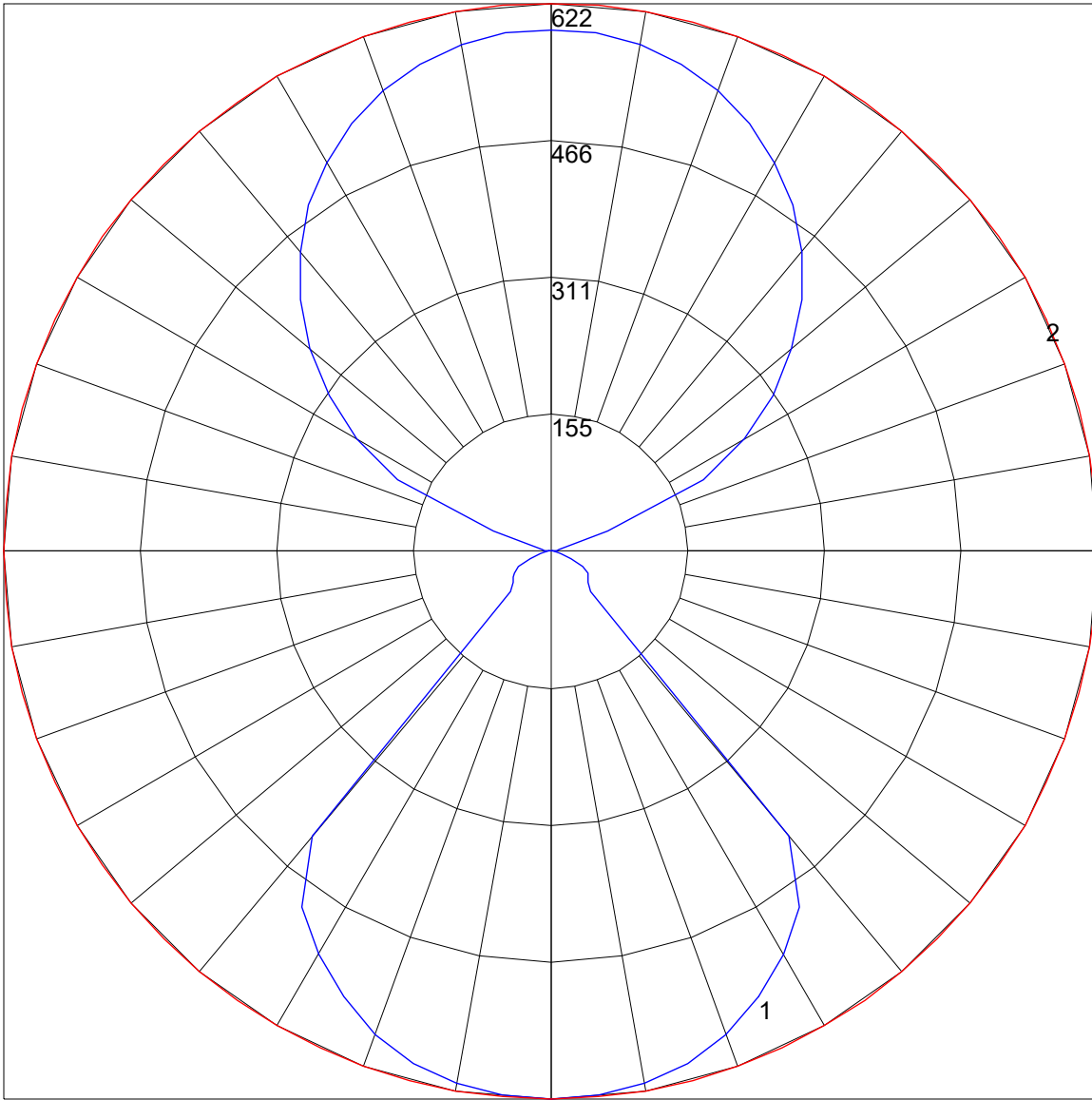
Effective Floor Cavity Reflectance 0.20

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	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	79	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	28	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 = 621.5 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.)