

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), Low Output

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	65	68	70	73
Total Lumens, 4' rail length (1219mm)	1987	2074	2160	2246
Lumens per foot (305mm)	497	518	540	562
Uplight Lumens per foot (305mm)	315	329	342	356
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_DIFFUSELENSUP-WHITEBAFFLEDOWN_3500K_170327.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L031700417R02 (USED TO PREPARE REPORT FOR LOW OUTPUT RATING)
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUEDATE] 4/19/2017 (ORIGINAL REPORT)
 [MANUFAC] VODE LIGHTING
 [LUMCAT] 107-DB-48-Z-LO-35-1WB-AL
 [LUMINAIRE] DOUBLEBOX LED, 48", 3500K, ZIPPER BOARD,
 [MORE] DIFFUSE LENS UP/WHITE BAFFLE DOWN, LOW OUTPUT (350MA)
 [LAMPPOSITION] 0,0
 [LAMPCAT] 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	2160
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	70
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	1015	2455	5087
55	655	1249	3916
65	490	641	3052
75	147	230	1996
85	26	36	625

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	616.0	616.0	616.0	616.0	616.0	616.0	616.0	616.0	616.0	616.0
5	615.0	611.5	608.5	605.0	602.0	599.0	596.0	593.5	591.0	588.5
10	608.0	601.5	595.5	589.5	583.5	578.0	572.5	565.0	558.5	552.5
15	595.5	585.5	576.5	567.5	558.5	547.5	537.0	527.5	518.0	508.0
20	577.0	565.0	553.5	541.0	526.0	512.0	498.5	484.0	471.0	457.5
25	553.0	538.5	525.0	507.0	489.0	470.0	451.0	433.5	412.5	393.0
30	523.5	507.0	490.5	469.0	447.0	424.0	400.0	373.5	349.0	327.5
35	489.0	471.0	450.0	426.5	400.0	372.0	342.5	313.0	286.5	258.0
40	392.5	373.0	346.5	323.0	309.0	301.5	280.5	249.0	216.5	187.0
45	73.0	85.0	113.0	144.0	166.5	171.5	175.5	174.5	155.5	141.0
50	54.5	57.5	61.5	66.0	72.0	87.5	97.0	102.0	106.0	103.0
55	50.0	51.5	54.0	57.0	60.5	65.5	70.0	72.5	74.0	74.5
60	47.0	47.0	47.5	48.0	48.5	50.5	51.5	53.0	54.0	54.5
65	38.5	38.5	37.0	35.5	35.5	35.0	36.0	36.5	37.5	38.5
70	24.0	23.5	23.0	22.0	22.0	22.0	22.0	23.0	24.0	25.0
75	11.5	11.5	11.5	11.5	11.5	11.5	12.0	12.0	13.0	13.5
80	6.0	6.0	6.0	6.0	5.5	5.5	5.5	5.5	5.5	6.0
85	2.0	2.0	2.5	2.5	2.0	2.5	2.0	2.0	2.5	2.0
90	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
95	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.0	6.0	7.5
100	19.0	18.5	18.0	18.5	19.5	21.0	23.0	26.5	29.5	33.5
105	51.5	48.5	49.0	51.0	52.0	54.0	56.0	58.5	62.0	65.0
110	91.5	91.0	87.0	87.0	89.0	91.0	93.0	95.0	97.5	100.5
115	134.0	134.0	132.5	130.0	129.5	130.5	133.0	135.0	138.0	141.5
120	178.0	178.0	178.5	178.5	176.0	176.5	177.5	180.0	181.0	182.5
125	225.0	225.0	225.5	226.0	226.5	227.0	228.0	229.0	230.5	231.5
130	273.5	273.0	273.5	274.0	274.0	274.5	276.0	276.5	277.0	277.5
135	322.0	322.0	321.5	322.0	322.0	322.5	323.5	325.0	325.0	326.0
140	368.5	368.5	368.0	368.0	369.0	370.0	369.5	370.5	371.5	372.0
145	413.0	412.5	412.0	412.5	412.5	413.0	414.0	413.5	414.5	415.0
150	453.0	452.5	452.5	452.0	452.5	452.5	453.5	453.5	454.0	454.5
155	488.0	487.5	487.5	487.0	487.5	487.5	488.0	489.5	489.0	489.0
160	517.5	516.5	517.0	517.0	516.5	517.0	517.5	517.5	518.0	518.5
165	541.0	540.0	540.0	540.5	540.5	540.0	539.5	540.0	540.5	541.0
170	557.5	557.0	557.0	556.5	556.5	557.0	557.0	556.5	556.5	556.5
175	568.0	567.5	567.5	567.0	567.0	567.0	566.5	566.5	566.5	566.5
180	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0

Vert. Angles Horizontal Angles

	50	55	60	65	70	75	80	85	90
0	616.0	616.0	616.0	616.0	616.0	616.0	616.0	616.0	616.0
5	586.0	584.0	582.5	581.0	579.5	578.5	577.5	577.5	577.0
10	547.0	542.0	538.0	534.0	531.0	528.5	527.0	526.5	526.5
15	498.5	490.0	482.0	476.0	471.0	467.0	464.5	463.0	463.5
20	443.0	429.0	416.5	406.0	397.0	390.5	386.0	382.5	383.0
25	375.5	359.0	344.5	332.5	322.5	314.5	309.0	304.5	304.0
30	307.0	288.0	268.0	250.5	237.0	225.5	217.5	212.5	213.0
35	229.5	203.5	191.0	182.5	176.0	170.0	165.5	162.5	161.0
40	171.0	157.5	149.5	143.5	139.0	136.0	133.0	131.0	130.0
45	132.5	125.5	120.0	115.5	112.5	110.5	108.5	107.0	106.5
50	102.5	98.5	95.0	92.5	90.0	88.0	87.0	86.0	85.5
55	75.5	74.5	73.5	72.5	71.0	70.0	69.5	69.0	68.0
60	55.0	55.0	55.5	55.5	55.0	54.5	54.5	54.0	53.5

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CANDELA TABULATION - (Cont.)

65	40.0	40.0	40.5	41.0	41.5	41.0	40.5	40.0	40.5
70	25.5	26.5	27.5	28.0	28.0	28.5	28.0	28.0	28.5
75	14.5	15.5	16.0	16.5	17.0	17.5	17.5	17.0	17.5
80	6.5	7.0	7.5	7.5	8.0	8.5	8.5	8.5	8.5
85	2.0	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	1.0	1.5	2.0
95	9.0	12.0	13.5	15.0	17.5	20.0	20.5	21.5	22.0
100	36.0	42.0	43.0	43.5	44.5	45.5	46.0	46.0	47.0
105	68.0	71.5	73.5	74.0	74.5	76.0	75.5	75.5	77.0
110	103.5	106.5	108.0	108.5	109.0	109.5	110.0	110.0	110.0
115	144.0	145.5	146.0	146.5	147.0	147.0	147.0	147.5	147.5
120	186.0	181.5	188.0	188.5	187.5	185.5	183.0	181.0	182.0
125	231.5	232.5	233.5	233.5	233.5	234.0	234.0	234.0	233.0
130	278.5	280.0	280.5	280.5	280.5	280.5	281.0	281.0	280.5
135	326.0	327.0	327.5	327.5	328.0	329.0	329.0	329.0	329.0
140	372.0	373.0	373.5	373.5	373.5	374.5	374.5	374.5	375.0
145	415.5	417.0	417.0	417.5	417.5	418.0	418.5	418.5	419.0
150	455.0	456.0	456.5	456.0	457.0	457.0	458.0	457.5	459.0
155	490.5	490.5	490.0	490.5	490.5	491.5	492.0	491.5	492.5
160	518.5	518.5	519.0	518.5	519.0	520.0	520.0	520.0	521.0
165	541.0	540.5	540.5	541.5	542.5	542.0	542.0	542.5	543.5
170	556.5	557.0	557.5	557.5	557.5	557.5	557.5	558.0	558.5
175	566.5	566.5	567.0	567.0	567.0	567.5	567.5	568.0	568.0
180	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	199.75	N.A.	9.20
0-30	385.65	N.A.	17.90
0-40	562.64	N.A.	26.00
0-60	733.16	N.A.	33.90
0-80	787.24	N.A.	36.40
0-90	790.50	N.A.	36.60
10-90	734.98	N.A.	34.00
20-40	362.89	N.A.	16.80
20-50	472.16	N.A.	21.90
40-70	208.77	N.A.	9.70
60-80	54.08	N.A.	2.50
70-80	15.83	N.A.	0.70
80-90	3.26	N.A.	0.20
90-110	83.31	N.A.	3.90
90-120	222.10	N.A.	10.30
90-130	427.71	N.A.	19.80
90-150	938.00	N.A.	43.40
90-180	1369.43	N.A.	63.40
110-180	1286.11	N.A.	59.50
0-180	2159.93	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	55.52
10-20	144.23
20-30	185.90
30-40	176.99
40-50	109.28
50-60	61.24
60-70	38.25
70-80	15.83
80-90	3.26
90-100	14.73
100-110	68.58
110-120	138.78
120-130	205.61
130-140	250.89
140-150	259.40
150-160	225.18
160-170	152.42
170-180	53.82

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

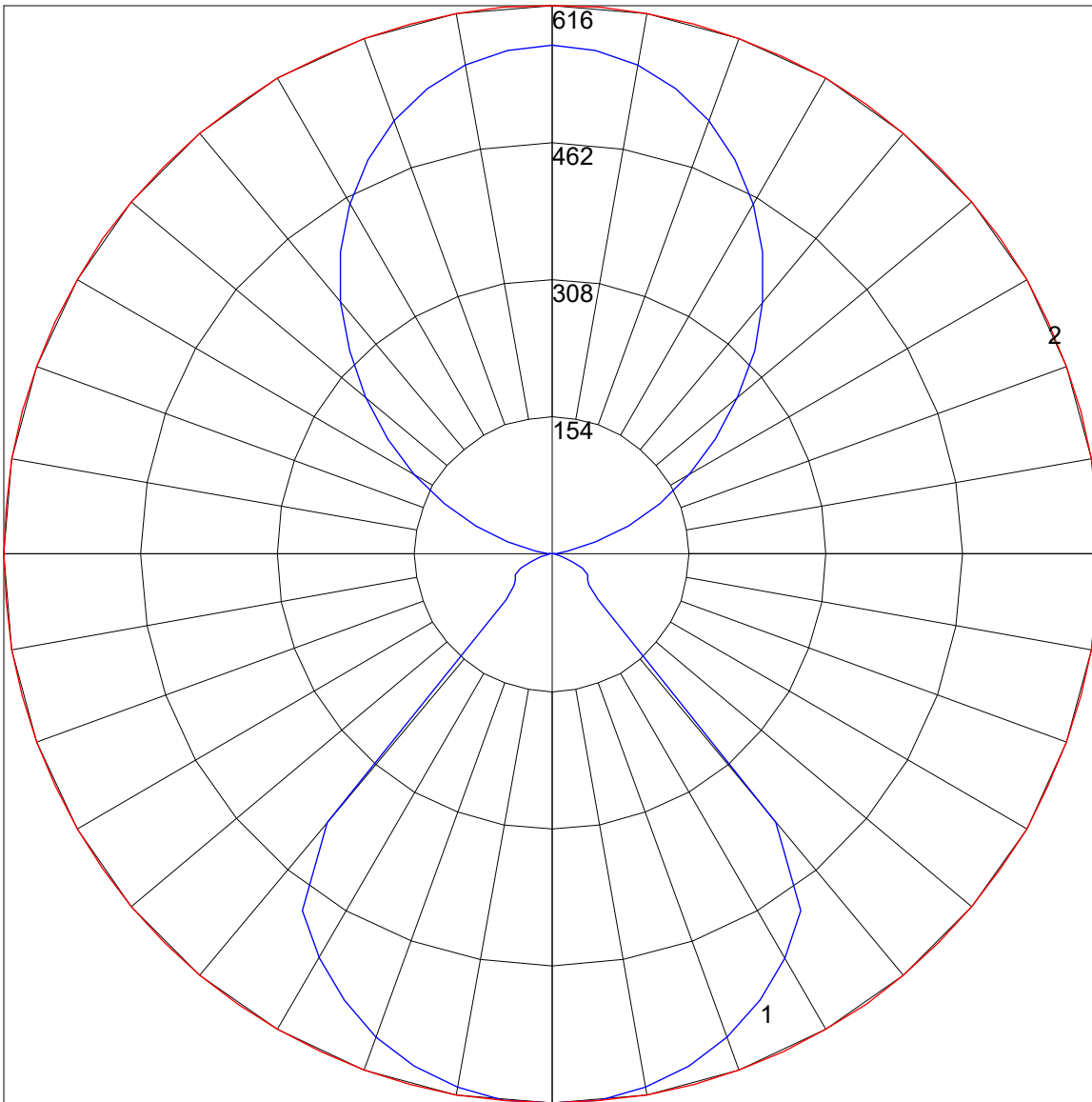
Effective Floor Cavity Reflectance 0.20

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 = 616 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.)