

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 down), Low Output

DoubleBox LED, 48", 3500K, Zipper board with diffuse lens (up and down), low output
107-DB-X-4-48-X-X-X-X-X-Z-LO-35-11-X-X-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	74	78	81	84
Total Lumens, 4' rail length (1219mm)	2287	2386	2486	2585
Lumens per foot (305mm)	572	597	621	646
Uplight Lumens per foot (305mm)	315	328	342	356
Downlight Lumens per foot (305mm)	257	268	279	
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-DIFFUSELENSDOWN_3500K_032717.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L031700415 (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-35-11-AL
[LUMINAIRE] DOUBLEBOX LED, 48", 3500K, ZIPPER BOARD,
[MORE] DIFFUSE LENS UP/DIFFUSE LENS 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	2486
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	30.92
Ballast Factor	1.00
CIE Type	General Diffuse
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	3053	4476	13876
55	1754	2792	11574
65	929	1582	9308
75	415	717	6957
85	73	144	4374

IES INDOOR REPORT

PHOTOMETRIC FILENAME : DOUBLEBOX_ZIPPER_LO_DIFFUSELENSUP-DIFFUSELENSDOWN_3500K_032717.IES

CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	536.0	536.0	536.0	536.0	536.0	536.0	536.0	536.0	536.0	536.0
5	531.5	531.0	531.0	530.5	530.5	530.5	530.5	530.5	530.5	530.5
10	518.0	517.5	517.5	517.5	517.5	518.0	518.5	518.5	518.5	518.5
15	496.0	495.0	495.5	495.5	496.5	496.5	496.5	497.5	499.0	500.5
20	464.5	463.5	464.0	465.0	465.0	466.5	468.0	469.5	472.0	473.5
25	424.0	423.5	424.5	425.0	426.5	428.5	430.5	434.5	436.0	438.0
30	376.5	376.5	377.5	379.0	381.0	383.5	387.5	390.5	394.5	398.0
35	324.5	324.5	325.5	328.0	330.5	334.5	339.0	343.0	347.5	352.5
40	270.5	271.0	272.5	275.0	279.0	283.0	287.5	293.5	299.5	305.0
45	219.5	220.0	222.0	224.5	228.0	232.0	238.0	244.0	250.0	257.0
50	173.0	173.5	175.5	178.5	181.5	185.5	191.5	197.0	203.5	210.0
55	134.0	134.5	136.0	139.0	141.0	145.0	150.0	155.0	161.5	166.5
60	100.5	101.0	102.5	104.0	105.5	108.5	112.0	117.0	123.0	129.0
65	73.0	73.5	74.0	73.5	75.0	77.5	80.5	84.5	89.5	95.0
70	50.5	50.5	49.5	49.5	51.5	53.0	55.0	58.0	62.0	66.0
75	32.5	31.0	31.5	32.0	32.5	33.5	34.5	36.0	39.0	42.0
80	18.5	17.0	17.5	17.5	18.0	18.5	19.0	20.0	21.0	22.5
85	5.5	5.5	6.0	6.0	6.0	6.0	6.5	6.5	7.5	8.0
90	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
95	4.5	5.0	4.5	4.5	4.5	4.5	4.5	5.0	6.0	7.5
100	20.0	19.0	18.5	19.5	20.0	21.0	22.5	25.5	29.0	35.0
105	51.5	47.5	49.0	50.5	52.0	54.0	55.5	58.0	61.5	64.5
110	91.5	89.5	86.0	86.5	89.0	91.0	92.5	94.5	97.0	100.0
115	133.5	133.5	131.0	128.0	128.0	130.0	132.0	134.5	137.0	140.5
120	178.0	178.0	178.0	176.5	174.5	174.5	176.0	176.5	181.0	183.5
125	224.5	224.5	225.0	225.5	226.0	226.0	227.5	228.0	230.0	231.0
130	273.0	273.0	273.0	273.5	274.0	274.5	275.5	276.5	277.5	277.5
135	321.5	321.5	321.5	321.5	322.0	322.5	323.0	324.5	325.0	326.0
140	368.0	368.0	367.5	367.5	368.5	369.5	369.5	370.5	371.5	372.0
145	412.5	412.0	412.0	412.5	412.5	413.0	414.0	414.0	414.5	415.0
150	452.5	452.0	452.0	452.0	452.0	452.5	453.5	453.5	454.0	454.5
155	488.0	487.0	487.5	487.0	487.0	487.5	487.5	489.0	488.5	489.0
160	517.0	516.5	516.5	517.0	516.5	516.5	517.0	517.5	518.0	518.5
165	540.5	540.0	539.5	540.0	540.0	539.5	539.5	540.0	540.5	540.5
170	557.5	557.0	556.5	556.5	556.5	556.5	557.0	556.5	556.5	556.5
175	567.5	567.5	567.0	567.0	566.5	566.5	566.5	566.5	566.5	566.5
180	570.5	570.5	570.5	570.5	570.5	570.5	570.5	570.5	570.5	570.5

Vert. Angles Horizontal Angles

	50	55	60	65	70	75	80	85	90
0	536.0	536.0	536.0	536.0	536.0	536.0	536.0	536.0	536.0
5	530.5	530.5	531.0	531.0	531.5	531.5	532.0	532.0	532.5
10	519.0	520.0	521.0	520.5	521.0	521.0	521.5	522.0	522.5
15	501.0	501.0	502.0	503.0	504.5	504.5	505.0	505.5	506.5
20	474.5	476.0	478.0	478.5	480.0	482.0	482.0	482.0	483.0
25	441.5	444.0	445.5	448.0	449.0	450.5	452.0	452.5	454.0
30	401.5	405.5	408.5	411.0	414.0	415.5	418.0	418.0	420.0
35	357.0	362.5	366.0	370.0	372.5	375.0	377.5	378.0	379.5
40	310.5	316.0	320.5	325.0	328.0	332.0	333.5	334.5	335.0
45	262.5	269.0	274.5	278.5	282.5	286.5	288.5	290.0	290.5
50	216.5	223.0	228.5	233.5	237.5	240.0	242.0	243.5	245.5
55	173.0	178.5	184.0	190.0	190.5	194.0	198.5	199.5	201.0
60	135.0	140.5	146.0	150.5	152.5	156.0	159.5	160.0	160.0

IES INDOOR REPORT

PHOTOMETRIC FILENAME : DOUBLEBOX_ZIPPER_LO_DIFFUSELENSUP-DIFFUSELENSDOWN_3500K_032717.IES

CANDELA TABULATION - (Cont.)

65	101.0	105.5	110.0	114.0	117.5	120.0	121.0	121.5	123.5
70	70.5	75.0	79.0	82.0	85.0	87.5	88.5	89.5	90.0
75	45.5	49.5	52.0	55.0	57.0	58.5	60.5	61.0	61.0
80	25.0	27.5	29.0	31.0	36.0	38.0	38.0	38.0	38.5
85	8.5	9.5	11.0	12.0	13.5	15.0	16.0	17.0	17.5
90	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.5	1.5
95	9.0	11.5	13.5	15.0	18.0	20.0	20.0	21.5	22.0
100	35.5	40.5	44.0	44.0	45.0	45.5	45.5	46.5	47.0
105	67.5	71.0	73.5	74.5	75.0	75.5	76.0	76.0	76.0
110	102.5	106.0	108.0	108.5	109.5	110.5	110.0	110.0	111.5
115	143.5	145.0	146.5	146.5	146.5	147.0	147.0	147.5	149.0
120	186.0	184.0	188.0	188.5	186.5	184.0	183.0	185.0	185.5
125	232.0	232.5	233.5	234.0	233.5	234.0	234.5	234.5	233.5
130	278.5	279.5	280.0	280.5	280.5	281.0	281.0	281.0	281.0
135	326.0	327.0	327.0	327.0	328.0	328.5	328.5	328.5	329.0
140	372.5	373.0	373.5	373.5	374.0	375.0	375.0	375.0	375.0
145	416.0	417.5	417.0	417.5	417.5	418.0	419.0	418.5	419.5
150	455.0	456.0	456.5	456.5	457.5	457.5	459.0	458.0	459.5
155	490.5	490.5	490.0	491.0	491.0	491.5	492.0	492.0	493.0
160	518.5	518.5	519.0	519.0	519.0	520.5	520.0	520.0	521.5
165	540.5	540.5	540.5	541.0	542.0	542.0	542.0	542.5	543.5
170	556.5	557.0	557.5	557.5	557.0	557.5	557.5	558.0	558.5
175	566.5	566.5	566.5	566.5	567.0	567.0	567.0	567.5	568.0
180	570.5	570.5	570.5	570.5	570.5	570.5	570.5	570.5	570.5

IES INDOOR REPORT

PHOTOMETRIC FILENAME : DOUBLEBOX_ZIPPER_LO_DIFFUSELENSUP-DIFFUSELENSDOWN_3500K_032717.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	190.99	N.A.	7.70
0-30	392.35	N.A.	15.80
0-40	612.16	N.A.	24.60
0-60	960.11	N.A.	38.60
0-80	1104.62	N.A.	44.40
0-90	1116.97	N.A.	44.90
10-90	1066.64	N.A.	42.90
20-40	421.17	N.A.	16.90
20-50	618.76	N.A.	24.90
40-70	444.40	N.A.	17.90
60-80	144.51	N.A.	5.80
70-80	48.06	N.A.	1.90
80-90	12.35	N.A.	0.50
90-110	83.22	N.A.	3.30
90-120	221.61	N.A.	8.90
90-130	427.06	N.A.	17.20
90-150	937.27	N.A.	37.70
90-180	1368.63	N.A.	55.10
110-180	1285.41	N.A.	51.70
0-180	2485.6	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	50.33
10-20	140.66
20-30	201.37
30-40	219.81
40-50	197.59
50-60	150.36
60-70	96.45
70-80	48.06
80-90	12.35
90-100	14.76
100-110	68.45
110-120	138.39
120-130	205.45
130-140	250.77
140-150	259.44
150-160	225.18
160-170	152.38
170-180	53.80

IES INDOOR REPORT

PHOTOMETRIC FILENAME : DOUBLEBOX_ZIPPER_LO_DIFFUSELENSUP-DIFFUSELENSDOWN_3500K_032717.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

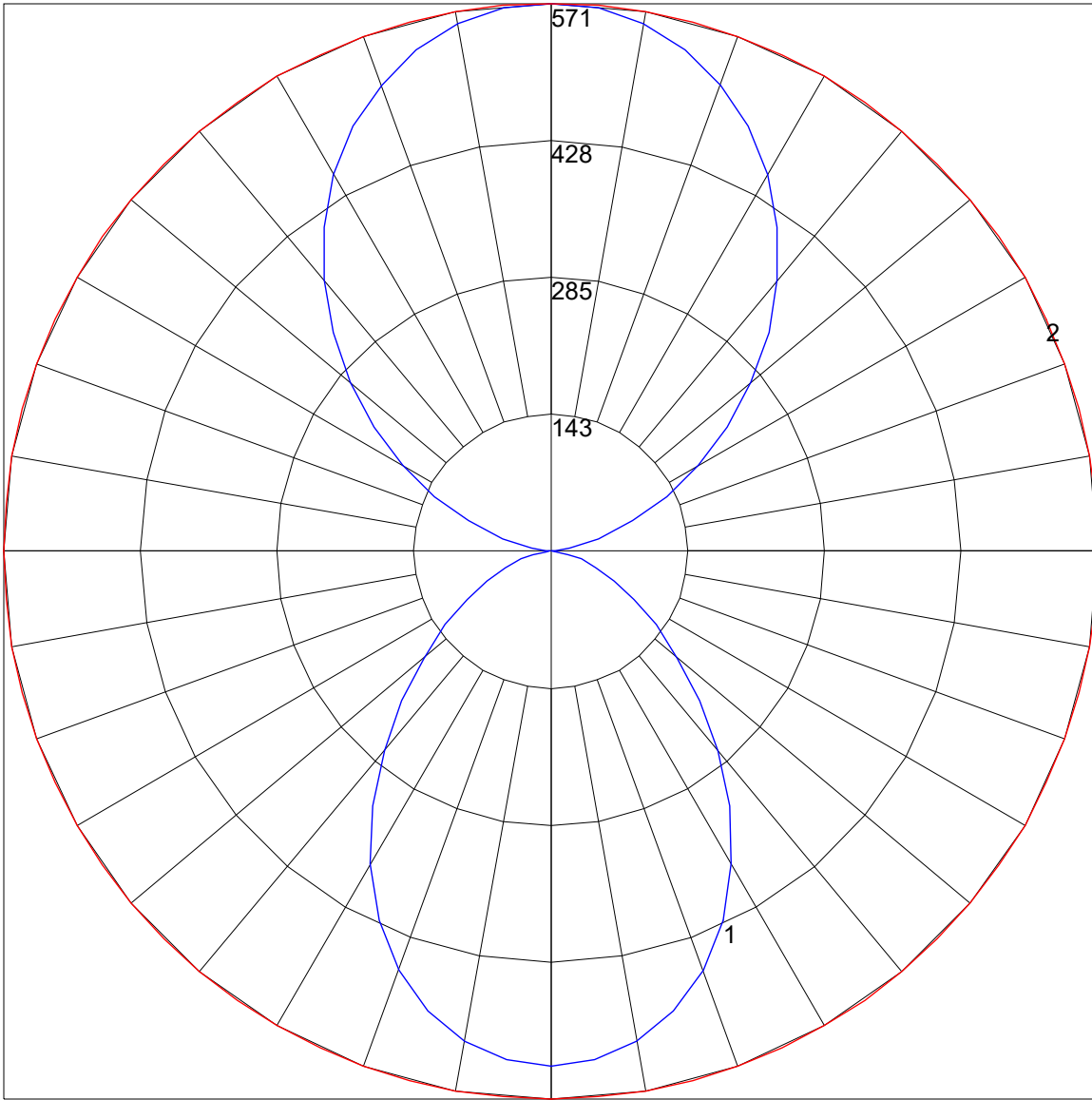
Effective Floor Cavity Reflectance 0.20

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	106	106	106	106	97	97	97	97	81	81	81	65	65	65	51	51	51	45
1	97	93	89	86	89	85	82	80	71	69	67	58	57	55	46	45	44	39
2	89	82	76	71	81	75	70	66	63	59	56	52	49	47	41	40	38	33
3	81	72	65	60	74	67	61	56	56	52	48	46	43	40	37	35	33	29
4	75	64	57	51	68	59	53	48	50	45	41	41	38	35	33	31	29	25
5	69	58	50	44	63	53	46	41	45	40	36	37	34	31	30	28	25	22
6	63	52	44	38	58	48	41	36	41	35	31	34	30	27	28	25	23	20
7	59	47	39	34	54	43	37	32	37	32	28	31	27	24	25	23	20	18
8	55	43	35	30	50	40	33	28	34	29	25	28	24	22	23	20	18	16
9	51	39	32	27	47	36	30	25	31	26	22	26	22	19	22	19	17	14
10	48	36	29	24	44	33	27	23	29	24	20	24	20	18	20	17	15	13

IES INDOOR REPORT

PHOTOMETRIC FILENAME : DOUBLEBOX_ZIPPER_LO_DIFFUSELENSUP-DIFFUSELENSDOWN_3500K_032717.IES

POLAR GRAPH



Maximum Candela = 570.5 Located At Horizontal Angle = 0, Vertical Angle = 180

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)