

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 707-Z2-48-Z-35-BAGB-BL-HO.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L072413202 (SOURCE REPORT FOR REFERENCE)  
[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB  
[ISSUE DATE] 8/25/2024  
[MANUFAC] Vode Lighting LLC  
[LUMCAT] 707-Z2-48-359-BAGB-BL-HO  
[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, Zipper Board, Asymmetric Wallwash Graphite Baffle, White Finish High Output  
[MORE] 3535 Low Glaare, High Output, Black  
[TEST PROCEDURE] IESNA:LM-79-19

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1696
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	43
Total Luminaire Watts	39.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.84
Spacing Criterion (90-270)	0.86
Spacing Criterion (Diagonal)	0.78
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.13 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3834	4390	5390
55	2329	1439	1233
65	1116	558	465
75	304	304	152
85	0	0	0

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
<b>0.0</b>	2110.9	2110.9	2110.9	2110.9	2110.9	2110.9	2110.9	2110.9	2110.9
<b>2.5</b>	2308.5	2312.3	2314.2	2205.9	2293.3	1983.6	1920.9	1827.8	1799.3
<b>5.0</b>	2711.3	2654.3	2528.9	2268.6	2224.9	1841.1	1751.8	1658.7	1634.0
<b>7.5</b>	3154.0	3026.7	2751.2	2314.2	2133.7	1702.4	1592.2	1491.5	1478.2
<b>10.0</b>	3490.3	3323.1	2931.7	2346.5	2029.2	1563.7	1436.4	1316.7	1295.8
<b>12.5</b>	3526.4	3401.0	3030.5	2361.7	1915.2	1432.6	1276.8	1122.9	1107.7
<b>15.0</b>	3188.2	3192.0	3005.8	2354.1	1791.7	1293.9	1111.5	940.5	917.7
<b>17.5</b>	2557.4	2703.7	2813.9	2312.3	1666.3	1159.0	953.8	769.5	754.3
<b>20.0</b>	1907.6	2099.5	2479.5	2240.1	1535.2	1029.8	801.8	632.7	621.3
<b>22.5</b>	1375.6	1550.4	2048.2	2124.2	1396.5	898.7	659.3	526.3	528.2
<b>25.0</b>	946.2	1103.9	1616.9	1966.5	1255.9	769.5	547.2	438.9	442.7
<b>27.5</b>	665.0	780.9	1238.8	1768.9	1121.0	651.7	450.3	370.5	381.9
<b>30.0</b>	480.7	556.7	921.5	1540.9	980.4	545.3	376.2	315.4	330.6
<b>32.5</b>	366.7	408.5	676.4	1303.4	841.7	442.7	305.9	273.6	292.6
<b>35.0</b>	286.9	311.6	495.9	1062.1	703.0	353.4	250.8	235.6	250.8
<b>37.5</b>	231.8	241.3	362.9	832.2	564.3	273.6	207.1	199.5	216.6
<b>40.0</b>	191.9	191.9	269.8	628.9	429.4	210.9	171.0	169.1	184.3
<b>42.5</b>	159.6	155.8	201.4	448.4	307.8	153.9	138.7	142.5	165.3
<b>45.0</b>	131.1	123.5	150.1	298.3	184.3	104.5	110.2	123.5	150.1
<b>47.5</b>	112.1	100.7	112.1	172.9	93.1	64.6	87.4	106.4	136.8
<b>50.0</b>	95.0	83.6	79.8	87.4	55.1	38.0	66.5	91.2	114.0
<b>52.5</b>	79.8	68.4	55.1	49.4	39.9	28.5	45.6	72.2	85.5
<b>55.0</b>	64.6	55.1	39.9	38.0	34.2	24.7	32.3	53.2	60.8
<b>57.5</b>	51.3	41.8	24.7	28.5	24.7	19.0	22.8	34.2	41.8
<b>60.0</b>	41.8	34.2	19.0	22.8	19.0	13.3	15.2	24.7	32.3
<b>62.5</b>	32.3	24.7	13.3	15.2	15.2	11.4	11.4	19.0	24.7
<b>65.0</b>	22.8	17.1	11.4	13.3	9.5	7.6	9.5	13.3	19.0
<b>67.5</b>	15.2	11.4	9.5	9.5	7.6	5.7	5.7	9.5	13.3
<b>70.0</b>	9.5	7.6	5.7	5.7	5.7	3.8	5.7	7.6	5.7
<b>72.5</b>	5.7	5.7	3.8	3.8	3.8	3.8	3.8	5.7	3.8
<b>75.0</b>	3.8	0.0	3.8	1.9	1.9	1.9	1.9	1.9	3.8
<b>77.5</b>	3.8	0.0	1.9	0.0	1.9	0.0	0.0	0.0	0.0
<b>80.0</b>	3.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>82.5</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>85.0</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>87.5</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>90.0</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	738.99	N.A.	43.60
0-30	1224.42	N.A.	72.20
0-40	1516.06	N.A.	89.40
0-60	1680.03	N.A.	99.00
0-80	1696.09	N.A.	100.00
0-90	1696.15	N.A.	100.00
10-90	1490.83	N.A.	87.90
20-40	777.06	N.A.	45.80
20-50	901.67	N.A.	53.20
40-70	177.26	N.A.	10.50
60-80	16.06	N.A.	0.90
70-80	2.77	N.A.	0.20
80-90	0.06	N.A.	0.00
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1696.15	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	205.32
10-20	533.67
20-30	485.43
30-40	291.64
40-50	124.61
50-60	39.36
60-70	13.29
70-80	2.77
80-90	0.06
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94	
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87	
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	87	85	83	81	
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76	
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71	
6	88	79	73	69	87	79	73	69	77	72	68	76	71	68	74	70	68	66	
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	70	66	63	62	
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58	
9	76	67	61	57	75	66	61	57	65	60	57	65	60	57	64	60	56	55	
10	73	63	58	54	72	63	58	54	62	57	54	61	57	54	61	56	53	52	

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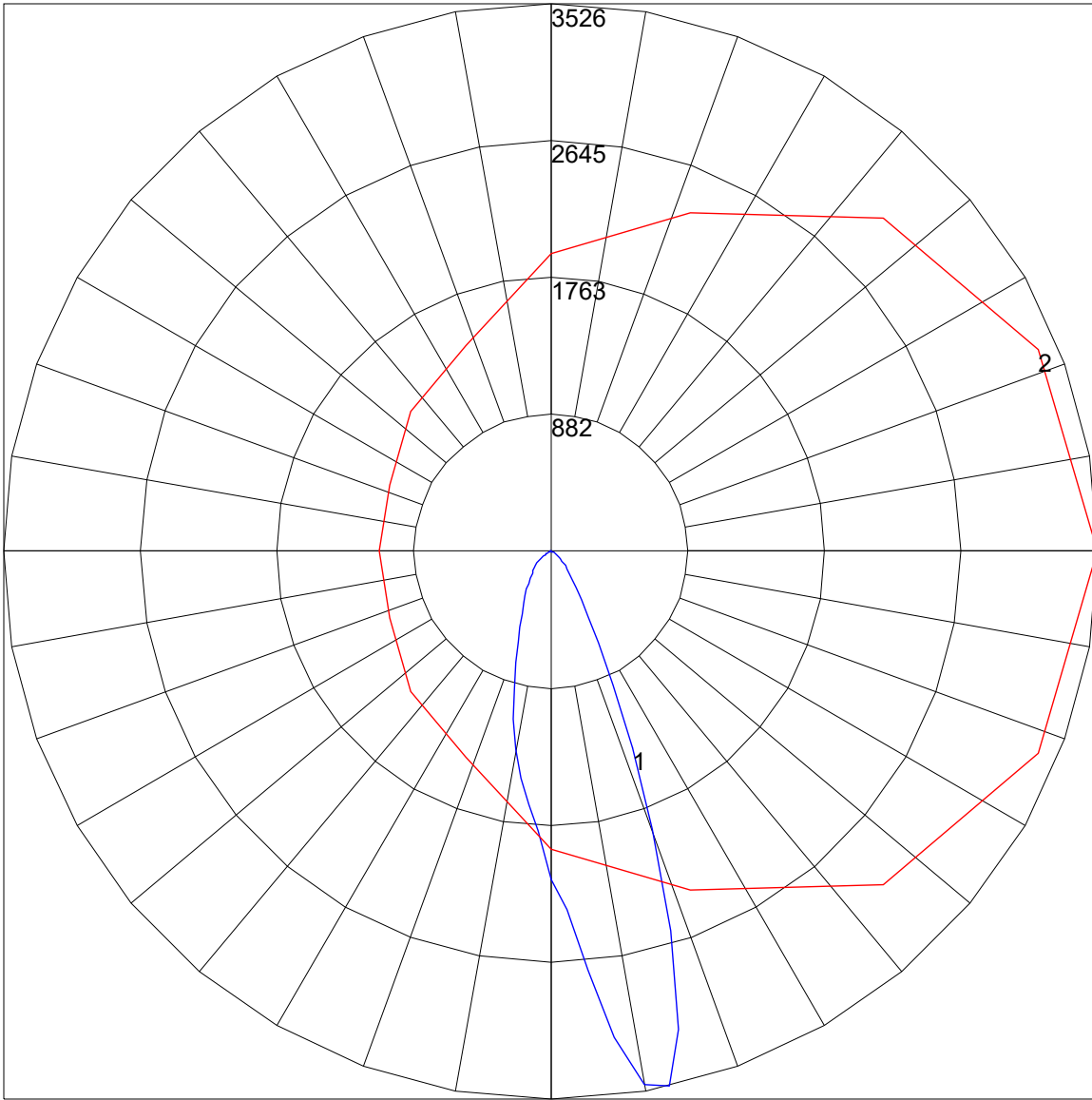
**UGR TABLE - CORRECTED**

Reflectances										
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	8.3	9.3	8.7	9.6	9.9	4.2	5.2	4.6	5.5	5.8
	3H	8.5	9.4	8.9	9.8	10.1	4.5	5.4	4.9	5.7	6.1
	4H	8.5	9.3	8.9	9.7	10.0	4.5	5.3	4.9	5.6	6.0
	6H	8.4	9.2	8.9	9.6	10.0	4.4	5.1	4.8	5.5	5.9
	8H	8.4	9.1	8.8	9.5	9.9	4.3	5.0	4.7	5.4	5.8
	12H	8.3	9.0	8.8	9.4	9.8	4.3	4.9	4.7	5.3	5.8
4H	2H	8.1	8.9	8.5	9.3	9.7	4.2	5.0	4.6	5.4	5.8
	3H	8.4	9.1	8.8	9.5	9.9	4.6	5.2	5.0	5.7	6.1
	4H	8.3	8.9	8.8	9.3	9.8	4.6	5.1	5.0	5.6	6.0
	6H	8.3	8.8	8.8	9.3	9.7	4.5	5.0	4.9	5.4	5.9
	8H	8.3	8.7	8.7	9.2	9.6	4.4	4.9	4.9	5.3	5.8
	12H	8.2	8.6	8.7	9.1	9.6	4.3	4.7	4.8	5.2	5.7
8H	4H	8.2	8.6	8.7	9.1	9.6	4.5	4.9	4.9	5.4	5.8
	6H	8.2	8.5	8.7	9.0	9.5	4.4	4.7	4.9	5.2	5.7
	8H	8.1	8.4	8.6	8.9	9.4	4.3	4.6	4.8	5.1	5.6
	12H	8.0	8.3	8.6	8.8	9.4	4.2	4.5	4.7	5.0	5.6
12H	4H	8.1	8.5	8.6	9.0	9.5	4.4	4.8	4.9	5.3	5.8
	6H	8.1	8.4	8.6	8.9	9.4	4.3	4.6	4.8	5.1	5.6
	8H	8.0	8.3	8.6	8.8	9.4	4.2	4.5	4.7	5.0	5.6

Maximum UGR = 10.1

POLAR GRAPH



Maximum Candela = 3526.4 Located At Horizontal Angle = 0, Vertical Angle = 12.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (12.5) (Through Max. Cd.)