

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 707-Z2-48-Z-35-B4WB-WH-HO.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L072413215 (SOURCE REPORT BASED FOR REFERENCE)  
[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB  
[ISSUE DATE] 8/12/2024  
[MANUFAC] Vode Lighting LLC  
[LUMCAT] 707-Z2-48-Z-35-B4WB-WH-HO  
[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, Zipper Board, Bisymmetric, White Baffle, White Finish, High Output  
[MORE] 3535 Low Glare, High Output, White  
[TEST PROCEDURE] IESNA:LM-79-19

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3362
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	39.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.00
Spacing Criterion (90-270)	0.96
Spacing Criterion (Diagonal)	1.04
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.13 ft
Luminous Height	0.13 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17599	9957	8391
55	12962	6909	6179
65	10169	4276	3637
75	6634	1834	1412
85	1644	289	218

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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>	1936.1	1936.1	1936.1	1936.1	1936.1	1936.1	1936.1	1936.1	1936.1
<b>2.5</b>	1949.4	1955.1	1962.7	1955.1	1945.6	1983.6	1974.1	1962.7	1953.2
<b>5.0</b>	1917.1	1953.2	2023.5	2095.7	2141.3	2143.2	2036.8	1949.4	1911.4
<b>7.5</b>	1875.3	1949.4	2126.1	2302.8	2405.4	2359.8	2141.3	1957.0	1875.3
<b>10.0</b>	1818.3	1945.6	2245.8	2525.1	2663.8	2561.2	2262.9	1960.8	1825.9
<b>12.5</b>	1751.8	1936.1	2348.4	2701.8	2832.9	2692.3	2367.4	1955.1	1765.1
<b>15.0</b>	1689.1	1928.5	2411.1	2755.0	2825.3	2677.1	2418.7	1943.7	1698.6
<b>17.5</b>	1628.3	1920.9	2397.8	2633.4	2584.0	2485.2	2392.1	1928.5	1628.3
<b>20.0</b>	1554.2	1896.2	2308.5	2331.3	2160.3	2150.8	2281.9	1890.5	1554.2
<b>22.5</b>	1474.4	1844.9	2131.8	1934.2	1713.8	1767.0	2091.9	1829.7	1474.4
<b>25.0</b>	1394.6	1772.7	1886.7	1559.9	1362.3	1432.6	1839.2	1749.9	1398.4
<b>27.5</b>	1309.1	1683.4	1609.3	1265.4	1124.8	1168.5	1571.3	1645.4	1312.9
<b>30.0</b>	1216.0	1563.7	1354.7	1058.3	969.0	989.9	1330.0	1516.2	1223.6
<b>32.5</b>	1124.8	1421.2	1141.9	919.6	851.2	866.4	1122.9	1369.9	1130.5
<b>35.0</b>	1029.8	1265.4	970.9	817.0	763.8	773.3	957.6	1216.0	1035.5
<b>37.5</b>	927.2	1103.9	841.7	735.3	703.0	703.0	832.2	1058.3	931.0
<b>40.0</b>	822.7	950.0	737.2	674.5	651.7	646.0	733.4	908.2	828.4
<b>42.5</b>	723.9	805.6	655.5	625.1	608.0	598.5	655.5	773.3	725.8
<b>45.0</b>	621.3	684.0	589.0	579.5	573.8	558.6	587.1	655.5	621.3
<b>47.5</b>	526.3	573.8	532.0	539.6	539.6	520.6	530.1	552.9	528.2
<b>50.0</b>	461.7	486.4	478.8	501.6	505.4	480.7	480.7	473.1	465.5
<b>52.5</b>	418.0	425.6	435.1	463.6	463.6	442.7	433.2	416.1	419.9
<b>55.0</b>	376.2	380.0	391.4	418.0	416.1	399.0	389.5	374.3	380.0
<b>57.5</b>	338.2	340.1	347.7	372.4	370.5	355.3	347.7	332.5	338.2
<b>60.0</b>	300.2	302.1	305.9	330.6	328.7	309.7	304.0	294.5	300.2
<b>62.5</b>	260.3	260.3	262.2	285.0	281.2	271.7	262.2	256.5	260.3
<b>65.0</b>	222.3	224.2	224.2	241.3	233.7	228.0	224.2	218.5	222.3
<b>67.5</b>	184.3	190.0	184.3	199.5	188.1	186.2	188.1	182.4	188.1
<b>70.0</b>	152.0	153.9	150.1	157.7	148.2	146.3	150.1	148.2	152.0
<b>72.5</b>	121.6	121.6	114.0	123.5	114.0	114.0	114.0	115.9	121.6
<b>75.0</b>	93.1	91.2	85.5	89.3	83.6	81.7	83.6	85.5	93.1
<b>77.5</b>	64.6	64.6	58.9	64.6	57.0	57.0	58.9	58.9	64.6
<b>80.0</b>	38.0	43.7	39.9	43.7	38.0	36.1	38.0	38.0	41.8
<b>82.5</b>	22.8	24.7	22.8	24.7	24.7	24.7	22.8	20.9	22.8
<b>85.0</b>	9.5	13.3	11.4	13.3	11.4	9.5	11.4	11.4	9.5
<b>87.5</b>	0.0	1.9	3.8	5.7	1.9	3.8	1.9	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	840.98	N.A.	25.00
0-30	1588.41	N.A.	47.20
0-40	2202.62	N.A.	65.50
0-60	3026.61	N.A.	90.00
0-80	3346.83	N.A.	99.50
0-90	3362.35	N.A.	100.00
10-90	3161.15	N.A.	94.00
20-40	1361.64	N.A.	40.50
20-50	1833.23	N.A.	54.50
40-70	1049.48	N.A.	31.20
60-80	320.22	N.A.	9.50
70-80	94.73	N.A.	2.80
80-90	15.52	N.A.	0.50
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	3362.35	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	201.20
10-20	639.78
20-30	747.43
30-40	614.21
40-50	471.59
50-60	352.40
60-70	225.49
70-80	94.73
80-90	15.52
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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	86	83	80	78
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62
5	84	73	65	60	82	72	65	59	70	64	59	68	62	58	66	61	58	56
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36

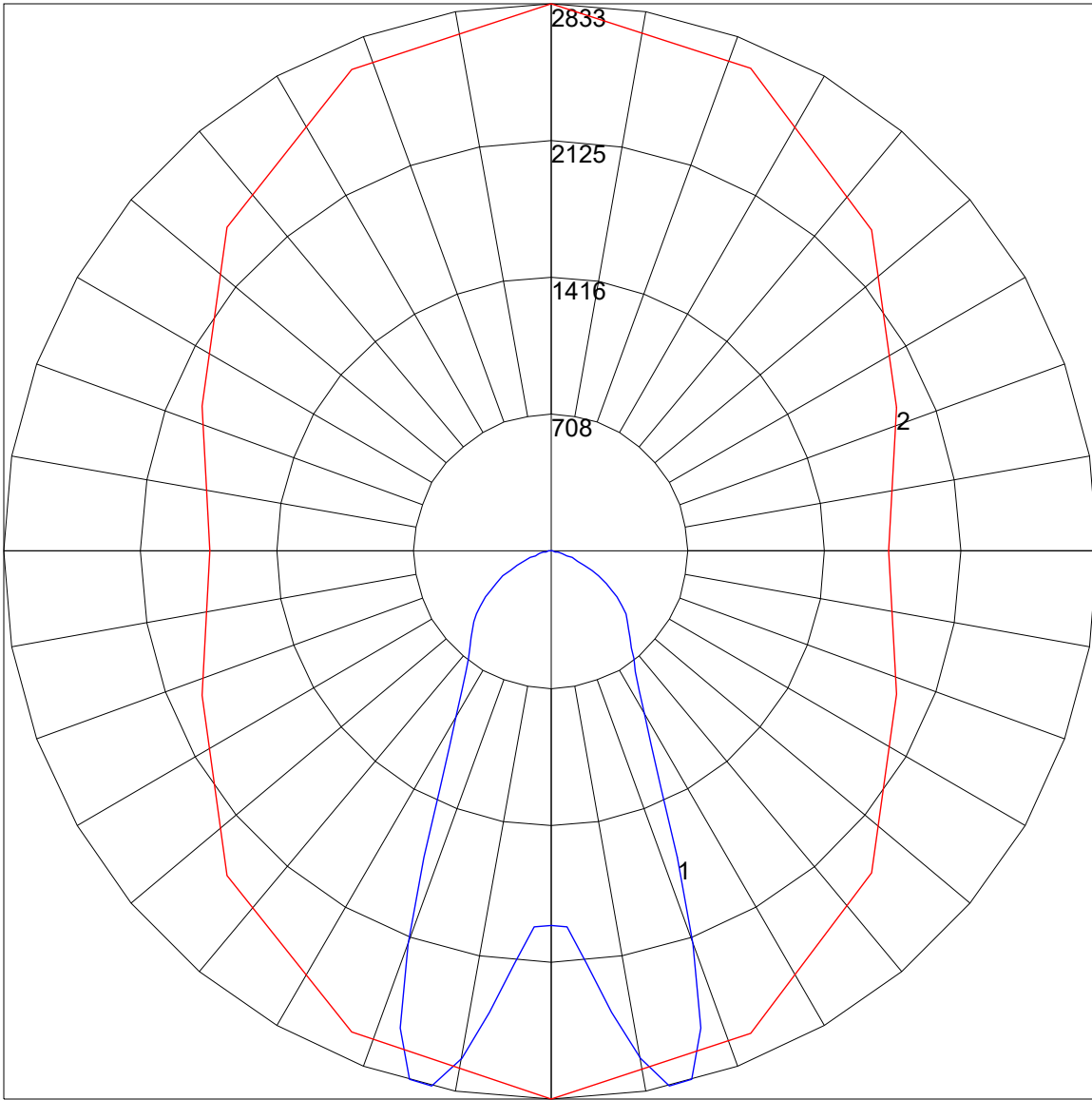
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**UGR TABLE - CORRECTED**

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	16.5	17.9	16.9	18.2	18.5	18.7	20.1	19.0	20.4	20.7
	3H	17.4	18.6	17.8	19.0	19.3	19.8	21.0	20.2	21.3	21.7
	4H	17.6	18.8	18.0	19.1	19.5	20.0	21.2	20.4	21.5	21.9
	6H	17.7	18.7	18.1	19.1	19.5	20.1	21.2	20.6	21.6	21.9
	8H	17.6	18.6	18.1	19.0	19.4	20.1	21.1	20.6	21.5	21.9
	12H	17.6	18.6	18.0	18.9	19.4	20.1	21.1	20.6	21.5	21.9
4H	2H	16.9	18.1	17.3	18.4	18.8	18.8	20.0	19.2	20.3	20.7
	3H	18.0	18.9	18.4	19.3	19.7	20.0	21.0	20.5	21.4	21.8
	4H	18.2	19.1	18.7	19.5	19.9	20.3	21.2	20.8	21.6	22.0
	6H	18.3	19.1	18.8	19.5	20.0	20.5	21.2	21.0	21.7	22.1
	8H	18.3	19.0	18.8	19.4	19.9	20.5	21.2	21.0	21.6	22.1
	12H	18.3	18.9	18.8	19.4	19.8	20.5	21.1	21.0	21.6	22.0
8H	4H	18.3	19.0	18.8	19.4	19.9	20.3	21.0	20.8	21.4	21.9
	6H	18.4	19.0	18.9	19.5	20.0	20.5	21.0	21.0	21.5	22.0
	8H	18.4	18.9	18.9	19.4	19.9	20.5	21.0	21.0	21.5	22.0
	12H	18.4	18.8	18.9	19.3	19.9	20.5	20.9	21.0	21.4	22.0
12H	4H	18.3	18.9	18.8	19.4	19.8	20.3	20.9	20.8	21.4	21.8
	6H	18.4	18.9	18.9	19.4	19.9	20.4	20.9	20.9	21.4	21.9
	8H	18.4	18.8	18.9	19.3	19.9	20.4	20.9	21.0	21.4	22.0

Maximum UGR = 22.1

POLAR GRAPH



Maximum Candela = 2832.9 Located At Horizontal Angle = 90, Vertical Angle = 12.5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (12.5) (Through Max. Cd.)