

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 707-Z2-48-Z-35-B1WB-WH-LO.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L072413206 (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-Z-35-B1WB-WH-LO  
[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, Zipper Board, 25° White Baffle White Finish, Low Output  
[MORE] 3535 Low Glare, Low Output, White.  
[TEST PROCEDURE] IESNA:LM-79-19

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	841
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	64
Total Luminaire Watts	13.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.84
Spacing Criterion (90-270)	0.52
Spacing Criterion (Diagonal)	0.72
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	4730	2477	2135
55	3325	1739	1515
65	2562	1078	941
75	1603	472	346
85	433	63	57

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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>	841.5	841.5	841.5	841.5	841.5	841.5	841.5	841.5	841.5
<b>2.5</b>	812.5	818.5	833.0	859.0	898.0	861.0	833.0	814.5	808.0
<b>5.0</b>	789.0	804.5	833.0	862.5	877.0	854.5	830.0	799.5	785.5
<b>7.5</b>	762.0	784.5	812.0	824.0	796.5	793.5	808.0	785.0	763.5
<b>10.0</b>	735.0	765.5	763.0	732.5	672.5	689.5	758.0	763.0	733.5
<b>12.5</b>	701.0	737.0	691.5	617.0	548.0	573.5	681.5	725.5	696.5
<b>15.0</b>	660.5	691.5	606.5	506.0	444.5	468.5	594.0	679.5	660.5
<b>17.5</b>	623.5	640.5	516.5	415.0	375.0	390.0	503.0	630.0	623.0
<b>20.0</b>	586.0	589.0	435.5	355.5	326.5	339.0	424.5	573.5	581.5
<b>22.5</b>	540.5	532.0	371.5	310.0	281.5	293.0	364.5	515.0	539.0
<b>25.0</b>	497.0	473.0	326.5	270.5	256.0	259.0	320.0	457.5	495.5
<b>27.5</b>	454.5	418.5	288.0	247.0	236.0	237.5	282.5	403.5	452.5
<b>30.0</b>	410.0	368.0	254.0	226.0	219.5	217.5	250.0	353.5	409.0
<b>32.5</b>	366.5	321.0	229.0	208.5	206.5	203.5	225.5	309.0	365.5
<b>35.0</b>	322.0	279.5	209.5	196.0	193.0	190.5	205.5	269.5	322.0
<b>37.5</b>	280.0	244.0	190.0	182.5	180.0	177.5	188.0	235.5	280.0
<b>40.0</b>	239.0	213.5	174.0	170.5	168.0	165.5	172.5	206.0	239.5
<b>42.5</b>	202.0	185.5	160.0	159.5	157.0	154.0	159.0	179.5	202.0
<b>45.0</b>	167.0	162.0	146.5	148.0	146.0	143.5	145.0	156.5	166.0
<b>47.5</b>	136.5	140.0	133.5	136.5	135.5	132.0	132.5	135.5	136.5
<b>50.0</b>	118.0	121.0	121.0	125.5	124.0	120.5	120.5	118.0	118.0
<b>52.5</b>	106.5	107.5	109.5	113.5	112.0	109.5	109.0	105.0	107.5
<b>55.0</b>	96.5	96.0	98.5	102.5	102.0	99.0	98.5	94.5	96.5
<b>57.5</b>	85.5	85.5	88.0	92.0	92.0	89.0	87.0	84.0	85.5
<b>60.0</b>	75.5	76.5	77.0	82.0	82.0	79.0	76.5	74.0	75.5
<b>62.5</b>	65.5	66.0	66.5	72.0	71.5	68.5	66.5	64.0	66.0
<b>65.0</b>	56.0	57.0	56.5	61.0	60.5	58.0	56.0	55.0	56.0
<b>67.5</b>	47.0	48.0	47.0	50.5	48.5	47.0	47.0	45.5	48.0
<b>70.0</b>	38.5	39.0	37.5	40.0	37.5	37.5	37.5	37.0	38.5
<b>72.5</b>	30.0	30.5	29.0	30.5	28.5	28.5	29.0	29.0	30.0
<b>75.0</b>	22.5	22.5	22.0	22.0	20.5	20.5	22.0	21.0	22.5
<b>77.5</b>	16.0	16.5	15.0	16.5	14.5	14.5	14.5	15.0	17.0
<b>80.0</b>	10.0	10.0	9.5	11.0	9.5	9.5	9.5	9.0	10.0
<b>82.5</b>	6.0	6.0	6.0	6.5	6.0	5.5	5.5	4.5	5.0
<b>85.0</b>	2.5	2.0	2.5	3.5	3.0	2.0	2.5	2.0	2.5
<b>87.5</b>	0.0	0.5	0.5	1.5	1.0	1.0	0.5	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	238.34	N.A.	28.40
0-30	403.84	N.A.	48.00
0-40	550.17	N.A.	65.50
0-60	756.03	N.A.	89.90
0-80	836.78	N.A.	99.60
0-90	840.50	N.A.	100.00
10-90	764.30	N.A.	90.90
20-40	311.84	N.A.	37.10
20-50	429.49	N.A.	51.10
40-70	262.84	N.A.	31.30
60-80	80.75	N.A.	9.60
70-80	23.77	N.A.	2.80
80-90	3.72	N.A.	0.40
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	840.50	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	76.21
10-20	162.13
20-30	165.50
30-40	146.34
40-50	117.66
50-60	88.20
60-70	56.99
70-80	23.77
80-90	3.72
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	100
1	111	108	104	101	109	105	102	100	101	99	97	97	96	94	94	92	91	89	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79	79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70	70
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63	63
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44	44
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41	41
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38	38

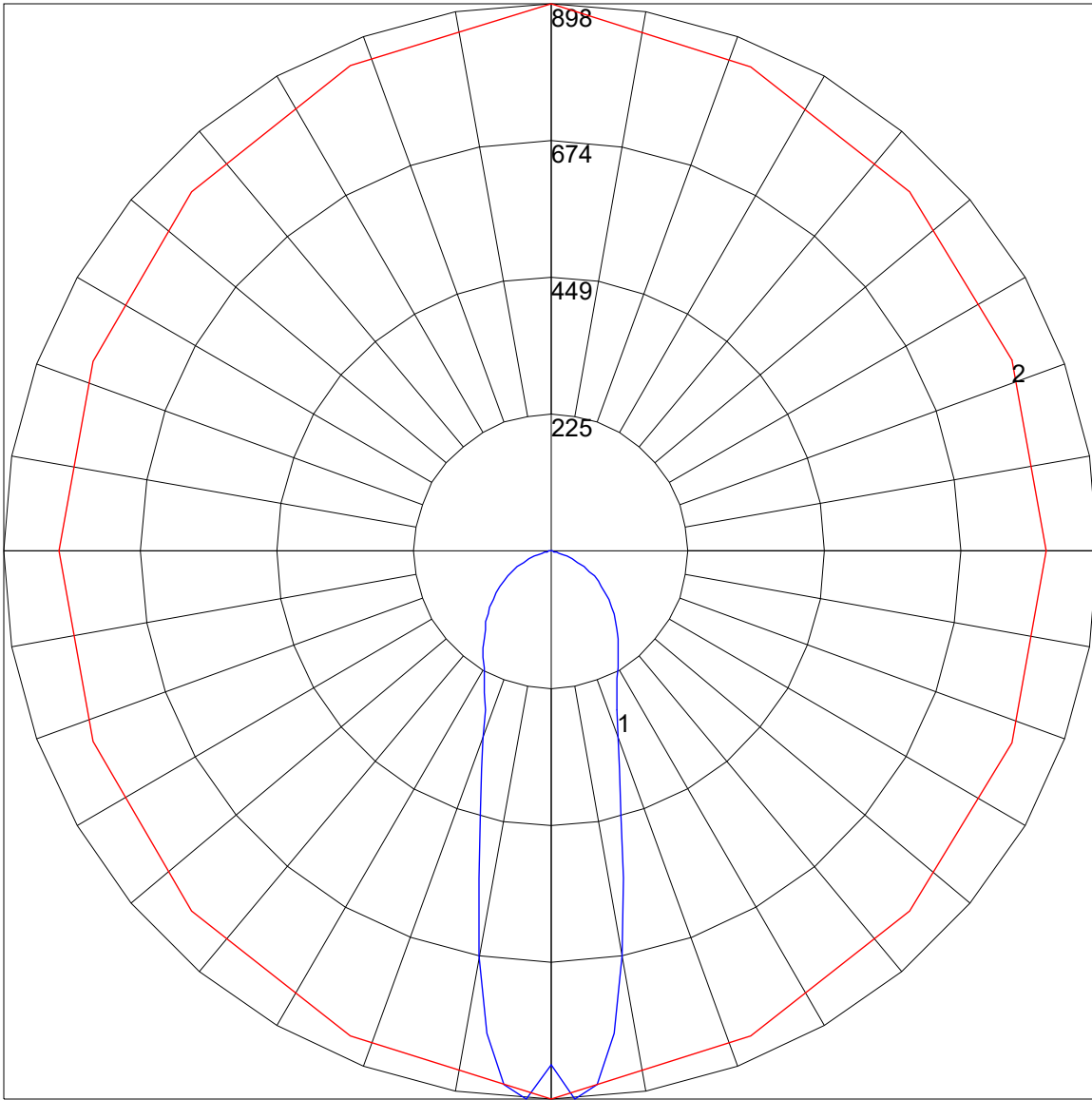
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**UGR TABLE - CORRECTED**

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	11.7	13.1	12.1	13.4	13.7	13.8	15.2	14.2	15.5	15.8
	3H	12.6	13.9	13.0	14.2	14.6	15.0	16.2	15.3	16.5	16.9
	4H	12.8	14.0	13.2	14.3	14.7	15.2	16.4	15.6	16.7	17.1
	6H	12.9	13.9	13.3	14.3	14.7	15.3	16.4	15.7	16.7	17.1
	8H	12.9	13.9	13.3	14.3	14.7	15.3	16.3	15.8	16.7	17.1
	12H	12.8	13.8	13.3	14.2	14.6	15.3	16.3	15.7	16.6	17.1
4H	2H	12.2	13.3	12.6	13.7	14.0	14.0	15.1	14.4	15.5	15.9
	3H	13.2	14.2	13.6	14.6	15.0	15.2	16.2	15.6	16.6	17.0
	4H	13.5	14.3	13.9	14.7	15.2	15.5	16.4	16.0	16.8	17.2
	6H	13.5	14.3	14.0	14.7	15.2	15.7	16.4	16.1	16.9	17.3
	8H	13.5	14.2	14.0	14.7	15.1	15.7	16.4	16.2	16.8	17.3
	12H	13.5	14.1	14.0	14.6	15.1	15.7	16.3	16.2	16.8	17.2
8H	4H	13.5	14.2	14.0	14.7	15.1	15.5	16.2	16.0	16.6	17.1
	6H	13.6	14.2	14.1	14.7	15.2	15.6	16.2	16.1	16.7	17.2
	8H	13.6	14.1	14.1	14.6	15.1	15.7	16.2	16.2	16.7	17.2
	12H	13.6	14.0	14.1	14.5	15.1	15.7	16.1	16.2	16.6	17.2
12H	4H	13.5	14.1	14.0	14.6	15.1	15.5	16.1	16.0	16.6	17.0
	6H	13.6	14.1	14.1	14.6	15.1	15.6	16.1	16.1	16.6	17.1
	8H	13.6	14.1	14.1	14.5	15.1	15.6	16.1	16.2	16.6	17.2

Maximum UGR = 17.3

POLAR GRAPH



Maximum Candela = 898 Located At Horizontal Angle = 90, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)