

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 707-Z2-48-Z-359-B1GB-WH-LO.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L072413204 (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-B1GB-WH-LO  
[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, Zipper Board, 25° Graphite 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	469
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	36
Total Luminaire Watts	13.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.74
Spacing Criterion (90-270)	0.34
Spacing Criterion (Diagonal)	0.50
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	1570	824	1210
55	333	259	730
65	154	80	340
75	60	27	71
85	0	0	8

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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>	974.40	974.40	974.40	974.40	974.40	974.40	974.40	974.40	974.40
<b>2.5</b>	970.20	965.16	945.84	935.76	892.92	894.60	932.82	955.50	971.04
<b>5.0</b>	936.60	912.24	845.46	808.92	756.84	749.70	826.56	893.34	935.76
<b>7.5</b>	892.08	836.22	716.52	656.04	606.90	598.50	694.26	808.50	887.04
<b>10.0</b>	840.84	747.60	590.10	519.54	478.80	474.18	569.94	721.14	838.74
<b>12.5</b>	784.98	658.98	482.16	416.22	385.98	381.78	465.78	636.30	784.56
<b>15.0</b>	723.66	574.14	396.06	340.20	318.78	314.16	384.30	550.20	721.14
<b>17.5</b>	661.08	493.50	330.96	282.66	265.44	260.82	320.46	471.24	658.56
<b>20.0</b>	597.66	422.52	277.62	234.78	223.86	216.72	268.38	403.20	595.56
<b>22.5</b>	532.98	360.36	233.52	199.92	199.08	188.58	223.02	342.72	531.72
<b>25.0</b>	466.20	304.50	193.20	177.24	173.04	165.06	185.22	288.54	464.52
<b>27.5</b>	404.04	256.62	163.38	152.88	155.82	141.54	157.92	243.18	403.62
<b>30.0</b>	343.56	215.88	140.28	135.24	143.22	126.84	136.08	204.12	343.56
<b>32.5</b>	287.28	179.76	119.28	122.22	130.20	114.24	114.24	169.26	286.02
<b>35.0</b>	233.10	147.42	99.12	108.36	118.86	101.22	96.18	137.34	231.00
<b>37.5</b>	182.28	117.18	85.68	97.44	108.78	90.30	82.74	108.36	180.18
<b>40.0</b>	135.24	90.30	72.24	86.10	99.12	80.22	69.30	84.00	133.98
<b>42.5</b>	92.82	68.46	60.06	76.44	90.72	70.98	57.54	62.58	92.40
<b>45.0</b>	55.44	48.30	48.72	67.62	82.74	63.00	46.62	43.68	55.02
<b>47.5</b>	27.30	31.08	38.22	59.22	74.34	54.60	36.96	27.30	27.30
<b>50.0</b>	16.38	17.64	29.40	50.40	65.10	46.20	28.14	15.12	16.38
<b>52.5</b>	12.60	11.76	21.00	42.42	56.70	38.22	20.58	10.50	12.60
<b>55.0</b>	9.66	9.24	14.70	34.02	49.14	31.50	13.86	8.40	10.50
<b>57.5</b>	7.56	7.56	9.66	27.72	42.42	25.20	9.66	7.14	8.40
<b>60.0</b>	6.30	5.88	7.14	21.84	35.70	19.74	7.14	5.46	6.30
<b>62.5</b>	4.20	5.04	5.46	16.38	28.56	14.70	5.46	3.78	4.20
<b>65.0</b>	3.36	3.36	4.20	12.18	21.84	10.50	3.78	3.36	3.36
<b>67.5</b>	2.94	2.94	3.36	7.98	15.54	7.56	3.36	2.94	2.10
<b>70.0</b>	2.10	2.10	2.52	5.46	9.66	5.04	2.52	2.10	2.10
<b>72.5</b>	1.26	1.68	1.68	3.78	5.88	3.36	1.68	1.26	1.26
<b>75.0</b>	0.84	1.26	1.26	2.94	4.20	2.10	1.26	1.26	1.26
<b>77.5</b>	0.84	0.84	1.26	1.68	2.52	1.26	0.84	0.84	0.84
<b>80.0</b>	0.00	0.00	0.42	1.26	1.26	0.84	0.00	0.42	0.00
<b>82.5</b>	0.00	0.00	0.00	0.42	0.84	0.00	0.00	0.00	0.00
<b>85.0</b>	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.00
<b>87.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	199.06	N.A.	42.50
0-30	312.03	N.A.	66.60
0-40	393.93	N.A.	84.00
0-60	458.50	N.A.	97.80
0-80	468.69	N.A.	100.00
0-90	468.82	N.A.	100.00
10-90	395.77	N.A.	84.40
20-40	194.87	N.A.	41.60
20-50	239.69	N.A.	51.10
40-70	72.66	N.A.	15.50
60-80	10.19	N.A.	2.20
70-80	2.10	N.A.	0.40
80-90	0.13	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	468.82	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	73.05
10-20	126.01
20-30	112.98
30-40	81.90
40-50	44.81
50-60	19.76
60-70	8.09
70-80	2.10
80-90	0.13
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	0
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93	0
2	107	102	98	95	105	101	97	93	97	94	91	94	92	89	91	89	88	86	0
3	102	95	90	86	100	94	89	85	91	87	84	89	85	82	86	83	81	79	0
4	96	89	83	79	95	87	82	78	85	81	77	83	79	76	81	78	75	74	0
5	91	83	77	73	90	82	76	72	80	75	72	78	74	71	77	73	70	69	0
6	87	78	72	67	85	77	71	67	76	70	67	74	70	66	73	69	66	64	0
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60	0
8	79	69	63	59	78	69	63	59	68	62	59	67	62	58	66	61	58	57	0
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54	0
10	72	62	57	53	71	62	56	53	61	56	52	60	56	52	60	55	52	51	0

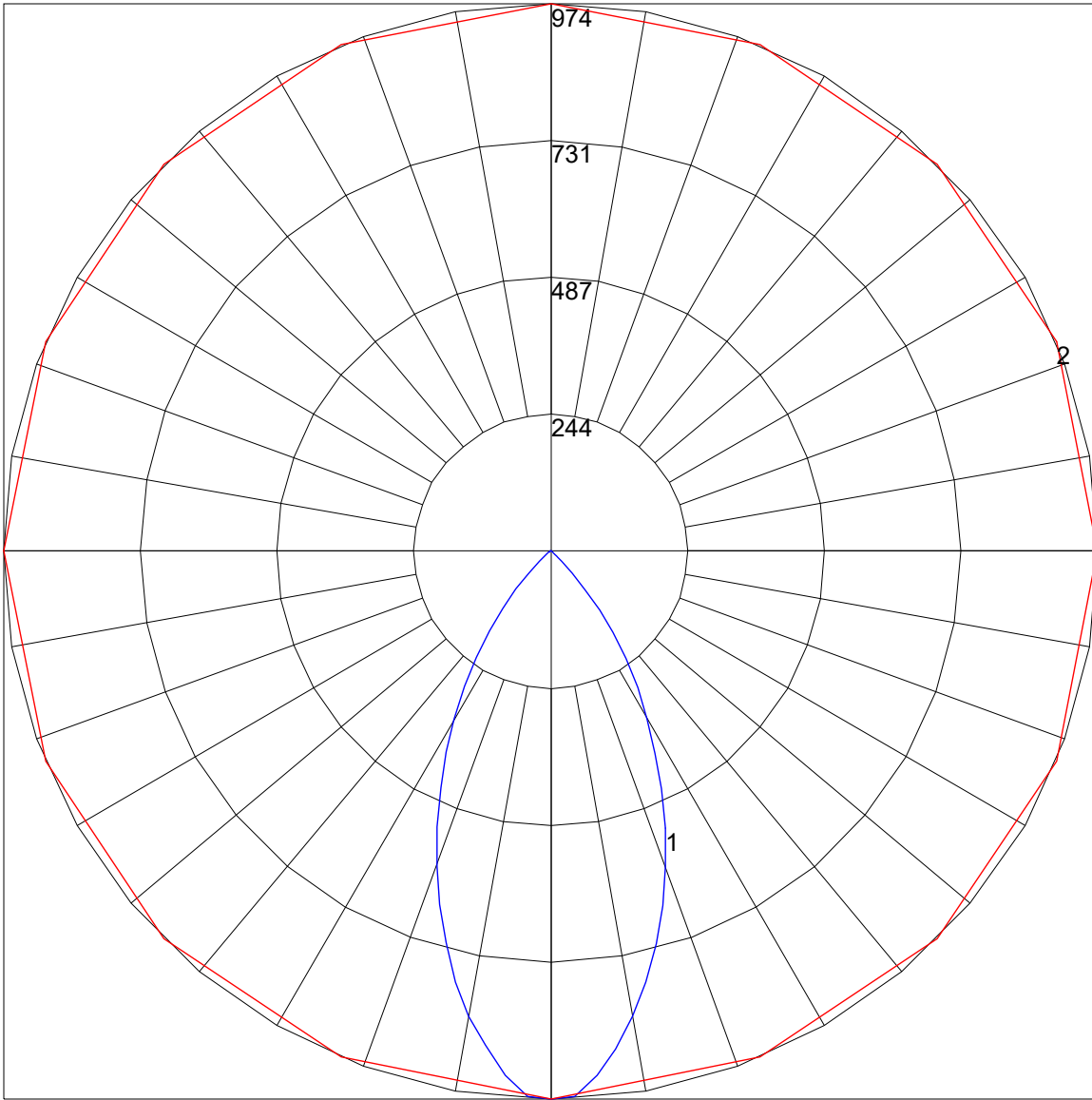
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**UGR TABLE - CORRECTED**

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	0.0	0.0	0.0	0.0	0.0	8.3	9.4	8.7	9.7	10.0
	3H	0.0	0.0	0.0	0.0	0.0	8.8	9.8	9.2	10.1	10.5
	4H	0.0	0.0	0.0	0.0	0.0	8.8	9.7	9.2	10.1	10.5
	6H	0.0	0.0	0.0	0.0	0.0	8.8	9.6	9.2	10.0	10.4
	8H	0.0	0.0	0.0	0.0	0.0	8.7	9.5	9.2	9.9	10.3
	12H	0.0	0.0	0.0	0.0	0.0	8.7	9.4	9.1	9.8	10.2
4H	2H	0.0	0.0	0.0	0.0	0.0	8.1	8.9	8.5	9.3	9.7
	3H	0.0	0.0	0.0	0.0	0.0	8.6	9.3	9.0	9.7	10.1
	4H	0.0	0.0	0.0	0.0	0.0	8.6	9.2	9.0	9.7	10.1
	6H	0.0	0.0	0.0	0.0	0.0	8.5	9.1	9.0	9.6	10.0
	8H	0.0	0.0	0.0	0.0	0.0	8.5	9.0	9.0	9.5	9.9
	12H	0.0	0.0	0.0	0.0	0.0	8.4	8.9	8.9	9.4	9.9
8H	4H	0.0	0.0	0.0	0.0	0.0	8.4	9.0	8.9	9.4	9.9
	6H	0.0	0.0	0.0	0.0	0.0	8.4	8.8	8.9	9.3	9.8
	8H	0.0	0.0	0.0	0.0	0.0	8.3	8.7	8.9	9.2	9.7
	12H	0.0	0.0	0.0	0.0	0.0	8.3	8.6	8.8	9.1	9.7
12H	4H	0.0	0.0	0.0	0.0	0.0	8.4	8.8	8.9	9.3	9.8
	6H	0.0	0.0	0.0	0.0	0.0	8.3	8.7	8.9	9.2	9.7
	8H	0.0	0.0	0.0	0.0	0.0	8.3	8.6	8.8	9.1	9.7

Maximum UGR = 10.5

POLAR GRAPH



Maximum Candela = 974.4 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.)