

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 707-Z2-48-Z-359-B1WB-WH-SO.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L072413206 (SOURCE REPORT BASED FOR REFERENCE)  
 [TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB  
 [ISSUE DATE] 8/26/2024  
 [MANUFAC] Vode Lighting LLC  
 [LUMCAT] 707-Z2-48-Z-359-B1WB-WH-SO  
 [LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, Zipper Board, 25° White Baffle White Finish, Standard Output  
 [BALLASTCAT] MEANWELL HLG-40H-36A  
 [MORE] 3535 Low Glare, Standard Output, White  
 [TEST PROCEDURE] IESNA:LM-79-19

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1412
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	54
Total Luminaire Watts	26.38
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	7947	4161	3587
55	5586	2921	2545
65	4304	1810	1582
75	2694	793	582
85	727	107	96

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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>	1413.72	1413.72	1413.72	1413.72	1413.72	1413.72	1413.72	1413.72	1413.72
<b>2.5</b>	1365.00	1375.08	1399.44	1443.12	1508.64	1446.48	1399.44	1368.36	1357.44
<b>5.0</b>	1325.52	1351.56	1399.44	1449.00	1473.36	1435.56	1394.40	1343.16	1319.64
<b>7.5</b>	1280.16	1317.96	1364.16	1384.32	1338.12	1333.08	1357.44	1318.80	1282.68
<b>10.0</b>	1234.80	1286.04	1281.84	1230.60	1129.80	1158.36	1273.44	1281.84	1232.28
<b>12.5</b>	1177.68	1238.16	1161.72	1036.56	920.64	963.48	1144.92	1218.84	1170.12
<b>15.0</b>	1109.64	1161.72	1018.92	850.08	746.76	787.08	997.92	1141.56	1109.64
<b>17.5</b>	1047.48	1076.04	867.72	697.20	630.00	655.20	845.04	1058.40	1046.64
<b>20.0</b>	984.48	989.52	731.64	597.24	548.52	569.52	713.16	963.48	976.92
<b>22.5</b>	908.04	893.76	624.12	520.80	472.92	492.24	612.36	865.20	905.52
<b>25.0</b>	834.96	794.64	548.52	454.44	430.08	435.12	537.60	768.60	832.44
<b>27.5</b>	763.56	703.08	483.84	414.96	396.48	399.00	474.60	677.88	760.20
<b>30.0</b>	688.80	618.24	426.72	379.68	368.76	365.40	420.00	593.88	687.12
<b>32.5</b>	615.72	539.28	384.72	350.28	346.92	341.88	378.84	519.12	614.04
<b>35.0</b>	540.96	469.56	351.96	329.28	324.24	320.04	345.24	452.76	540.96
<b>37.5</b>	470.40	409.92	319.20	306.60	302.40	298.20	315.84	395.64	470.40
<b>40.0</b>	401.52	358.68	292.32	286.44	282.24	278.04	289.80	346.08	402.36
<b>42.5</b>	339.36	311.64	268.80	267.96	263.76	258.72	267.12	301.56	339.36
<b>45.0</b>	280.56	272.16	246.12	248.64	245.28	241.08	243.60	262.92	278.88
<b>47.5</b>	229.32	235.20	224.28	229.32	227.64	221.76	222.60	227.64	229.32
<b>50.0</b>	198.24	203.28	203.28	210.84	208.32	202.44	202.44	198.24	198.24
<b>52.5</b>	178.92	180.60	183.96	190.68	188.16	183.96	183.12	176.40	180.60
<b>55.0</b>	162.12	161.28	165.48	172.20	171.36	166.32	165.48	158.76	162.12
<b>57.5</b>	143.64	143.64	147.84	154.56	154.56	149.52	146.16	141.12	143.64
<b>60.0</b>	126.84	128.52	129.36	137.76	137.76	132.72	128.52	124.32	126.84
<b>62.5</b>	110.04	110.88	111.72	120.96	120.12	115.08	111.72	107.52	110.88
<b>65.0</b>	94.08	95.76	94.92	102.48	101.64	97.44	94.08	92.40	94.08
<b>67.5</b>	78.96	80.64	78.96	84.84	81.48	78.96	78.96	76.44	80.64
<b>70.0</b>	64.68	65.52	63.00	67.20	63.00	63.00	63.00	62.16	64.68
<b>72.5</b>	50.40	51.24	48.72	51.24	47.88	47.88	48.72	48.72	50.40
<b>75.0</b>	37.80	37.80	36.96	36.96	34.44	34.44	36.96	35.28	37.80
<b>77.5</b>	26.88	27.72	25.20	27.72	24.36	24.36	24.36	25.20	28.56
<b>80.0</b>	16.80	16.80	15.96	18.48	15.96	15.96	15.96	15.12	16.80
<b>82.5</b>	10.08	10.08	10.08	10.92	10.08	9.24	9.24	7.56	8.40
<b>85.0</b>	4.20	3.36	4.20	5.88	5.04	3.36	4.20	3.36	4.20
<b>87.5</b>	0.00	0.84	0.84	2.52	1.68	1.68	0.84	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	400.41	N.A.	28.40
0-30	678.44	N.A.	48.00
0-40	924.29	N.A.	65.50
0-60	1270.13	N.A.	89.90
0-80	1405.8	N.A.	99.60
0-90	1412.05	N.A.	100.00
10-90	1284.02	N.A.	90.90
20-40	523.88	N.A.	37.10
20-50	721.55	N.A.	51.10
40-70	441.58	N.A.	31.30
60-80	135.67	N.A.	9.60
70-80	39.93	N.A.	2.80
80-90	6.25	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	1412.05	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	128.03
10-20	272.38
20-30	278.04
30-40	245.85
40-50	197.67
50-60	148.17
60-70	95.74
70-80	39.93
80-90	6.25
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	97	98	96	94	94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	68	88	79	72	67	77	71	66	74	70	66	72	68	65	63
5	84	74	66	61	82	73	66	60	71	64	60	69	63	59	67	62	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38

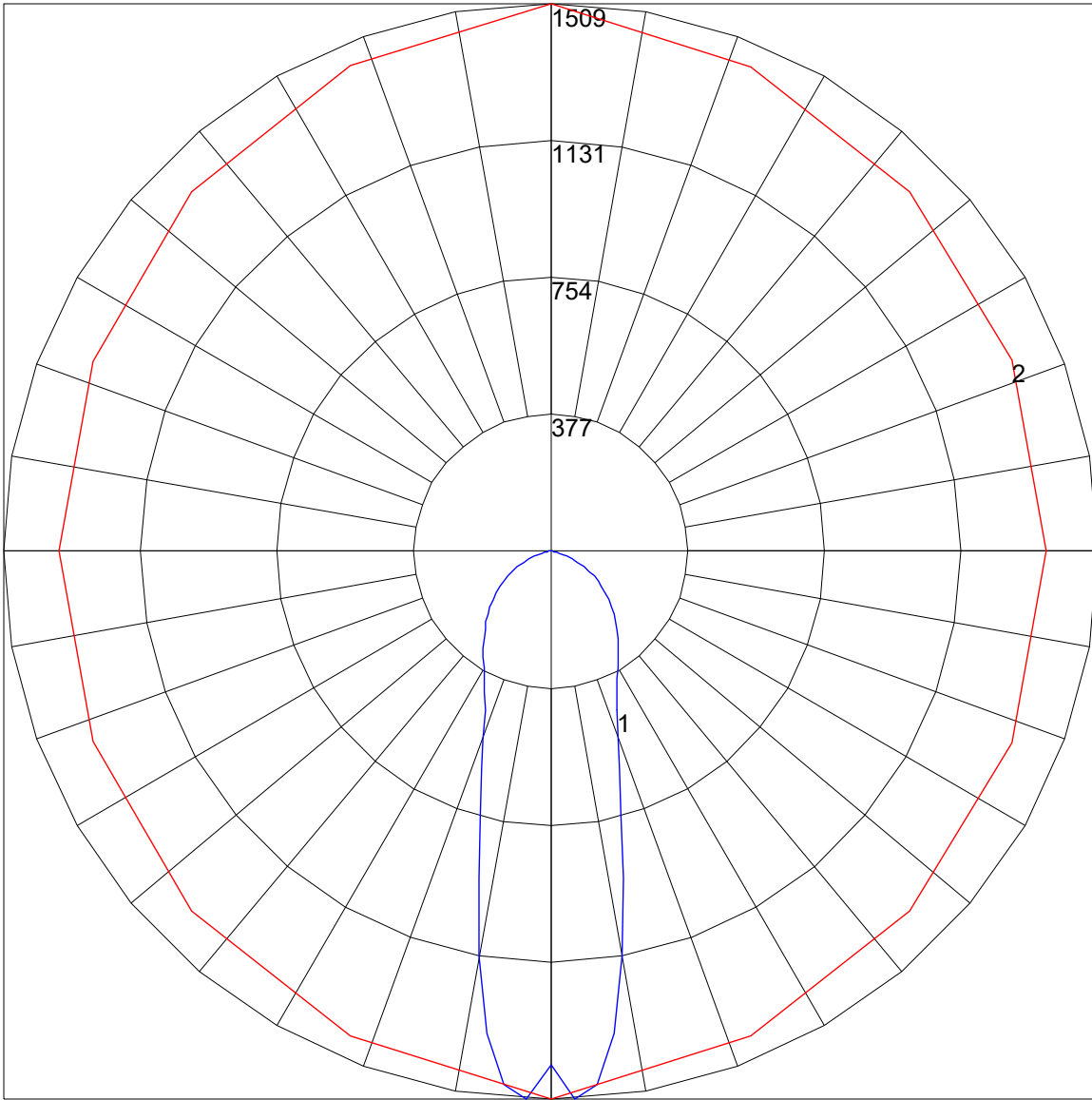
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**UGR TABLE - CORRECTED**

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	13.5	14.9	13.9	15.2	15.5	15.6	17.0	16.0	17.3	17.6
	3H	14.4	15.7	14.8	16.0	16.4	16.8	18.0	17.1	18.3	18.7
	4H	14.6	15.8	15.0	16.1	16.5	17.0	18.2	17.4	18.5	18.9
	6H	14.7	15.7	15.1	16.1	16.5	17.1	18.2	17.5	18.5	18.9
	8H	14.7	15.7	15.1	16.1	16.5	17.1	18.1	17.6	18.5	18.9
	12H	14.6	15.6	15.1	16.0	16.4	17.1	18.1	17.5	18.4	18.9
4H	2H	14.0	15.1	14.4	15.5	15.8	15.8	16.9	16.2	17.3	17.7
	3H	15.0	16.0	15.4	16.4	16.8	17.0	18.0	17.4	18.4	18.8
	4H	15.3	16.1	15.7	16.5	17.0	17.3	18.2	17.8	18.6	19.0
	6H	15.3	16.1	15.8	16.5	17.0	17.5	18.2	17.9	18.7	19.1
	8H	15.3	16.0	15.8	16.5	16.9	17.5	18.2	18.0	18.6	19.1
	12H	15.3	15.9	15.8	16.4	16.9	17.5	18.1	18.0	18.6	19.0
8H	4H	15.3	16.0	15.8	16.5	16.9	17.3	18.0	17.8	18.4	18.9
	6H	15.4	16.0	15.9	16.5	17.0	17.4	18.0	17.9	18.5	19.0
	8H	15.4	15.9	15.9	16.4	16.9	17.5	18.0	18.0	18.5	19.0
	12H	15.4	15.8	15.9	16.3	16.9	17.5	17.9	18.0	18.4	19.0
12H	4H	15.3	15.9	15.8	16.4	16.9	17.3	17.9	17.8	18.4	18.8
	6H	15.4	15.9	15.9	16.4	16.9	17.4	17.9	17.9	18.4	18.9
	8H	15.4	15.9	15.9	16.3	16.9	17.4	17.9	18.0	18.4	19.0

Maximum UGR = 19.1

POLAR GRAPH



Maximum Candela = 1508.64 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.)