

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 707-Z2-48-Z-359-B2WB-WH-LO.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L072413209 (SOURCE REPORT BASED FOR REFERENCE)  
[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB  
[ISSUE DATE] 8/27/2024  
[MANUFAC] Vode Lighting LLC  
[LUMCAT] 707-Z2-48-Z-359-B2WB-WH-LO  
[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, Zipper Board, 60° 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	740
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	56
Total Luminaire Watts	13.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.94
Spacing Criterion (90-270)	0.90
Spacing Criterion (Diagonal)	0.98
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	3950	2236	1830
55	2865	1535	1341
65	2248	953	797
75	1467	405	312
85	363	64	48

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>	497.70	497.70	497.70	497.70	497.70	497.70	497.70	497.70	497.70
<b>2.5</b>	494.34	495.18	497.28	499.38	501.90	499.80	497.28	495.18	494.34
<b>5.0</b>	486.36	490.98	498.12	507.78	512.40	507.36	498.54	488.46	485.94
<b>7.5</b>	473.76	482.58	499.80	518.70	527.94	518.28	498.54	477.12	469.56
<b>10.0</b>	455.70	469.98	501.06	532.56	549.36	531.30	497.28	464.52	454.02
<b>12.5</b>	438.48	456.96	500.22	550.20	572.88	545.58	496.02	453.60	437.22
<b>15.0</b>	422.52	445.20	500.22	565.74	582.12	549.36	495.18	440.58	417.48
<b>17.5</b>	400.68	431.76	500.22	559.02	548.10	522.48	492.66	424.20	396.48
<b>20.0</b>	378.84	414.54	491.40	512.82	469.14	459.06	477.54	407.40	374.64
<b>22.5</b>	357.84	396.90	464.52	435.54	378.84	377.58	443.10	389.76	353.64
<b>25.0</b>	336.00	378.84	417.48	352.80	302.40	304.92	393.12	370.44	330.96
<b>27.5</b>	312.06	357.84	360.36	286.02	252.00	252.00	337.26	347.76	307.02
<b>30.0</b>	287.28	333.06	304.08	242.34	216.72	215.46	283.92	321.72	283.92
<b>32.5</b>	262.08	304.08	255.78	209.58	190.26	189.42	239.82	292.74	259.14
<b>35.0</b>	238.14	272.16	218.82	184.80	170.10	168.84	205.80	260.82	234.36
<b>37.5</b>	212.10	238.98	189.84	166.32	155.82	153.30	180.18	228.06	209.16
<b>40.0</b>	188.16	207.90	166.32	151.20	144.06	140.70	160.02	197.40	184.38
<b>42.5</b>	163.38	177.24	148.68	139.86	133.98	130.62	142.80	168.84	161.28
<b>45.0</b>	139.44	149.94	132.30	129.36	125.16	120.96	128.94	143.22	136.50
<b>47.5</b>	117.60	127.26	119.28	119.70	116.34	112.56	115.92	120.96	116.34
<b>50.0</b>	102.90	107.52	107.94	110.88	108.78	103.74	105.00	103.32	102.06
<b>52.5</b>	92.82	94.08	97.02	101.64	99.54	94.50	94.50	91.14	92.40
<b>55.0</b>	83.16	84.00	86.94	91.98	90.30	86.10	85.26	81.48	83.16
<b>57.5</b>	74.76	75.60	77.28	82.32	81.06	76.86	76.02	73.08	73.92
<b>60.0</b>	66.36	66.36	67.20	73.08	70.98	67.62	66.36	64.26	65.52
<b>62.5</b>	57.54	57.96	58.38	63.42	61.74	57.96	57.54	55.44	57.12
<b>65.0</b>	49.14	49.98	49.98	53.34	51.24	49.14	49.14	47.46	48.72
<b>67.5</b>	41.58	42.00	41.58	44.52	41.58	39.90	40.32	39.90	41.58
<b>70.0</b>	33.60	34.02	33.18	35.28	32.34	31.92	32.76	31.92	33.60
<b>72.5</b>	26.88	26.88	25.62	26.88	25.20	24.36	25.20	24.78	26.04
<b>75.0</b>	20.58	20.16	18.90	20.16	18.48	17.64	18.48	18.48	19.74
<b>77.5</b>	14.28	14.28	13.44	14.28	12.60	12.18	13.02	12.60	14.28
<b>80.0</b>	9.24	9.24	8.40	9.66	8.40	8.40	8.40	7.98	8.40
<b>82.5</b>	5.04	5.46	5.04	5.88	5.04	5.04	5.04	4.20	5.04
<b>85.0</b>	2.10	2.52	2.52	3.36	2.52	2.10	2.10	2.10	2.10
<b>87.5</b>	0.00	0.42	0.42	0.84	0.84	0.84	0.42	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	186.04	N.A.	25.10
0-30	350.01	N.A.	47.30
0-40	485.38	N.A.	65.60
0-60	666.57	N.A.	90.00
0-80	736.88	N.A.	99.50
0-90	740.23	N.A.	100.00
10-90	692.59	N.A.	93.60
20-40	299.34	N.A.	40.40
20-50	403.29	N.A.	54.50
40-70	230.72	N.A.	31.20
60-80	70.32	N.A.	9.50
70-80	20.79	N.A.	2.80
80-90	3.35	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	740.23	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	47.64
10-20	138.40
20-30	163.97
30-40	135.37
40-50	103.95
50-60	77.24
60-70	49.53
70-80	20.79
80-90	3.35
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	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	104	101	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89
2	103	97	91	87	87	101	95	90	86	92	87	84	89	85	82	86	83	80	78
3	96	88	81	76	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69
4	90	80	72	67	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56
6	78	67	59	54	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51
7	73	62	54	49	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46
8	69	57	50	45	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43
9	65	53	46	41	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36

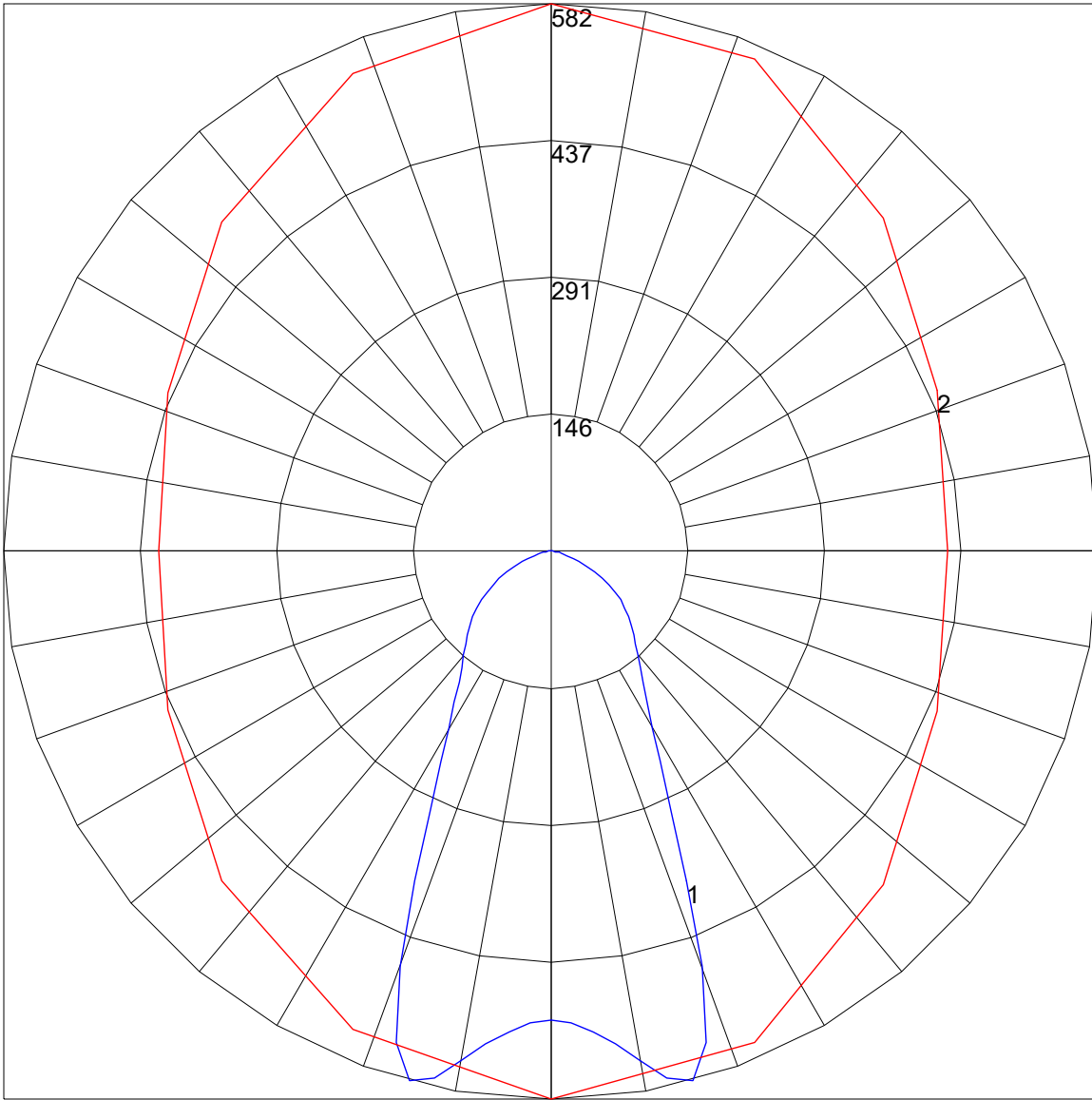
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**UGR TABLE - CORRECTED**

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	11.3	12.7	11.7	13.0	13.3	13.4	14.8	13.8	15.1	15.4
	3H	12.3	13.5	12.6	13.8	14.2	14.5	15.8	14.9	16.1	16.4
	4H	12.5	13.6	12.9	14.0	14.3	14.8	15.9	15.2	16.3	16.7
	6H	12.5	13.6	12.9	13.9	14.3	14.9	15.9	15.3	16.3	16.7
	8H	12.5	13.5	12.9	13.9	14.3	14.9	15.9	15.3	16.3	16.7
	12H	12.5	13.4	12.9	13.8	14.2	14.9	15.8	15.3	16.2	16.6
4H	2H	11.8	12.9	12.2	13.3	13.7	13.6	14.7	14.0	15.1	15.5
	3H	12.8	13.8	13.2	14.2	14.6	14.8	15.7	15.2	16.1	16.5
	4H	13.1	13.9	13.5	14.4	14.8	15.1	16.0	15.5	16.4	16.8
	6H	13.2	13.9	13.7	14.4	14.8	15.3	16.0	15.7	16.4	16.9
	8H	13.2	13.8	13.6	14.3	14.8	15.3	15.9	15.7	16.4	16.9
	12H	13.1	13.7	13.6	14.2	14.7	15.3	15.9	15.7	16.3	16.8
8H	4H	13.2	13.8	13.6	14.3	14.8	15.1	15.8	15.5	16.2	16.7
	6H	13.3	13.8	13.8	14.3	14.8	15.2	15.8	15.7	16.3	16.8
	8H	13.2	13.8	13.8	14.3	14.8	15.2	15.7	15.8	16.3	16.8
	12H	13.2	13.7	13.7	14.2	14.7	15.2	15.7	15.8	16.2	16.8
12H	4H	13.2	13.7	13.6	14.2	14.7	15.1	15.6	15.5	16.1	16.6
	6H	13.2	13.7	13.8	14.2	14.8	15.2	15.7	15.7	16.2	16.7
	8H	13.2	13.7	13.7	14.2	14.7	15.2	15.7	15.7	16.2	16.7

Maximum UGR = 16.9

POLAR GRAPH



Maximum Candela = 582.12 Located At Horizontal Angle = 90, Vertical Angle = 15  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)