

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 707-Z2-48-Z-359-B3GB-BL-SO.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L072413211 (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-B3GB-BL-SO  
[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, Zipper Board, 120° Graphite Baffle, Black Finish, Standard Output  
[MORE] 3535 Low Glare, Standard Output, Black  
[TEST PROCEDURE] IESNA:LM-79-19

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	506
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	19
Total Luminaire Watts	26.32
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.76
Spacing Criterion (90-270)	1.26
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	880	1619	1732
55	289	371	586
65	115	80	183
75	120	36	43
85	0	0	0

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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</b>	420.84	420.84	420.84	420.84	420.84	420.84	420.84	420.84	420.84
<b>5</b>	398.16	407.40	412.44	421.68	426.72	421.68	412.44	398.16	402.36
<b>10</b>	356.16	375.48	393.12	422.52	435.12	417.48	393.96	367.08	364.56
<b>15</b>	311.64	337.68	367.92	414.96	438.48	408.24	370.44	323.40	316.68
<b>20</b>	262.08	294.00	336.84	403.20	439.32	393.96	335.16	280.56	267.96
<b>25</b>	210.84	244.44	301.56	384.72	428.40	370.44	299.04	230.16	215.88
<b>30</b>	158.76	196.56	257.04	346.08	376.32	319.20	256.20	181.44	164.64
<b>35</b>	114.24	150.36	208.32	277.20	291.48	243.60	206.64	133.56	118.44
<b>40</b>	73.08	100.80	152.04	196.56	198.24	166.32	148.68	87.36	73.08
<b>45</b>	31.08	57.96	95.76	125.16	118.44	98.28	92.40	45.36	33.60
<b>50</b>	10.92	21.84	50.40	71.40	68.04	54.60	48.72	15.12	12.60
<b>55</b>	8.40	10.08	21.00	38.64	39.48	29.40	18.48	8.40	8.40
<b>60</b>	4.20	5.88	7.56	19.32	22.68	15.12	7.56	4.20	4.20
<b>65</b>	2.52	3.36	4.20	10.08	11.76	6.72	4.20	2.52	2.52
<b>70</b>	1.68	1.68	1.68	4.20	5.04	3.36	1.68	1.68	1.68
<b>75</b>	1.68	0.84	1.68	1.68	2.52	1.68	0.84	0.00	1.68
<b>80</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>85</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90</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	143.37	N.A.	28.30
0-30	284.04	N.A.	56.20
0-40	409.92	N.A.	81.00
0-60	498.31	N.A.	98.50
0-80	505.83	N.A.	100.00
0-90	505.83	N.A.	100.00
10-90	466.95	N.A.	92.30
20-40	266.55	N.A.	52.70
20-50	333.40	N.A.	65.90
40-70	94.50	N.A.	18.70
60-80	7.52	N.A.	1.50
70-80	1.41	N.A.	0.30
80-90	0.00	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	505.83	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	38.88
10-20	104.49
20-30	140.68
30-40	125.88
40-50	66.85
50-60	21.54
60-70	6.11
70-80	1.41
80-90	0.00
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	113	110	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84	84
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76	76
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	74	71	70	70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64	64
6	83	73	67	62	82	72	66	62	71	65	61	69	64	61	68	64	60	59	59
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	56	54	54
8	74	63	57	52	73	63	57	52	62	56	52	61	55	52	60	55	51	50	50
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46	46
10	66	56	49	45	65	55	49	45	54	49	45	53	48	45	53	48	44	43	43

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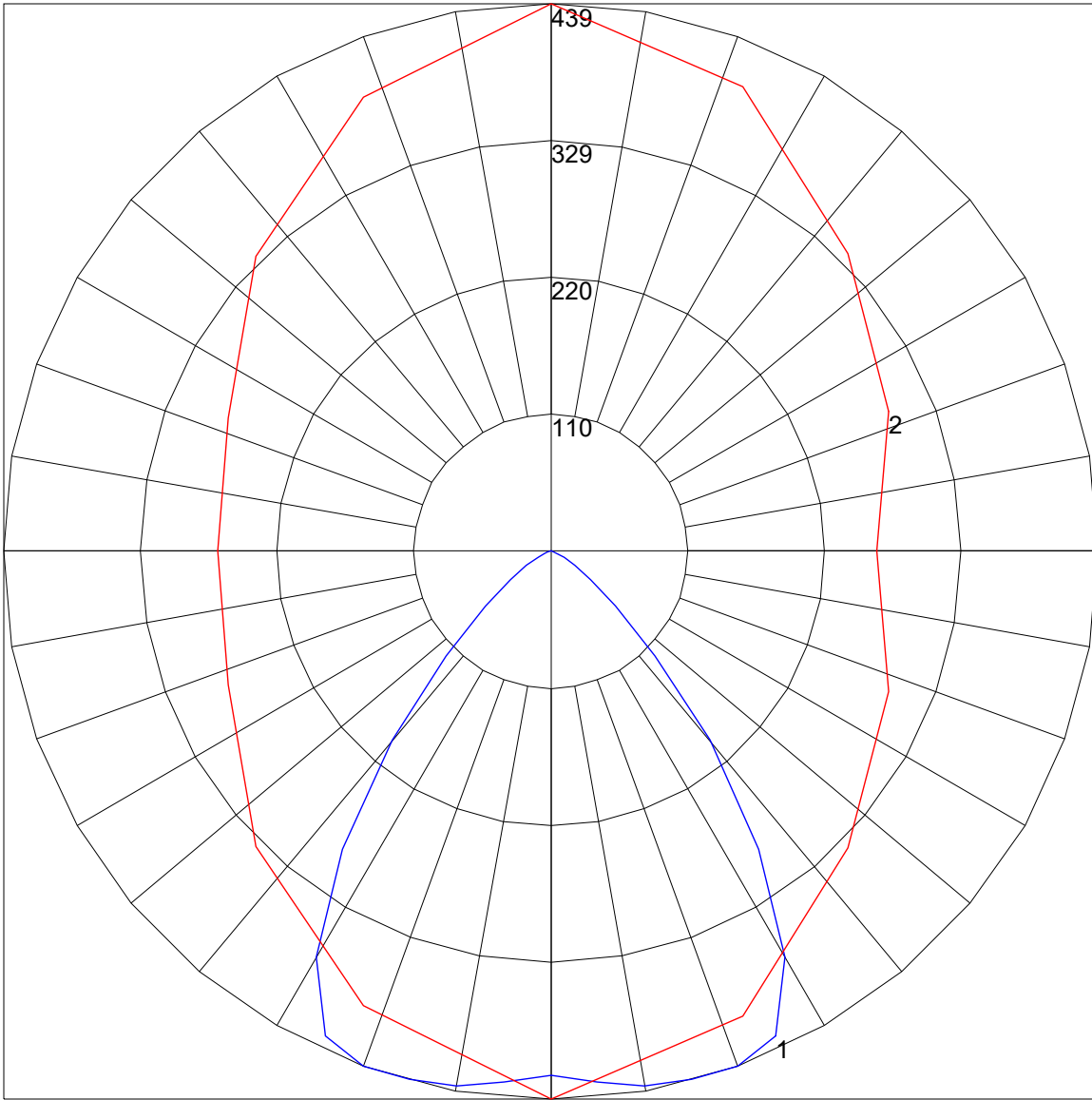
**UGR TABLE - CORRECTED**

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	7.3	8.4	7.6	8.7	9.0
	3H	0.0	0.0	0.0	0.0	0.0	7.4	8.4	7.8	8.8	9.1
	4H	0.0	0.0	0.0	0.0	0.0	7.4	8.3	7.8	8.7	9.1
	6H	0.0	0.0	0.0	0.0	0.0	7.3	8.2	7.7	8.5	8.9
	8H	0.0	0.0	0.0	0.0	0.0	7.3	8.1	7.7	8.5	8.9
	12H	0.0	0.0	0.0	0.0	0.0	7.2	8.0	7.7	8.4	8.8
4H	2H	0.0	0.0	0.0	0.0	0.0	7.0	8.0	7.4	8.3	8.7
	3H	0.0	0.0	0.0	0.0	0.0	7.2	8.0	7.6	8.4	8.8
	4H	0.0	0.0	0.0	0.0	0.0	7.2	7.9	7.6	8.3	8.7
	6H	0.0	0.0	0.0	0.0	0.0	7.1	7.7	7.6	8.1	8.6
	8H	0.0	0.0	0.0	0.0	0.0	7.0	7.6	7.5	8.0	8.5
	12H	0.0	0.0	0.0	0.0	0.0	7.0	7.4	7.5	7.9	8.4
8H	4H	0.0	0.0	0.0	0.0	0.0	7.0	7.6	7.5	8.0	8.5
	6H	0.0	0.0	0.0	0.0	0.0	6.9	7.3	7.4	7.8	8.3
	8H	0.0	0.0	0.0	0.0	0.0	6.8	7.2	7.4	7.8	8.2
	12H	0.0	0.0	0.0	0.0	0.0	6.8	7.1	7.3	7.6	8.2
12H	4H	0.0	0.0	0.0	0.0	0.0	7.0	7.4	7.5	7.9	8.4
	6H	0.0	0.0	0.0	0.0	0.0	6.8	7.2	7.4	7.7	8.3
	8H	0.0	0.0	0.0	0.0	0.0	6.8	7.1	7.3	7.6	8.2

Maximum UGR = 9.1

POLAR GRAPH



Maximum Candela = 439.32 Located At Horizontal Angle = 90, Vertical Angle = 20  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)