

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 707-Z2-48-Z-359-B4GB-BL-LO.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L072413214 (SOURCE REPORT BASED FOR REFERENCE)  
[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB  
[ISSUE DATE] 8/30/2024  
[MANUFAC] Vode Lighting LLC  
[LUMCAT] 707-Z2-48-Z-359-B4GB-BL-LO  
[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, Zipper Board, Bisymmetric, Graphite Baffle, Black Finish, Low Output  
[MORE] 3535 Low Glare, Low Output, Black  
[TEST PROCEDURE] IESNA:LM-79-19

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	381
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	29
Total Luminaire Watts	13.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.86
Spacing Criterion (90-270)	0.92
Spacing Criterion (Diagonal)	0.92
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	1023	532	442
55	246	141	237
65	96	40	65
75	60	18	14
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>	326.34	326.34	326.34	326.34	326.34	326.34	326.34	326.34	326.34
<b>5</b>	316.26	327.60	353.64	358.26	383.88	390.60	347.34	324.24	314.58
<b>10</b>	291.48	328.44	410.76	462.00	506.94	492.66	401.94	326.34	292.74
<b>15</b>	262.08	327.60	451.08	528.78	548.52	511.14	441.00	323.82	262.50
<b>20</b>	229.74	321.30	426.72	445.20	386.82	368.76	422.52	311.64	229.74
<b>25</b>	194.88	297.78	316.68	253.68	197.40	199.50	312.48	281.82	192.78
<b>30</b>	157.08	253.68	189.00	131.88	108.36	105.42	189.84	226.80	155.82
<b>35</b>	117.60	187.32	103.32	75.18	64.68	61.74	103.74	160.02	118.44
<b>40</b>	76.86	116.76	57.54	44.94	41.58	38.22	57.12	94.50	75.18
<b>45</b>	36.12	57.96	31.50	30.24	30.24	25.20	31.50	39.48	34.44
<b>50</b>	11.34	18.90	17.22	21.00	23.94	18.48	17.22	11.76	11.34
<b>55</b>	7.14	7.56	7.98	14.70	15.96	11.34	7.98	5.88	6.30
<b>60</b>	5.04	4.62	3.78	7.56	7.56	5.88	4.20	3.36	4.20
<b>65</b>	2.10	2.94	2.10	4.20	4.20	2.94	2.10	2.10	2.10
<b>70</b>	1.26	1.26	1.26	1.68	1.68	1.26	0.84	1.26	1.26
<b>75</b>	0.84	0.84	0.84	0.84	0.84	0.84	0.42	0.42	0.84
<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	149.04	N.A.	39.10
0-30	268.16	N.A.	70.40
0-40	338.52	N.A.	88.90
0-60	377.25	N.A.	99.00
0-80	380.98	N.A.	100.00
0-90	380.98	N.A.	100.00
10-90	345.96	N.A.	90.80
20-40	189.48	N.A.	49.70
20-50	218.82	N.A.	57.40
40-70	41.73	N.A.	11.00
60-80	3.73	N.A.	1.00
70-80	0.73	N.A.	0.20
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	380.98	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	35.02
10-20	114.03
20-30	119.12
30-40	70.36
40-50	29.34
50-60	9.38
60-70	3.00
70-80	0.73
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	0
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93	0
2	108	103	98	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86	0
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80	0
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	79	76	74	0
5	92	83	77	73	90	82	77	72	80	76	72	79	75	71	77	73	71	69	0
6	87	78	72	67	85	77	71	67	76	71	67	74	70	66	73	69	66	64	0
7	83	73	67	63	81	72	67	63	71	66	62	70	65	62	69	65	62	60	0
8	79	69	63	59	77	68	63	58	67	62	58	66	61	58	65	61	58	56	0
9	75	65	59	55	74	64	59	55	64	58	55	63	58	54	62	57	54	53	0
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50	0

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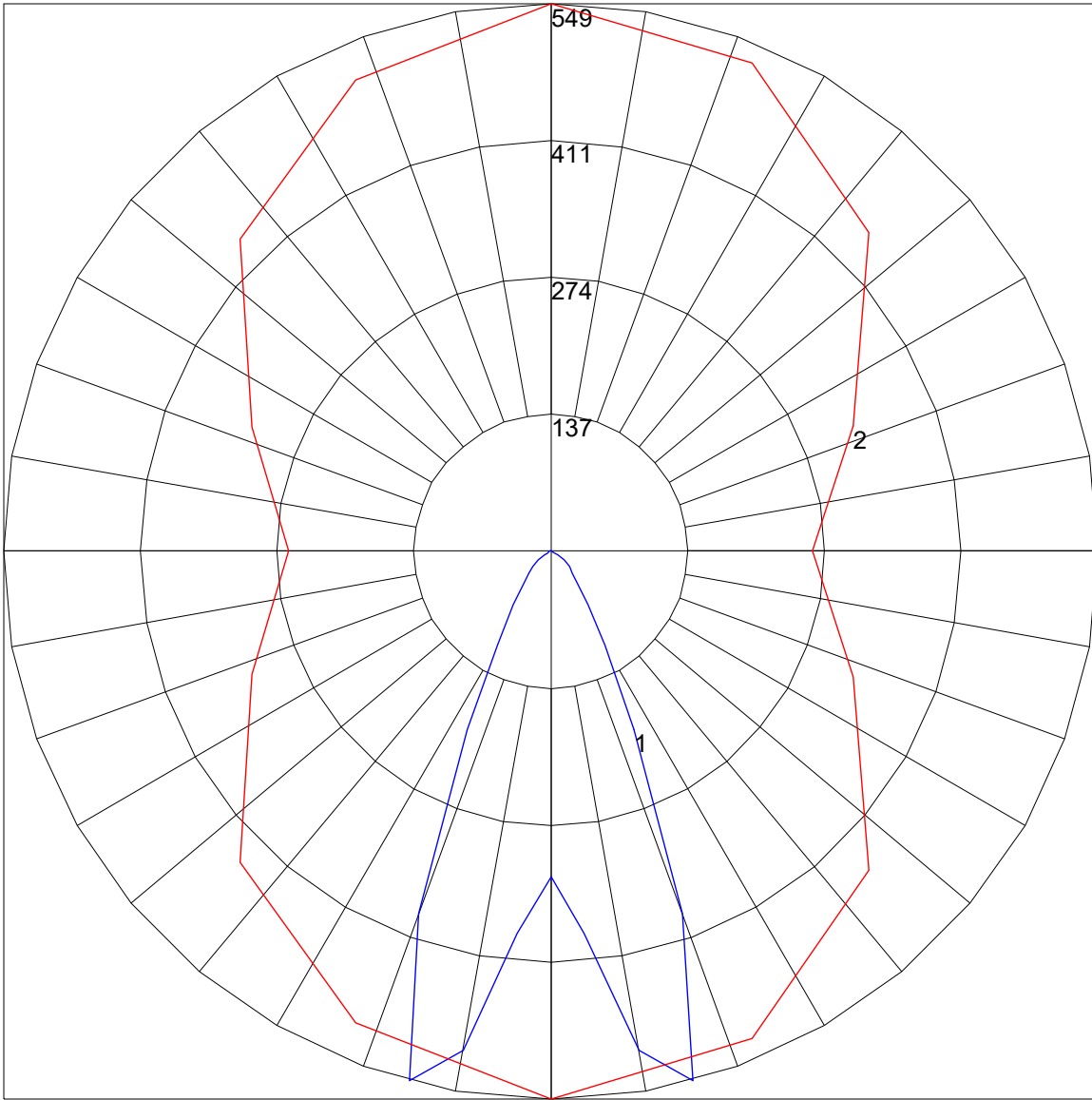
**UGR TABLE - CORRECTED**

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	1.7	2.8	2.1	3.1	3.4
	3H	0.0	0.0	0.0	0.0	0.0	1.9	2.8	2.2	3.1	3.5
	4H	0.0	0.0	0.0	0.0	0.0	1.8	2.7	2.2	3.0	3.4
	6H	0.0	0.0	0.0	0.0	0.0	1.7	2.5	2.1	2.9	3.3
	8H	0.0	0.0	0.0	0.0	0.0	1.7	2.4	2.1	2.8	3.2
	12H	0.0	0.0	0.0	0.0	0.0	1.6	2.3	2.1	2.7	3.1
4H	2H	0.0	0.0	0.0	0.0	0.0	1.5	2.3	1.9	2.7	3.1
	3H	0.0	0.0	0.0	0.0	0.0	1.6	2.3	2.1	2.7	3.1
	4H	0.0	0.0	0.0	0.0	0.0	1.6	2.2	2.0	2.6	3.1
	6H	0.0	0.0	0.0	0.0	0.0	1.5	2.0	2.0	2.5	2.9
	8H	0.0	0.0	0.0	0.0	0.0	1.4	1.9	1.9	2.4	2.8
	12H	0.0	0.0	0.0	0.0	0.0	1.4	1.8	1.9	2.3	2.7
8H	4H	0.0	0.0	0.0	0.0	0.0	1.4	1.9	1.9	2.4	2.8
	6H	0.0	0.0	0.0	0.0	0.0	1.3	1.7	1.8	2.2	2.7
	8H	0.0	0.0	0.0	0.0	0.0	1.2	1.6	1.8	2.1	2.6
	12H	0.0	0.0	0.0	0.0	0.0	1.2	1.5	1.7	2.0	2.6
12H	4H	0.0	0.0	0.0	0.0	0.0	1.4	1.8	1.9	2.3	2.7
	6H	0.0	0.0	0.0	0.0	0.0	1.2	1.6	1.8	2.1	2.6
	8H	0.0	0.0	0.0	0.0	0.0	1.2	1.5	1.7	2.0	2.6

Maximum UGR = 3.5

POLAR GRAPH



Maximum Candela = 548.52 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.)