

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 707-Z2-48-Z-359-B2GB-WH-LO.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L072410602 (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-B2GB-WH-LO  
[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, Zipper Board, 60° 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	487
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	37
Total Luminaire Watts	13.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.82
Spacing Criterion (90-270)	0.90
Spacing Criterion (Diagonal)	0.88
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.13 ft
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1277	1621	2383
55	379	560	1847
65	206	247	1048
75	168	168	369
85	0	100	100

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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>	481.74	481.74	481.74	481.74	481.74	481.74	481.74	481.74	481.74
<b>5</b>	464.10	472.08	477.54	485.10	488.04	490.56	478.38	463.26	467.04
<b>10</b>	424.62	447.30	477.54	510.30	529.62	517.44	474.60	432.18	425.46
<b>15</b>	375.90	411.18	468.30	521.22	542.64	501.06	465.78	395.22	375.90
<b>20</b>	326.76	374.64	417.06	443.94	431.34	392.70	417.90	354.90	323.82
<b>25</b>	270.90	325.50	325.50	314.16	275.10	268.38	320.04	303.66	268.38
<b>30</b>	211.26	267.54	225.12	201.18	176.82	167.58	225.96	239.82	212.10
<b>35</b>	154.14	197.40	147.84	131.88	127.68	113.82	148.26	168.84	154.98
<b>40</b>	96.60	123.90	91.98	92.82	99.12	82.32	92.40	102.90	99.12
<b>45</b>	43.68	66.78	55.44	70.14	81.48	62.16	56.70	48.72	45.78
<b>50</b>	15.54	24.36	31.50	53.34	67.62	46.62	32.76	16.38	15.54
<b>55</b>	10.50	10.92	15.54	38.22	51.24	33.18	16.38	9.66	10.50
<b>60</b>	7.14	7.14	7.98	24.36	36.12	20.16	8.40	5.88	7.14
<b>65</b>	4.20	5.04	5.04	13.86	21.42	10.50	5.46	4.20	4.20
<b>70</b>	2.94	2.94	2.94	6.72	10.08	5.46	3.36	2.94	2.94
<b>75</b>	2.10	1.68	2.10	3.36	4.62	3.36	1.68	1.68	1.26
<b>80</b>	0.84	0.84	1.26	1.68	2.10	1.26	1.26	0.84	1.26
<b>85</b>	0.00	0.00	0.42	0.84	0.42	0.42	0.42	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	171.64	N.A.	35.20
0-30	309.67	N.A.	63.50
0-40	404.32	N.A.	83.00
0-60	474.88	N.A.	97.40
0-80	486.85	N.A.	99.90
0-90	487.37	N.A.	100.00
10-90	441.76	N.A.	90.60
20-40	232.68	N.A.	47.70
20-50	281.61	N.A.	57.80
40-70	79.63	N.A.	16.30
60-80	11.97	N.A.	2.50
70-80	2.90	N.A.	0.60
80-90	0.52	N.A.	0.10
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	487.37	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	45.61
10-20	126.03
20-30	138.03
30-40	94.65
40-50	48.94
50-60	21.63
60-70	9.07
70-80	2.90
80-90	0.52
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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	80	76	73	71
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66
6	85	75	69	64	83	75	68	64	73	68	64	72	67	63	70	66	63	61
7	80	70	64	60	79	70	64	59	68	63	59	67	62	59	66	62	58	57
8	76	66	60	55	75	66	59	55	64	59	55	63	58	55	62	58	54	53
9	72	62	56	52	71	62	56	52	61	55	51	60	55	51	59	54	51	50
10	69	59	53	48	68	58	52	48	57	52	48	57	52	48	56	51	48	47

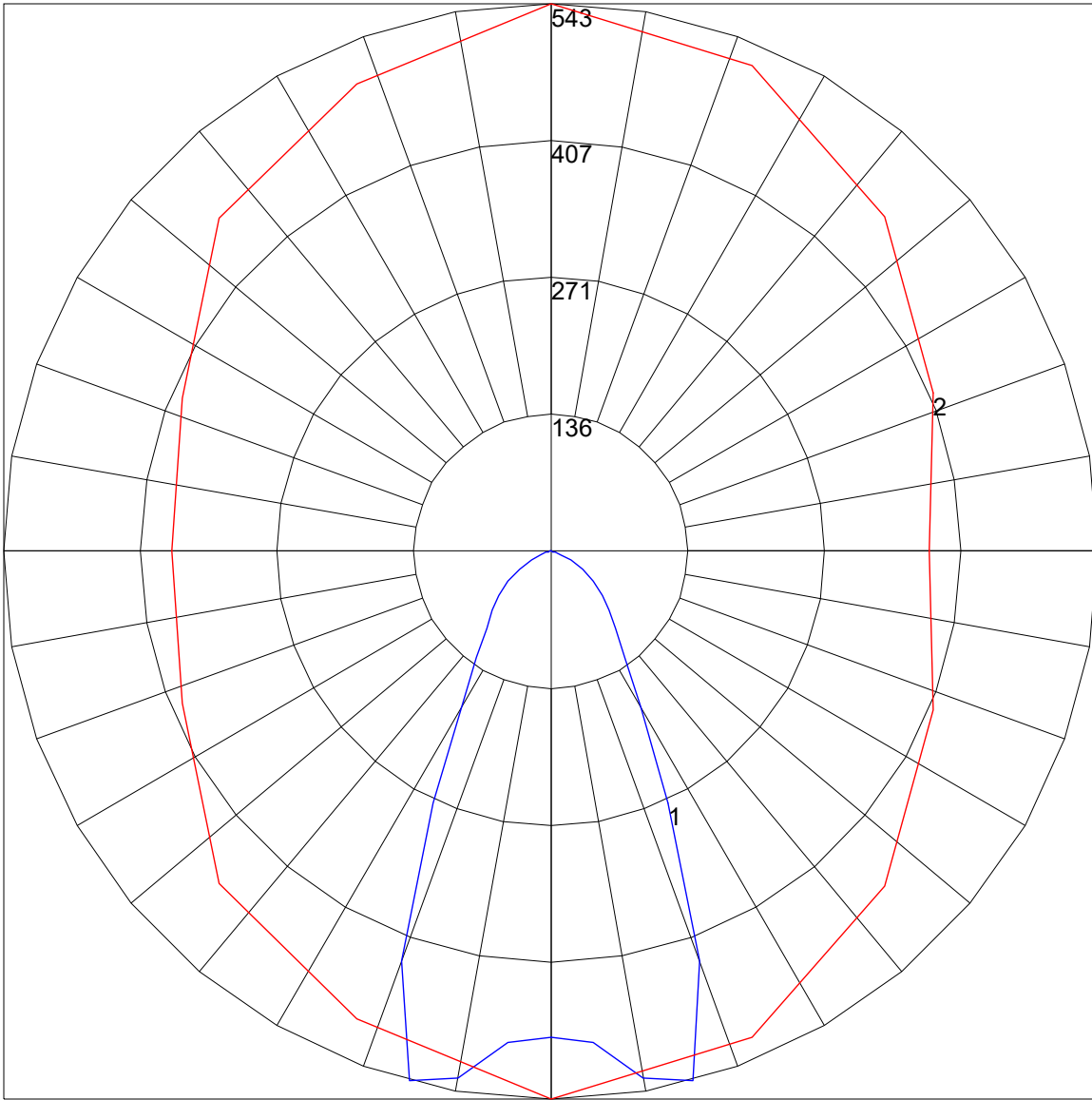
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**UGR TABLE - CORRECTED**

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	1.5	2.6	1.8	2.9	3.2	10.2	11.3	10.6	11.6	12.0
	3H	2.2	3.2	2.5	3.5	3.8	10.7	11.7	11.1	12.0	12.4
	4H	2.4	3.3	2.8	3.7	4.1	10.8	11.7	11.2	12.1	12.4
	6H	2.5	3.3	2.9	3.7	4.1	10.8	11.6	11.2	12.0	12.4
	8H	2.5	3.3	2.9	3.7	4.1	10.8	11.5	11.2	11.9	12.3
	12H	2.4	3.2	2.9	3.6	4.0	10.7	11.5	11.2	11.8	12.3
4H	2H	1.7	2.6	2.1	3.0	3.4	10.0	10.9	10.4	11.3	11.6
	3H	2.6	3.3	3.0	3.7	4.1	10.6	11.3	11.0	11.7	12.1
	4H	2.8	3.5	3.3	3.9	4.4	10.7	11.3	11.1	11.7	12.2
	6H	3.0	3.6	3.5	4.0	4.5	10.7	11.2	11.1	11.7	12.2
	8H	3.0	3.5	3.4	3.9	4.4	10.6	11.2	11.1	11.6	12.1
	12H	2.9	3.4	3.4	3.9	4.3	10.6	11.1	11.1	11.5	12.0
8H	4H	3.0	3.5	3.5	4.0	4.5	10.5	11.0	11.0	11.5	12.0
	6H	3.2	3.6	3.7	4.1	4.6	10.5	11.0	11.0	11.5	11.9
	8H	3.2	3.6	3.7	4.1	4.6	10.5	10.9	11.1	11.4	11.9
	12H	3.2	3.5	3.7	4.0	4.6	10.5	10.8	11.0	11.3	11.9
12H	4H	3.0	3.5	3.5	4.0	4.4	10.5	10.9	10.9	11.4	11.9
	6H	3.2	3.6	3.8	4.1	4.6	10.5	10.9	11.0	11.3	11.9
	8H	3.3	3.6	3.8	4.1	4.7	10.5	10.8	11.0	11.3	11.9

Maximum UGR = 12.4

POLAR GRAPH



Maximum Candela = 542.64 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.)