

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 707-Z2-48-Z-359-B3WB-WH-LO.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L072413212 (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-B3WB-WH-LO
[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, Zipper Board, 120° 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	680
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	52
Total Luminaire Watts	13.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.96
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.20
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	3426	2705	2555
55	2692	1586	1584
65	2133	929	895
75	1347	387	348
85	363	53	56

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>
0.0	353.22	353.22	353.22	353.22	353.22	353.22	353.22	353.22	353.22
2.5	349.86	350.70	351.54	353.64	354.48	353.64	351.96	350.28	349.44
5.0	342.72	345.24	349.44	353.64	356.16	354.06	349.02	343.98	342.72
7.5	333.90	338.10	345.66	354.90	359.10	354.48	345.24	336.42	334.32
10.0	323.40	328.86	341.04	354.90	361.62	354.06	340.62	329.28	325.50
12.5	311.22	318.78	335.16	354.06	363.72	352.80	335.58	319.20	314.16
15.0	298.62	307.86	328.02	353.22	365.82	351.54	329.28	308.70	301.56
17.5	284.34	296.10	320.46	350.70	366.66	348.60	321.30	296.52	286.44
20.0	270.48	283.50	312.06	347.34	367.08	344.82	312.90	282.66	273.00
22.5	256.20	270.06	301.56	342.72	366.66	340.62	301.98	270.06	259.14
25.0	240.66	255.78	290.64	336.42	363.30	333.48	289.80	255.78	242.76
27.5	225.96	241.92	278.04	328.02	356.16	323.40	278.04	239.82	227.64
30.0	211.26	226.80	265.02	316.26	342.72	310.38	265.44	224.70	212.52
32.5	195.72	211.68	250.74	300.72	321.72	292.74	249.90	208.74	196.56
35.0	180.18	195.72	235.20	279.72	294.00	268.80	233.10	192.78	181.02
37.5	165.48	179.76	217.98	254.10	261.66	242.34	216.72	176.40	166.32
40.0	150.78	164.22	199.08	227.22	229.32	214.20	197.40	160.02	150.78
42.5	135.24	148.26	179.34	198.66	200.34	187.32	176.82	143.64	136.08
45.0	120.96	132.30	160.02	173.46	174.72	163.80	157.08	127.68	120.54
47.5	107.10	116.34	139.86	151.20	153.30	142.80	136.92	112.14	106.26
50.0	95.76	101.22	121.38	131.88	135.24	125.58	118.44	97.44	95.76
52.5	86.52	89.88	105.00	115.92	120.54	110.04	102.06	86.52	86.52
55.0	78.12	80.64	89.88	101.64	106.68	97.02	88.20	78.12	78.12
57.5	70.56	71.82	77.28	89.04	94.50	84.84	76.44	69.30	69.72
60.0	62.16	63.42	66.78	77.70	82.32	73.92	65.94	60.90	62.16
62.5	53.34	55.44	57.54	66.36	69.72	62.58	56.70	53.34	53.34
65.0	46.62	47.46	48.72	55.44	57.54	51.66	47.46	44.94	46.62
67.5	39.48	40.32	40.32	45.36	46.20	42.42	39.48	37.80	38.64
70.0	31.50	32.34	32.34	36.12	36.54	32.76	31.92	30.24	31.08
72.5	25.20	25.20	24.36	27.30	27.72	25.20	23.94	23.10	24.78
75.0	18.90	18.48	18.06	20.16	20.58	18.06	18.06	17.22	18.90
77.5	13.44	13.44	13.02	14.28	14.70	12.60	12.60	11.76	12.60
80.0	8.40	8.40	8.40	9.66	9.66	8.40	7.98	7.56	8.40
82.5	5.04	5.04	4.62	5.88	6.30	5.04	4.62	4.20	4.20
85.0	2.10	2.10	2.10	3.36	2.94	2.10	2.10	1.26	2.10
87.5	0.00	0.00	0.84	1.26	1.26	0.84	0.84	0.00	0.00
90.0	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	126.19	N.A.	18.60
0-30	262.03	N.A.	38.50
0-40	407.91	N.A.	60.00
0-60	606.24	N.A.	89.20
0-80	676.57	N.A.	99.50
0-90	679.89	N.A.	100.00
10-90	646.78	N.A.	95.10
20-40	281.72	N.A.	41.40
20-50	398.85	N.A.	58.70
40-70	248.17	N.A.	36.50
60-80	70.34	N.A.	10.30
70-80	20.49	N.A.	3.00
80-90	3.32	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	679.89	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	33.11
10-20	93.08
20-30	135.84
30-40	145.88
40-50	117.13
50-60	81.19
60-70	49.84
70-80	20.49
80-90	3.32
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	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76
3	95	86	79	73	92	84	78	72	81	76	71	79	74	70	76	72	69	67
4	88	77	69	64	85	76	69	63	73	67	62	71	66	62	69	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52
6	76	64	56	50	74	63	55	50	61	54	49	59	54	49	58	53	49	47
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	53	48	44	42
8	66	54	46	41	65	53	46	40	52	45	40	51	45	40	49	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	40	36	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	37	33	32

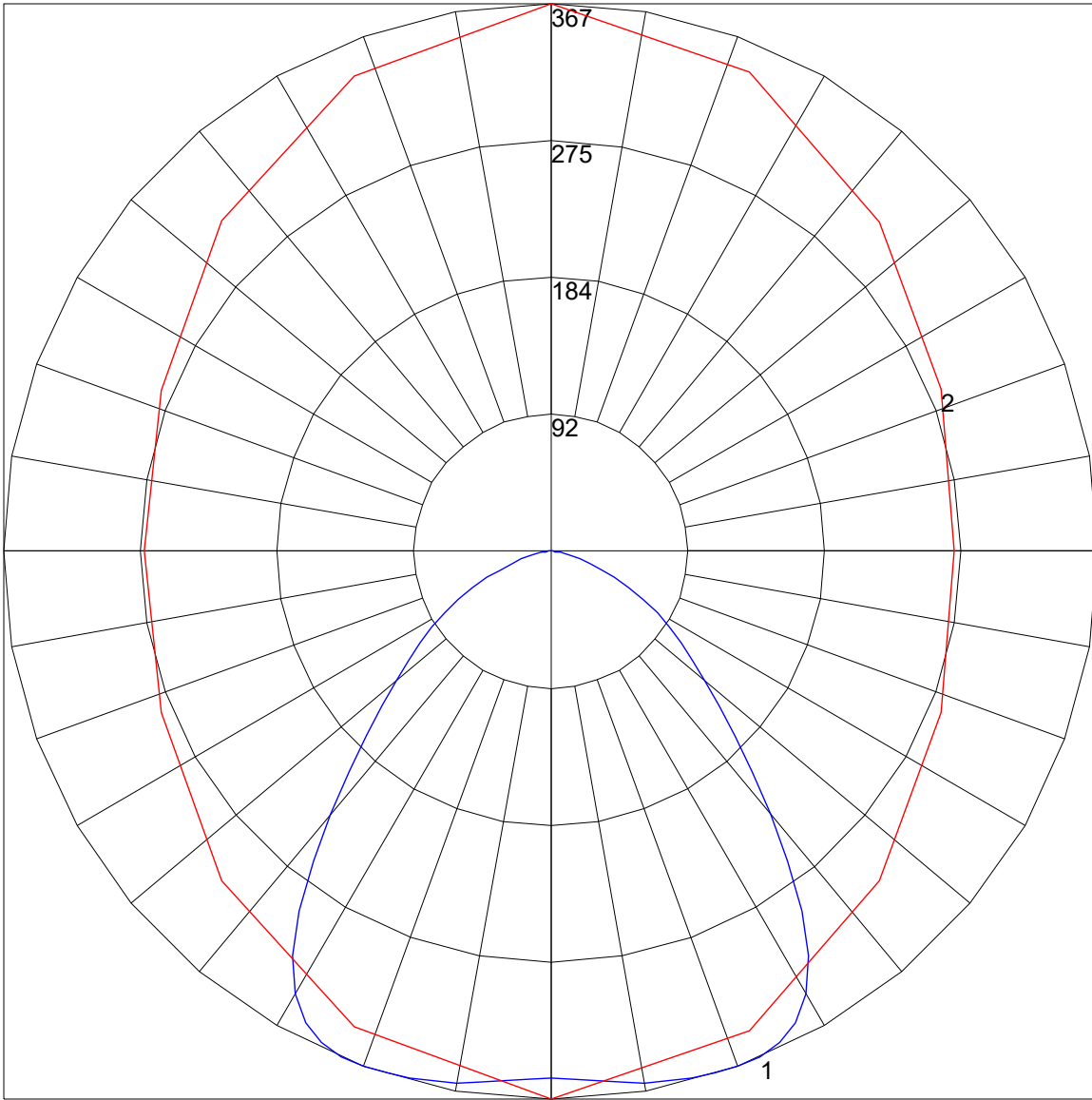
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UGR TABLE - CORRECTED

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	11.2	12.6	11.5	12.9	13.2	14.3	15.8	14.7	16.1	16.4
	3H	12.1	13.4	12.5	13.7	14.1	15.4	16.7	15.8	17.0	17.4
	4H	12.3	13.5	12.7	13.9	14.2	15.6	16.8	16.0	17.2	17.6
	6H	12.4	13.5	12.8	13.8	14.2	15.8	16.9	16.2	17.2	17.6
	8H	12.3	13.4	12.8	13.8	14.2	15.8	16.8	16.2	17.2	17.6
	12H	12.3	13.3	12.8	13.7	14.1	15.8	16.8	16.2	17.1	17.6
4H	2H	11.7	12.9	12.1	13.2	13.6	14.4	15.6	14.8	16.0	16.3
	3H	12.7	13.7	13.2	14.1	14.5	15.6	16.6	16.0	17.0	17.4
	4H	13.0	13.9	13.4	14.3	14.7	15.9	16.8	16.3	17.2	17.6
	6H	13.1	13.8	13.5	14.3	14.7	16.0	16.8	16.5	17.2	17.7
	8H	13.0	13.8	13.5	14.2	14.7	16.0	16.8	16.5	17.2	17.7
	12H	13.0	13.7	13.5	14.1	14.6	16.0	16.7	16.5	17.2	17.6
8H	4H	13.1	13.8	13.5	14.2	14.7	15.8	16.6	16.3	17.0	17.5
	6H	13.2	13.8	13.7	14.2	14.7	16.0	16.6	16.5	17.1	17.6
	8H	13.2	13.7	13.7	14.2	14.7	16.0	16.5	16.5	17.1	17.6
	12H	13.1	13.6	13.6	14.1	14.7	16.0	16.5	16.5	17.0	17.6
12H	4H	13.0	13.7	13.5	14.2	14.6	15.8	16.4	16.3	16.9	17.4
	6H	13.1	13.7	13.7	14.1	14.7	16.0	16.5	16.5	17.0	17.5
	8H	13.1	13.6	13.7	14.1	14.7	16.0	16.5	16.5	17.0	17.5

Maximum UGR = 17.7

POLAR GRAPH



Maximum Candela = 367.08 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.)