

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 707-Z2-48-Z-359-B2WB-WH-HO.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] 8/26/2024
[MANUFAC] Vode Lighting LLC
[LUMCAT] 707-Z2-48-Z-359-B2WB-WH-HO
[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, Zipper Board, 60° White Baffle, White Finish, High Output
[MORE] 3535 Low G;are, High Output, White
[TEST PROCEDURE] IESNA:LM-79-19

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2820
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	72
Total Luminaire Watts	39.4
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	15047	8520	6972
55	10916	5846	5108
65	8564	3631	3038
75	5587	1545	1189
85	1384	244	183

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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>
0.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0
2.5	1883.2	1886.4	1894.4	1902.4	1912.0	1904.0	1894.4	1886.4	1883.2
5.0	1852.8	1870.4	1897.6	1934.4	1952.0	1932.8	1899.2	1860.8	1851.2
7.5	1804.8	1838.4	1904.0	1976.0	2011.2	1974.4	1899.2	1817.6	1788.8
10.0	1736.0	1790.4	1908.8	2028.8	2092.8	2024.0	1894.4	1769.6	1729.6
12.5	1670.4	1740.8	1905.6	2096.0	2182.4	2078.4	1889.6	1728.0	1665.6
15.0	1609.6	1696.0	1905.6	2155.2	2217.6	2092.8	1886.4	1678.4	1590.4
17.5	1526.4	1644.8	1905.6	2129.6	2088.0	1990.4	1876.8	1616.0	1510.4
20.0	1443.2	1579.2	1872.0	1953.6	1787.2	1748.8	1819.2	1552.0	1427.2
22.5	1363.2	1512.0	1769.6	1659.2	1443.2	1438.4	1688.0	1484.8	1347.2
25.0	1280.0	1443.2	1590.4	1344.0	1152.0	1161.6	1497.6	1411.2	1260.8
27.5	1188.8	1363.2	1372.8	1089.6	960.0	960.0	1284.8	1324.8	1169.6
30.0	1094.4	1268.8	1158.4	923.2	825.6	820.8	1081.6	1225.6	1081.6
32.5	998.4	1158.4	974.4	798.4	724.8	721.6	913.6	1115.2	987.2
35.0	907.2	1036.8	833.6	704.0	648.0	643.2	784.0	993.6	892.8
37.5	808.0	910.4	723.2	633.6	593.6	584.0	686.4	868.8	796.8
40.0	716.8	792.0	633.6	576.0	548.8	536.0	609.6	752.0	702.4
42.5	622.4	675.2	566.4	532.8	510.4	497.6	544.0	643.2	614.4
45.0	531.2	571.2	504.0	492.8	476.8	460.8	491.2	545.6	520.0
47.5	448.0	484.8	454.4	456.0	443.2	428.8	441.6	460.8	443.2
50.0	392.0	409.6	411.2	422.4	414.4	395.2	400.0	393.6	388.8
52.5	353.6	358.4	369.6	387.2	379.2	360.0	360.0	347.2	352.0
55.0	316.8	320.0	331.2	350.4	344.0	328.0	324.8	310.4	316.8
57.5	284.8	288.0	294.4	313.6	308.8	292.8	289.6	278.4	281.6
60.0	252.8	252.8	256.0	278.4	270.4	257.6	252.8	244.8	249.6
62.5	219.2	220.8	222.4	241.6	235.2	220.8	219.2	211.2	217.6
65.0	187.2	190.4	190.4	203.2	195.2	187.2	187.2	180.8	185.6
67.5	158.4	160.0	158.4	169.6	158.4	152.0	153.6	152.0	158.4
70.0	128.0	129.6	126.4	134.4	123.2	121.6	124.8	121.6	128.0
72.5	102.4	102.4	97.6	102.4	96.0	92.8	96.0	94.4	99.2
75.0	78.4	76.8	72.0	76.8	70.4	67.2	70.4	70.4	75.2
77.5	54.4	54.4	51.2	54.4	48.0	46.4	49.6	48.0	54.4
80.0	35.2	35.2	32.0	36.8	32.0	32.0	32.0	30.4	32.0
82.5	19.2	20.8	19.2	22.4	19.2	19.2	19.2	16.0	19.2
85.0	8.0	9.6	9.6	12.8	9.6	8.0	8.0	8.0	8.0
87.5	0.0	1.6	1.6	3.2	3.2	3.2	1.6	0.0	0.0
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	708.72	N.A.	25.10
0-30	1333.37	N.A.	47.30
0-40	1849.05	N.A.	65.60
0-60	2539.3	N.A.	90.00
0-80	2807.17	N.A.	99.50
0-90	2819.92	N.A.	100.00
10-90	2638.43	N.A.	93.60
20-40	1140.33	N.A.	40.40
20-50	1536.34	N.A.	54.50
40-70	878.93	N.A.	31.20
60-80	267.87	N.A.	9.50
70-80	79.19	N.A.	2.80
80-90	12.75	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	2819.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	181.48
10-20	527.23
20-30	624.65
30-40	515.68
40-50	396.01
50-60	294.24
60-70	188.68
70-80	79.19
80-90	12.75
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	96	97	95	94	94	92	91	89
2	103	97	91	87	87	101	95	90	86	92	87	84	88	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	52	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

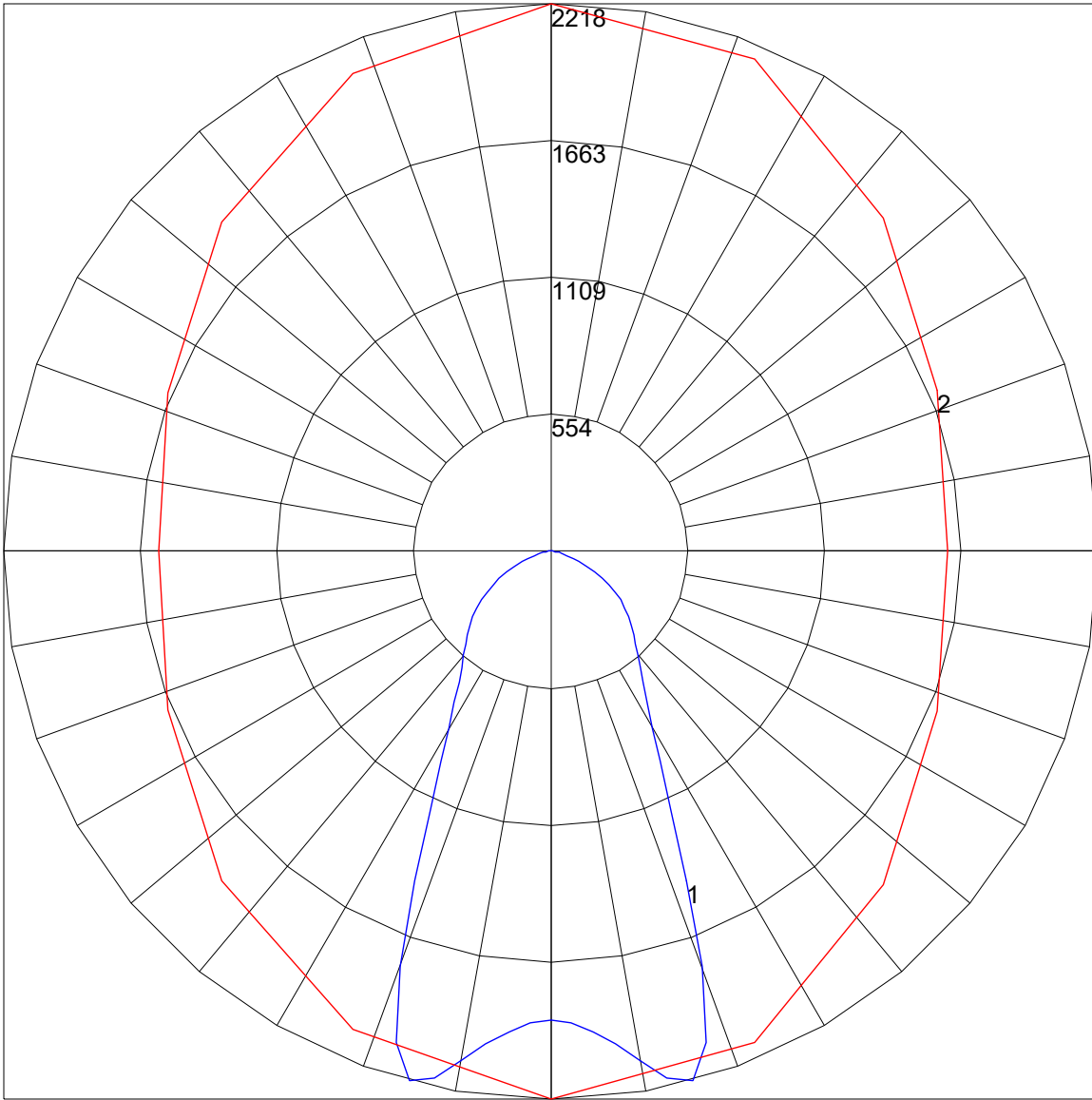
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UGR TABLE - CORRECTED

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	15.9	17.3	16.3	17.6	17.9	18.0	19.4	18.4	19.7	20.0
	3H	16.9	18.1	17.2	18.4	18.8	19.1	20.4	19.5	20.7	21.0
	4H	17.1	18.2	17.5	18.6	18.9	19.4	20.5	19.8	20.9	21.3
	6H	17.1	18.2	17.5	18.5	18.9	19.5	20.5	19.9	20.9	21.3
	8H	17.1	18.1	17.5	18.5	18.9	19.5	20.5	19.9	20.9	21.3
	12H	17.1	18.0	17.5	18.4	18.8	19.5	20.4	19.9	20.8	21.2
4H	2H	16.4	17.5	16.8	17.9	18.3	18.2	19.3	18.6	19.7	20.1
	3H	17.4	18.4	17.8	18.8	19.2	19.4	20.3	19.8	20.7	21.1
	4H	17.7	18.5	18.1	19.0	19.4	19.7	20.6	20.1	21.0	21.4
	6H	17.8	18.5	18.3	19.0	19.4	19.9	20.6	20.3	21.0	21.5
	8H	17.8	18.4	18.2	18.9	19.4	19.9	20.5	20.3	21.0	21.5
	12H	17.7	18.3	18.2	18.8	19.3	19.9	20.5	20.3	20.9	21.4
8H	4H	17.8	18.4	18.2	18.9	19.4	19.7	20.4	20.1	20.8	21.3
	6H	17.9	18.4	18.4	18.9	19.4	19.8	20.4	20.3	20.9	21.4
	8H	17.8	18.3	18.4	18.9	19.4	19.8	20.3	20.4	20.9	21.4
	12H	17.8	18.3	18.3	18.8	19.3	19.8	20.3	20.4	20.8	21.4
12H	4H	17.8	18.3	18.2	18.8	19.3	19.7	20.2	20.1	20.7	21.2
	6H	17.8	18.3	18.4	18.8	19.4	19.8	20.3	20.3	20.8	21.3
	8H	17.8	18.3	18.3	18.8	19.3	19.8	20.3	20.3	20.8	21.3

Maximum UGR = 21.5

POLAR GRAPH



Maximum Candela = 2217.6 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.)