

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 707-Z2-48-Z-359-B4GB-BL-HO.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] 8/27/2024
 [MANUFAC] Vode Lighting LLC
 [LUMCAT] 707-Z2-48-Z-359-B4GB-BL-HO
 [LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, Zipper Board, Bisymmetric, Graphite Baffle, Black Finish, High Output
 [MORE] 3535 Low Glare, High Output, Black
 [TEST PROCEDURE] IESNA:LM-79-19

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1451
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	37
Total Luminaire Watts	39.4
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	3898	2029	1685
55	937	537	903
65	366	153	249
75	228	69	54
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>
0	1243.2	1243.2	1243.2	1243.2	1243.2	1243.2	1243.2	1243.2	1243.2
5	1204.8	1248.0	1347.2	1364.8	1462.4	1488.0	1323.2	1235.2	1198.4
10	1110.4	1251.2	1564.8	1760.0	1931.2	1876.8	1531.2	1243.2	1115.2
15	998.4	1248.0	1718.4	2014.4	2089.6	1947.2	1680.0	1233.6	1000.0
20	875.2	1224.0	1625.6	1696.0	1473.6	1404.8	1609.6	1187.2	875.2
25	742.4	1134.4	1206.4	966.4	752.0	760.0	1190.4	1073.6	734.4
30	598.4	966.4	720.0	502.4	412.8	401.6	723.2	864.0	593.6
35	448.0	713.6	393.6	286.4	246.4	235.2	395.2	609.6	451.2
40	292.8	444.8	219.2	171.2	158.4	145.6	217.6	360.0	286.4
45	137.6	220.8	120.0	115.2	115.2	96.0	120.0	150.4	131.2
50	43.2	72.0	65.6	80.0	91.2	70.4	65.6	44.8	43.2
55	27.2	28.8	30.4	56.0	60.8	43.2	30.4	22.4	24.0
60	19.2	17.6	14.4	28.8	28.8	22.4	16.0	12.8	16.0
65	8.0	11.2	8.0	16.0	16.0	11.2	8.0	8.0	8.0
70	4.8	4.8	4.8	6.4	6.4	4.8	3.2	4.8	4.8
75	3.2	3.2	3.2	3.2	3.2	3.2	1.6	1.6	3.2
80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90	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	567.78	N.A.	39.10
0-30	1021.56	N.A.	70.40
0-40	1289.6	N.A.	88.90
0-60	1437.13	N.A.	99.00
0-80	1451.36	N.A.	100.00
0-90	1451.36	N.A.	100.00
10-90	1317.96	N.A.	90.80
20-40	721.82	N.A.	49.70
20-50	833.61	N.A.	57.40
40-70	158.97	N.A.	11.00
60-80	14.23	N.A.	1.00
70-80	2.79	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	1451.36	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	133.39
10-20	434.38
20-30	453.79
30-40	268.04
40-50	111.78
50-60	35.74
60-70	11.44
70-80	2.79
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	99	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	73	80	76	72	79	75	71	77	74	71	69	0
6	87	78	72	67	86	77	71	67	76	71	67	74	70	66	73	69	66	64	0
7	83	73	67	63	81	73	67	63	71	66	62	70	65	62	69	65	62	60	0
8	79	69	63	59	77	68	63	59	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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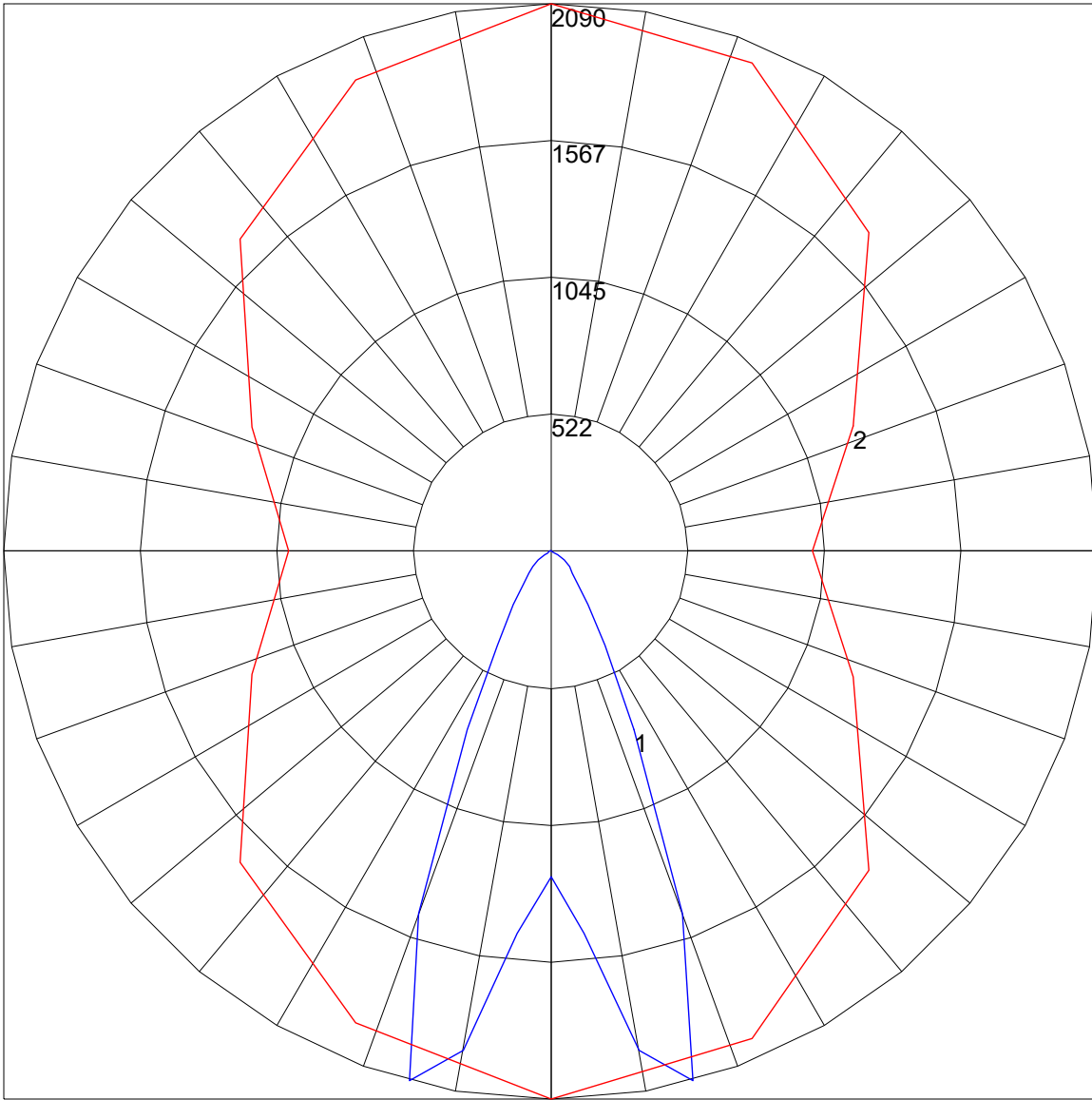
UGR TABLE - CORRECTED

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	1.3	2.2	1.5	2.5	2.8	6.4	7.5	6.8	7.8	8.1
	3H	1.3	2.2	1.7	2.6	2.9	6.6	7.5	6.9	7.8	8.2
	4H	1.3	2.2	1.7	2.5	2.9	6.5	7.4	6.9	7.7	8.1
	6H	1.3	2.0	1.6	2.4	2.8	6.4	7.2	6.8	7.6	8.0
	8H	1.3	1.9	1.6	2.3	2.7	6.4	7.1	6.8	7.5	7.9
	12H	1.3	1.8	1.6	2.2	2.6	6.3	7.0	6.8	7.4	7.8
4H	2H	1.3	1.9	1.5	2.3	2.7	6.2	7.0	6.6	7.4	7.8
	3H	1.3	2.0	1.7	2.4	2.8	6.4	7.0	6.8	7.4	7.8
	4H	1.3	1.9	1.7	2.3	2.8	6.3	6.9	6.7	7.3	7.8
	6H	1.3	1.7	1.7	2.2	2.7	6.2	6.7	6.7	7.2	7.6
	8H	1.3	1.6	1.6	2.1	2.6	6.1	6.6	6.6	7.1	7.5
	12H	1.3	1.5	1.6	2.0	2.5	6.1	6.5	6.6	7.0	7.5
8H	4H	1.3	1.7	1.7	2.1	2.6	6.1	6.6	6.6	7.1	7.5
	6H	1.3	1.5	1.6	2.0	2.5	6.0	6.4	6.5	6.9	7.4
	8H	1.3	1.4	1.6	1.9	2.4	5.9	6.3	6.5	6.8	7.3
	12H	1.3	1.3	1.5	1.8	2.4	5.9	6.2	6.4	6.7	7.3
12H	4H	1.3	1.6	1.6	2.1	2.5	6.1	6.5	6.6	7.0	7.4
	6H	1.3	1.4	1.6	1.9	2.4	5.9	6.3	6.5	6.8	7.3
	8H	1.3	1.3	1.5	1.8	2.4	5.9	6.2	6.4	6.7	7.3

Maximum UGR = 8.2

POLAR GRAPH



Maximum Candela = 2089.6 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.)