

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 707-Z2-48-Z-359-B3GB-BL-HO.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L072413211 (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-B3GB-BL-HO
 [LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, Zipper Board, 120° 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	963
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	24
Total Luminaire Watts	39.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.76
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.04
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	1677	3083	3299
55	551	706	1117
65	220	153	349
75	228	69	81
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	801.6	801.6	801.6	801.6	801.6	801.6	801.6	801.6	801.6
5	758.4	776.0	785.6	803.2	812.8	803.2	785.6	758.4	766.4
10	678.4	715.2	748.8	804.8	828.8	795.2	750.4	699.2	694.4
15	593.6	643.2	700.8	790.4	835.2	777.6	705.6	616.0	603.2
20	499.2	560.0	641.6	768.0	836.8	750.4	638.4	534.4	510.4
25	401.6	465.6	574.4	732.8	816.0	705.6	569.6	438.4	411.2
30	302.4	374.4	489.6	659.2	716.8	608.0	488.0	345.6	313.6
35	217.6	286.4	396.8	528.0	555.2	464.0	393.6	254.4	225.6
40	139.2	192.0	289.6	374.4	377.6	316.8	283.2	166.4	139.2
45	59.2	110.4	182.4	238.4	225.6	187.2	176.0	86.4	64.0
50	20.8	41.6	96.0	136.0	129.6	104.0	92.8	28.8	24.0
55	16.0	19.2	40.0	73.6	75.2	56.0	35.2	16.0	16.0
60	8.0	11.2	14.4	36.8	43.2	28.8	14.4	8.0	8.0
65	4.8	6.4	8.0	19.2	22.4	12.8	8.0	4.8	4.8
70	3.2	3.2	3.2	8.0	9.6	6.4	3.2	3.2	3.2
75	3.2	1.6	3.2	3.2	4.8	3.2	1.6	0.0	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	273.08	N.A.	28.30
0-30	541.04	N.A.	56.20
0-40	780.80	N.A.	81.00
0-60	949.17	N.A.	98.50
0-80	963.48	N.A.	100.00
0-90	963.48	N.A.	100.00
10-90	889.43	N.A.	92.30
20-40	507.72	N.A.	52.70
20-50	635.05	N.A.	65.90
40-70	180.00	N.A.	18.70
60-80	14.32	N.A.	1.50
70-80	2.68	N.A.	0.30
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	963.48	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	74.05
10-20	199.03
20-30	267.96
30-40	239.76
40-50	127.33
50-60	41.03
60-70	11.63
70-80	2.68
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
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	106	101	96	93	104	99	95	92	96	92	89	93	90	88	90	88	86	84
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	76
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	71	70
5	89	79	73	68	87	78	72	67	76	71	67	75	70	66	73	69	66	64
6	83	73	67	62	82	72	66	62	71	65	61	69	64	61	68	64	60	59
7	79	68	61	57	77	67	61	57	66	60	56	65	60	56	64	59	56	54
8	74	64	57	52	73	63	57	52	62	56	52	61	55	52	60	55	51	50
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46
10	66	56	49	45	65	55	49	45	54	49	45	53	48	45	53	48	44	43

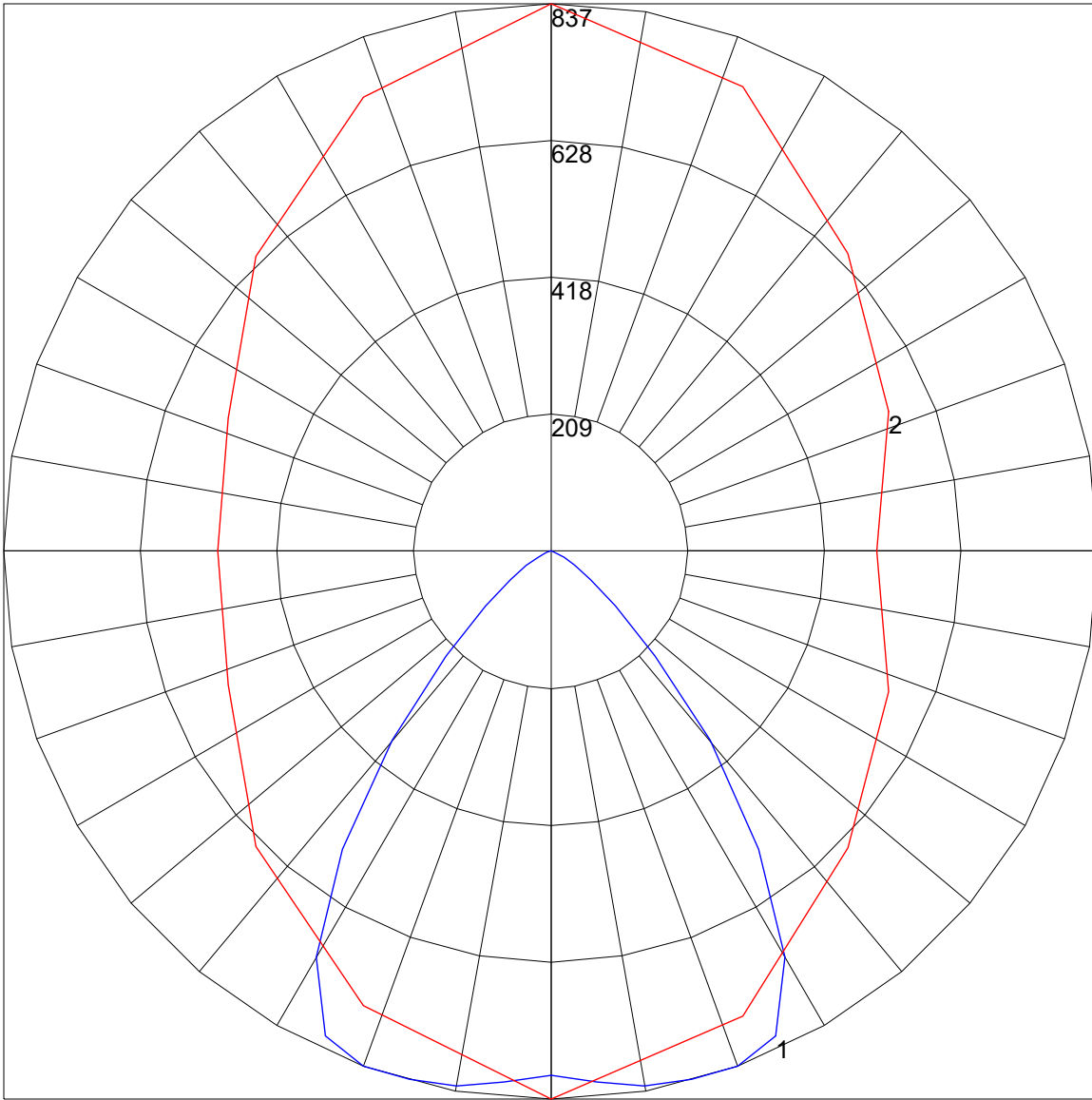
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UGR TABLE - CORRECTED

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	0.4	0.0	0.7	1.0	9.6	10.7	9.9	11.0	11.3
	3H	0.0	0.4	0.0	0.7	1.1	9.7	10.7	10.1	11.1	11.4
	4H	0.0	0.4	0.0	0.7	1.1	9.7	10.6	10.1	11.0	11.4
	6H	0.0	0.2	0.0	0.6	1.0	9.6	10.5	10.0	10.8	11.2
	8H	0.0	0.1	0.0	0.5	0.9	9.6	10.4	10.0	10.8	11.2
	12H	0.0	0.0	0.0	0.4	0.9	9.5	10.3	10.0	10.7	11.1
4H	2H	0.0	0.4	0.0	0.8	1.1	9.3	10.3	9.7	10.6	11.0
	3H	0.0	0.4	0.1	0.8	1.2	9.5	10.3	9.9	10.7	11.1
	4H	0.0	0.4	0.2	0.8	1.3	9.5	10.1	9.9	10.6	11.0
	6H	0.0	0.2	0.1	0.7	1.2	9.4	10.0	9.9	10.4	10.9
	8H	0.0	0.1	0.1	0.6	1.0	9.3	9.9	9.8	10.3	10.8
	12H	0.0	0.0	0.0	0.5	1.0	9.3	9.7	9.8	10.2	10.7
8H	4H	0.0	0.3	0.2	0.7	1.2	9.3	9.9	9.8	10.3	10.8
	6H	0.0	0.1	0.2	0.6	1.1	9.2	9.6	9.7	10.1	10.6
	8H	0.0	0.0	0.1	0.5	1.0	9.1	9.5	9.7	10.0	10.5
	12H	0.0	0.0	0.1	0.4	0.9	9.1	9.4	9.6	9.9	10.5
12H	4H	0.0	0.1	0.2	0.6	1.1	9.3	9.7	9.8	10.2	10.7
	6H	0.0	0.0	0.1	0.4	1.0	9.1	9.5	9.7	10.0	10.6
	8H	0.0	0.0	0.1	0.4	0.9	9.1	9.4	9.6	9.9	10.5

Maximum UGR = 11.4

POLAR GRAPH



Maximum Candela = 836.8 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.)