



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 107-WG-48-B-SO-35-4219-AL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L042011808 (SOURCE REPORT FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB
[ISSUE DATE] 6/1/2020
[MANUFAC] Vode Lighting
[LUMCAT] 107-WG-48-B-SO-35-4219-AL
[LUMINAIRE] WingRail LED, 48", 3500K, 80CRI, Button Board, 42° x 19° Optic,
[MORE] Clear Lens, Standard Output, Clear Anodized Finish
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2000
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	72
Total Luminaire Watts	27.97
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	3.64
Spacing Criterion (90-270)	1.02
Spacing Criterion (Diagonal)	2.06
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.12 ft
Luminous Width (90-270)	3.83 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	136636	31430	2667
55	65102	23420	1821
65	36935	13868	1442
75	19506	8295	1009
85	4328	2330	333

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	214.52	214.52	214.52	214.52	214.52	214.52	214.52	214.52	214.52	214.52
5.0	286.44	286.44	285.20	282.72	280.24	277.76	274.04	269.08	264.12	259.16
10.0	435.24	434.00	430.28	425.32	416.64	406.72	393.08	378.20	362.08	344.72
15.0	643.56	641.08	631.16	616.28	593.96	564.20	533.20	500.96	468.72	436.48
20.0	989.52	983.32	961.00	922.56	871.72	807.24	742.76	673.32	606.36	540.64
25.0	1506.60	1489.24	1434.68	1350.36	1241.24	1119.72	998.20	872.96	755.16	653.48
30.0	2292.76	2251.84	2141.48	1975.32	1775.68	1564.88	1352.84	1135.84	932.48	766.32
35.0	3666.68	3582.36	3366.60	3067.76	2720.56	2333.68	1912.08	1491.72	1138.32	882.88
37.5	4475.16	4374.72	4114.32	3794.40	3405.04	2881.76	2291.52	1713.68	1261.08	994.48
40.0	4981.08	4874.44	4642.56	4367.28	3996.52	3412.48	2666.00	1923.24	1344.16	1019.28
42.5	4839.72	4759.12	4591.72	4445.40	4181.28	3669.16	2878.04	2039.80	1399.96	1008.12
45.0	4129.20	4073.40	3986.60	3953.12	3875.00	3483.16	2793.72	1997.64	1352.84	949.84
47.5	3232.68	3194.24	3129.76	3129.76	3131.00	2909.04	2389.48	1774.44	1248.68	892.80
50.0	2503.56	2468.84	2403.12	2362.20	2343.60	2207.20	1887.28	1453.28	1067.64	786.16
52.5	1980.28	1950.52	1882.32	1814.12	1750.88	1628.12	1419.80	1150.72	891.56	675.80
55.0	1595.88	1571.08	1499.16	1424.76	1342.92	1226.36	1077.56	912.64	740.28	574.12
57.5	1293.32	1273.48	1210.24	1137.08	1052.76	948.60	845.68	731.60	600.16	448.88
60.0	1039.12	1025.48	974.64	907.68	832.04	748.96	674.56	591.48	486.08	385.64
62.5	833.28	824.60	779.96	724.16	663.40	595.20	540.64	479.88	396.80	313.72
65.0	667.12	659.68	627.44	585.28	531.96	477.40	434.00	385.64	314.96	250.48
67.5	522.04	517.08	496.00	467.48	426.56	385.64	348.44	305.04	250.48	199.64
70.0	414.16	410.44	391.84	368.28	337.28	307.52	277.76	239.32	198.40	156.24
72.5	322.40	318.68	307.52	288.92	264.12	239.32	215.76	186.00	152.52	121.52
75.0	215.76	214.52	210.80	203.36	190.96	177.32	162.44	141.36	116.56	91.76
77.5	114.08	114.08	114.08	116.56	116.56	114.08	107.88	99.20	85.56	66.96
80.0	55.80	55.80	54.56	52.08	50.84	49.60	52.08	55.80	54.56	45.88
85.0	16.12	16.12	16.12	13.64	12.40	11.16	9.92	8.68	8.68	8.68
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0.0	214.52	214.52	214.52	214.52	214.52	214.52	214.52	214.52	214.52	214.52
5.0	254.20	249.24	243.04	238.08	233.12	226.92	221.96	217.00	212.04	207.08
10.0	326.12	307.52	288.92	271.56	254.20	239.32	224.44	213.28	202.12	193.44
15.0	403.00	370.76	338.52	305.04	275.28	246.76	223.20	204.60	189.72	176.08
20.0	477.40	416.64	375.72	332.32	291.40	254.20	220.72	194.68	174.84	158.72
25.0	559.24	478.64	410.44	345.96	295.12	251.72	213.28	182.28	158.72	140.12
30.0	626.20	515.84	421.60	359.60	297.60	243.04	199.64	167.40	141.36	124.00
35.0	700.60	558.00	427.80	349.68	277.76	221.96	178.56	146.32	122.76	106.64
37.5	716.72	565.44	426.56	337.28	261.64	208.32	166.16	135.16	112.84	97.96
40.0	731.60	555.52	419.12	321.16	246.76	189.72	152.52	124.00	102.92	88.04
42.5	714.24	531.96	396.80	296.36	225.68	173.60	136.40	110.36	91.76	78.12
45.0	688.20	494.76	365.80	272.80	204.60	153.76	120.28	99.20	80.60	69.44
47.5	638.60	442.68	331.08	240.56	178.56	133.92	102.92	83.08	69.44	60.76
50.0	565.44	415.40	301.32	210.80	153.76	114.08	88.04	70.68	59.52	53.32
52.5	500.96	365.80	259.16	181.04	131.44	99.20	73.16	59.52	50.84	47.12
55.0	426.56	313.72	221.96	153.76	110.36	79.36	60.76	50.84	44.64	40.92
57.5	354.64	262.88	183.52	128.96	96.72	65.72	50.84	43.40	39.68	37.20
60.0	296.36	213.28	151.28	105.40	73.16	53.32	42.16	37.20	34.72	32.24
62.5	238.08	171.12	121.52	86.80	58.28	43.40	35.96	32.24	29.76	28.52
65.0	187.24	136.40	97.96	64.48	45.88	35.96	29.76	27.28	26.04	24.80
67.5	150.04	105.40	73.16	50.84	37.20	29.76	26.04	23.56	22.32	21.08
70.0	115.32	81.84	55.80	38.44	29.76	23.56	21.08	18.60	17.36	17.36

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CANDELA TABULATION - (Cont.)

72.5	86.80	62.00	42.16	29.76	23.56	18.60	16.12	14.88	13.64	13.64
75.0	65.72	45.88	32.24	23.56	18.60	14.88	12.40	11.16	11.16	11.16
77.5	48.36	33.48	24.80	18.60	13.64	11.16	9.92	8.68	7.44	8.68
80.0	34.72	24.80	18.60	13.64	11.16	8.68	6.20	6.20	6.20	4.96
85.0	8.68	7.44	7.44	6.20	4.96	3.72	2.48	2.48	1.24	1.24
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0.0	214.52	214.52	214.52	214.52	214.52	214.52	214.52	214.52	214.52	214.52
5.0	203.36	198.40	194.68	192.20	188.48	186.00	183.52	181.04	179.80	177.32
10.0	184.76	177.32	171.12	166.16	161.20	157.48	153.76	151.28	148.80	146.32
15.0	164.92	156.24	148.80	143.84	138.88	133.92	131.44	127.72	125.24	122.76
20.0	146.32	137.64	130.20	125.24	120.28	116.56	114.08	111.60	109.12	106.64
25.0	128.96	119.04	112.84	107.88	104.16	101.68	99.20	96.72	95.48	94.24
30.0	111.60	102.92	96.72	93.00	90.52	88.04	85.56	84.32	83.08	81.84
35.0	95.48	86.80	81.84	79.36	76.88	74.40	73.16	71.92	71.92	71.92
37.5	86.80	79.36	75.64	71.92	70.68	68.20	66.96	66.96	65.72	65.72
40.0	78.12	71.92	68.20	65.72	64.48	63.24	62.00	62.00	60.76	60.76
42.5	70.68	65.72	62.00	60.76	58.28	57.04	57.04	57.04	57.04	57.04
45.0	62.00	58.28	55.80	54.56	53.32	53.32	52.08	52.08	52.08	52.08
47.5	55.80	52.08	50.84	49.60	49.60	48.36	48.36	48.36	47.12	47.12
50.0	49.60	47.12	45.88	45.88	45.88	44.64	44.64	43.40	43.40	42.16
52.5	44.64	43.40	42.16	42.16	40.92	40.92	39.68	39.68	38.44	37.20
55.0	39.68	38.44	38.44	38.44	37.20	37.20	35.96	34.72	33.48	32.24
57.5	35.96	34.72	34.72	33.48	33.48	32.24	31.00	29.76	28.52	27.28
60.0	32.24	31.00	31.00	29.76	29.76	28.52	26.04	24.80	23.56	23.56
62.5	27.28	27.28	26.04	26.04	24.80	23.56	22.32	21.08	19.84	19.84
65.0	23.56	23.56	22.32	22.32	21.08	19.84	18.60	17.36	16.12	16.12
67.5	19.84	18.60	18.60	18.60	16.12	16.12	14.88	13.64	13.64	12.40
70.0	16.12	14.88	14.88	13.64	13.64	12.40	11.16	11.16	9.92	9.92
72.5	12.40	12.40	11.16	11.16	9.92	9.92	8.68	8.68	7.44	7.44
75.0	9.92	8.68	8.68	7.44	7.44	7.44	6.20	6.20	6.20	6.20
77.5	7.44	6.20	6.20	4.96	4.96	4.96	4.96	4.96	3.72	3.72
80.0	4.96	3.72	3.72	3.72	3.72	3.72	3.72	2.48	2.48	2.48
85.0	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0.0	214.52	214.52	214.52	214.52	214.52	214.52	214.52
5.0	176.08	174.84	173.60	173.60	172.36	172.36	172.36
10.0	143.84	142.60	141.36	141.36	140.12	140.12	140.12
15.0	120.28	119.04	119.04	119.04	119.04	119.04	119.04
20.0	105.40	105.40	105.40	105.40	105.40	105.40	105.40
25.0	93.00	93.00	93.00	93.00	94.24	95.48	95.48
30.0	81.84	81.84	81.84	84.32	86.80	89.28	90.52
35.0	70.68	71.92	73.16	75.64	79.36	83.08	84.32
37.5	65.72	66.96	68.20	70.68	74.40	78.12	79.36
40.0	60.76	62.00	62.00	64.48	66.96	70.68	71.92
42.5	57.04	57.04	57.04	58.28	59.52	62.00	63.24
45.0	52.08	50.84	50.84	50.84	52.08	53.32	53.32
47.5	47.12	45.88	44.64	44.64	44.64	44.64	44.64
50.0	40.92	39.68	38.44	38.44	37.20	37.20	37.20

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CANDELA TABULATION - (Cont.)

52.5	35.96	34.72	33.48	32.24	32.24	31.00	31.00
55.0	31.00	29.76	28.52	28.52	27.28	27.28	26.04
57.5	26.04	26.04	24.80	23.56	23.56	22.32	22.32
60.0	22.32	21.08	21.08	19.84	19.84	19.84	18.60
62.5	18.60	17.36	17.36	16.12	16.12	16.12	16.12
65.0	14.88	14.88	13.64	13.64	13.64	13.64	13.64
67.5	12.40	11.16	11.16	11.16	11.16	11.16	11.16
70.0	9.92	8.68	8.68	8.68	8.68	8.68	8.68
72.5	7.44	7.44	7.44	7.44	7.44	7.44	7.44
75.0	4.96	4.96	4.96	4.96	4.96	4.96	4.96
77.5	3.72	3.72	3.72	3.72	3.72	3.72	3.72
80.0	2.48	2.48	2.48	2.48	2.48	2.48	2.48
85.0	1.24	1.24	1.24	1.24	1.24	1.24	1.24
90.0	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	105.10	N.A.	5.30
0-30	309.00	N.A.	15.40
0-40	786.29	N.A.	39.30
0-60	1775.9	N.A.	88.80
0-80	1992.16	N.A.	99.60
0-90	2000.06	N.A.	100.00
10-90	1978.16	N.A.	98.90
20-40	681.19	N.A.	34.10
20-50	1329.87	N.A.	66.50
40-70	1147.12	N.A.	57.40
60-80	216.26	N.A.	10.80
70-80	58.75	N.A.	2.90
80-90	7.90	N.A.	0.40
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	2000.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	21.90
10-20	83.20
20-30	203.89
30-40	477.30
40-50	648.68
50-60	340.93
60-70	157.50
70-80	58.75
80-90	7.90
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

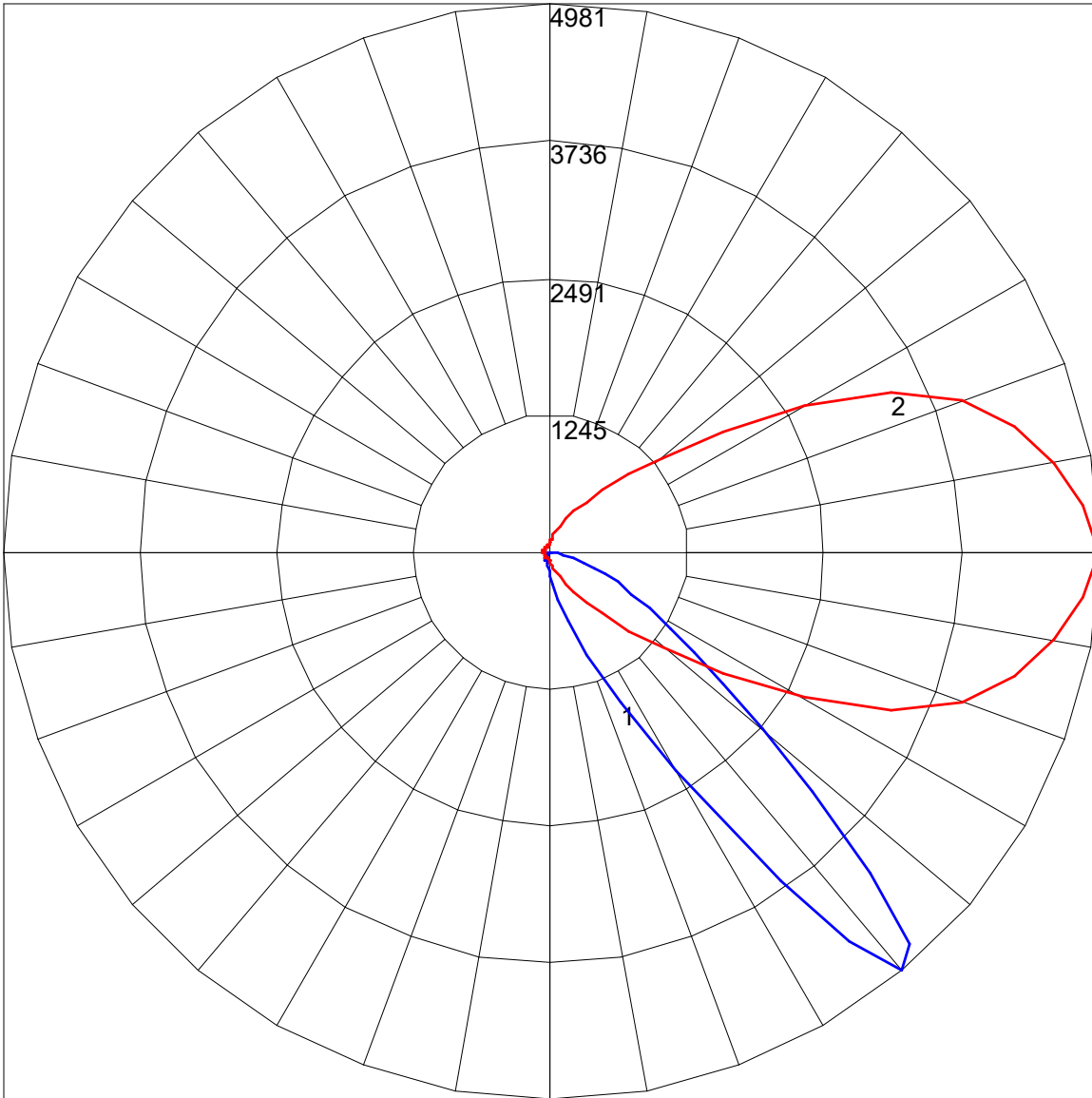
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	102	98	107	103	100	97	99	96	93	95	93	91	92	90	88	86
2	100	92	86	80	98	90	85	79	87	82	78	84	80	76	81	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	69	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31
8	58	44	35	29	57	44	35	29	42	35	29	41	34	29	40	33	29	27
9	54	40	31	26	52	39	31	25	38	31	25	37	30	25	36	30	25	23
10	50	36	28	22	49	36	28	22	35	27	22	34	27	22	33	26	22	20

POLAR GRAPH



Maximum Candela = 4981.08 Located At Horizontal Angle = 0, Vertical Angle = 40
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (40) (Through Max. Cd.)