



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 107-WG-48-B-SO-35-30-AL.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L042011806 (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-35-30-AL  
[LUMINAIRE] WingRail LED, 48", 3500K, 80CRI, Button Board, 30° 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	2235
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	27.97
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	3.92
Spacing Criterion (90-270)	0.94
Spacing Criterion (Diagonal)	1.74
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	154772	22855	2913
55	116950	15276	2276
65	65289	10161	1854
75	33294	7511	1345
85	11651	4328	666

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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>
<b>0.0</b>	274.04	274.04	274.04	274.04	274.04	274.04	274.04	274.04	274.04	274.04
<b>5.0</b>	375.72	375.72	373.24	370.76	367.04	362.08	357.12	350.92	344.72	337.28
<b>10.0</b>	616.28	613.80	606.36	593.96	576.60	555.52	531.96	505.92	477.40	450.12
<b>15.0</b>	1027.96	1020.52	999.44	965.96	921.32	866.76	807.24	741.52	674.56	606.36
<b>20.0</b>	1635.56	1616.96	1566.12	1488.00	1388.80	1271.00	1143.28	1018.04	892.80	770.04
<b>25.0</b>	2492.40	2455.20	2343.60	2172.48	1967.88	1736.00	1507.84	1284.64	1077.56	896.52
<b>30.0</b>	3545.16	3473.24	3273.60	2969.80	2592.84	2196.04	1830.24	1492.96	1201.56	961.00
<b>35.0</b>	4450.36	4347.44	4062.24	3619.56	3054.12	2507.28	2010.04	1578.52	1221.40	998.20
<b>37.5</b>	4738.04	4626.44	4197.40	3783.24	3186.80	2563.08	2024.92	1562.40	1190.40	934.96
<b>40.0</b>	4874.44	4746.72	4377.20	3840.28	3180.60	2544.48	1982.76	1520.24	1129.64	849.40
<b>42.5</b>	4855.84	4728.12	4318.92	3789.44	3113.64	2447.76	1887.28	1416.08	1046.56	775.00
<b>45.0</b>	4677.28	4542.12	4124.24	3586.08	2915.24	2289.04	1749.64	1310.68	994.48	690.68
<b>47.5</b>	4354.88	4177.56	3865.08	3321.96	2689.56	2085.68	1585.96	1168.08	844.44	605.12
<b>50.0</b>	3925.84	3804.32	3465.80	2954.92	2383.28	1862.48	1413.60	1037.88	739.04	522.04
<b>52.5</b>	3408.76	3298.40	2990.88	2560.60	2085.68	1621.92	1233.80	901.48	642.32	437.72
<b>55.0</b>	2866.88	2775.12	2529.60	2178.68	1775.68	1388.80	1060.20	772.52	539.40	374.48
<b>57.5</b>	2353.52	2281.60	2080.72	1799.24	1474.36	1168.08	894.04	648.52	436.48	311.24
<b>60.0</b>	1898.44	1847.60	1690.12	1470.64	1220.16	965.96	737.80	531.96	375.72	259.16
<b>62.5</b>	1505.36	1468.16	1359.04	1191.64	989.52	783.68	595.20	429.04	303.80	217.00
<b>65.0</b>	1179.24	1153.20	1071.36	943.64	782.44	621.24	450.12	344.72	246.76	183.52
<b>67.5</b>	910.16	892.80	834.52	735.32	612.56	456.32	365.80	270.32	203.36	153.76
<b>70.0</b>	688.20	675.80	636.12	560.48	446.40	365.80	282.72	214.52	163.68	125.24
<b>72.5</b>	508.40	499.72	468.72	415.40	342.24	276.52	219.48	171.12	132.68	102.92
<b>75.0</b>	368.28	362.08	338.52	300.08	255.44	208.32	169.88	136.40	107.88	83.08
<b>77.5</b>	250.48	246.76	233.12	212.04	186.00	157.48	131.44	106.64	85.56	65.72
<b>80.0</b>	148.80	146.32	140.12	130.20	119.04	105.40	91.76	78.12	64.48	50.84
<b>85.0</b>	43.40	42.16	39.68	35.96	32.24	27.28	23.56	21.08	17.36	16.12
<b>90.0</b>	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>
<b>0.0</b>	274.04	274.04	274.04	274.04	274.04	274.04	274.04	274.04	274.04	274.04
<b>5.0</b>	329.84	322.40	313.72	306.28	297.60	290.16	282.72	275.28	269.08	262.88
<b>10.0</b>	421.60	396.80	369.52	345.96	323.64	303.80	285.20	269.08	255.44	243.04
<b>15.0</b>	539.40	481.12	425.32	378.20	338.52	306.28	276.52	254.20	234.36	217.00
<b>20.0</b>	653.48	554.28	465.00	393.08	337.28	293.88	257.92	230.64	209.56	190.96
<b>25.0</b>	730.36	591.48	471.20	384.40	319.92	271.56	234.36	205.84	182.28	164.92
<b>30.0</b>	751.44	579.08	437.72	354.64	287.68	239.32	203.36	176.08	155.00	138.88
<b>35.0</b>	717.96	531.96	396.80	307.52	245.52	202.12	171.12	147.56	130.20	116.56
<b>37.5</b>	670.84	479.88	367.04	279.00	223.20	184.76	155.00	133.92	117.80	106.64
<b>40.0</b>	623.72	437.72	329.84	252.96	203.36	166.16	140.12	121.52	107.88	97.96
<b>42.5</b>	555.52	401.76	297.60	228.16	182.28	151.28	126.48	109.12	97.96	88.04
<b>45.0</b>	479.88	354.64	261.64	203.36	162.44	132.68	112.84	97.96	88.04	79.36
<b>47.5</b>	422.84	310.00	231.88	178.56	142.60	117.80	101.68	86.80	78.12	71.92
<b>50.0</b>	372.00	266.60	199.64	156.24	125.24	104.16	88.04	78.12	69.44	64.48
<b>52.5</b>	313.72	228.16	172.36	135.16	109.12	91.76	78.12	69.44	63.24	58.28
<b>55.0</b>	262.88	192.20	148.80	119.04	100.44	80.60	69.44	62.00	55.80	52.08
<b>57.5</b>	220.72	166.16	128.96	102.92	84.32	70.68	60.76	54.56	49.60	47.12
<b>60.0</b>	184.76	142.60	110.36	89.28	73.16	62.00	53.32	48.36	44.64	40.92
<b>62.5</b>	157.48	120.28	99.20	76.88	63.24	53.32	47.12	42.16	38.44	35.96
<b>65.0</b>	136.40	102.92	80.60	64.48	53.32	45.88	39.68	35.96	33.48	31.00
<b>67.5</b>	115.32	88.04	68.20	54.56	45.88	39.68	33.48	31.00	28.52	27.28
<b>70.0</b>	99.20	73.16	58.28	45.88	38.44	32.24	28.52	26.04	23.56	22.32

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**CANDELA TABULATION - (Cont.)**

<b>72.5</b>	79.36	60.76	48.36	38.44	31.00	26.04	22.32	21.08	19.84	17.36
<b>75.0</b>	64.48	50.84	39.68	31.00	24.80	19.84	18.60	16.12	14.88	13.64
<b>77.5</b>	50.84	40.92	32.24	26.04	19.84	16.12	13.64	12.40	11.16	9.92
<b>80.0</b>	39.68	32.24	24.80	19.84	16.12	12.40	9.92	8.68	7.44	6.20
<b>85.0</b>	14.88	13.64	12.40	9.92	8.68	6.20	4.96	2.48	2.48	1.24
<b>90.0</b>	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><b>100</b></u>	<u><b>105</b></u>	<u><b>110</b></u>	<u><b>115</b></u>	<u><b>120</b></u>	<u><b>125</b></u>	<u><b>130</b></u>	<u><b>135</b></u>	<u><b>140</b></u>	<u><b>145</b></u>
<b>0.0</b>	274.04	274.04	274.04	274.04	274.04	274.04	274.04	274.04	274.04	274.04
<b>5.0</b>	256.68	250.48	245.52	240.56	235.60	231.88	228.16	224.44	220.72	218.24
<b>10.0</b>	231.88	220.72	212.04	203.36	197.16	189.72	184.76	179.80	176.08	172.36
<b>15.0</b>	203.36	190.96	179.80	171.12	163.68	157.48	151.28	146.32	142.60	138.88
<b>20.0</b>	176.08	163.68	153.76	145.08	137.64	132.68	127.72	124.00	120.28	117.80
<b>25.0</b>	151.28	138.88	130.20	122.76	117.80	112.84	109.12	106.64	104.16	102.92
<b>30.0</b>	127.72	117.80	110.36	105.40	100.44	97.96	95.48	93.00	91.76	90.52
<b>35.0</b>	106.64	100.44	94.24	90.52	86.80	84.32	83.08	81.84	80.60	80.60
<b>37.5</b>	97.96	91.76	86.80	83.08	80.60	78.12	76.88	75.64	75.64	74.40
<b>40.0</b>	90.52	84.32	80.60	76.88	74.40	73.16	71.92	70.68	70.68	69.44
<b>42.5</b>	81.84	76.88	73.16	70.68	69.44	68.20	66.96	65.72	64.48	64.48
<b>45.0</b>	74.40	70.68	66.96	65.72	63.24	62.00	62.00	60.76	59.52	58.28
<b>47.5</b>	66.96	63.24	62.00	59.52	58.28	57.04	57.04	55.80	54.56	52.08
<b>50.0</b>	60.76	58.28	55.80	54.56	53.32	52.08	50.84	49.60	47.12	45.88
<b>52.5</b>	54.56	53.32	50.84	49.60	48.36	47.12	45.88	43.40	40.92	38.44
<b>55.0</b>	49.60	48.36	45.88	44.64	43.40	42.16	39.68	37.20	33.48	31.00
<b>57.5</b>	44.64	43.40	42.16	40.92	38.44	35.96	33.48	29.76	27.28	26.04
<b>60.0</b>	39.68	38.44	37.20	35.96	33.48	31.00	26.04	23.56	22.32	21.08
<b>62.5</b>	34.72	33.48	32.24	31.00	27.28	23.56	21.08	19.84	18.60	17.36
<b>65.0</b>	29.76	28.52	27.28	24.80	21.08	18.60	17.36	16.12	14.88	13.64
<b>67.5</b>	24.80	23.56	22.32	19.84	16.12	14.88	13.64	12.40	11.16	11.16
<b>70.0</b>	21.08	18.60	17.36	13.64	12.40	11.16	9.92	8.68	8.68	8.68
<b>72.5</b>	16.12	13.64	11.16	9.92	8.68	7.44	7.44	6.20	6.20	6.20
<b>75.0</b>	11.16	9.92	7.44	7.44	6.20	6.20	4.96	4.96	4.96	4.96
<b>77.5</b>	7.44	6.20	4.96	4.96	3.72	3.72	3.72	3.72	3.72	3.72
<b>80.0</b>	4.96	3.72	3.72	2.48	2.48	2.48	2.48	2.48	2.48	2.48
<b>85.0</b>	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	0.00	0.00
<b>90.0</b>	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><b>150</b></u>	<u><b>155</b></u>	<u><b>160</b></u>	<u><b>165</b></u>	<u><b>170</b></u>	<u><b>175</b></u>	<u><b>180</b></u>
<b>0.0</b>	274.04	274.04	274.04	274.04	274.04	274.04	274.04
<b>5.0</b>	215.76	214.52	213.28	210.80	210.80	209.56	209.56
<b>10.0</b>	168.64	166.16	164.92	162.44	162.44	161.20	161.20
<b>15.0</b>	136.40	135.16	132.68	131.44	130.20	130.20	130.20
<b>20.0</b>	115.32	114.08	112.84	111.60	111.60	111.60	111.60
<b>25.0</b>	101.68	100.44	100.44	100.44	100.44	101.68	101.68
<b>30.0</b>	90.52	90.52	90.52	91.76	94.24	95.48	96.72
<b>35.0</b>	79.36	79.36	80.60	83.08	85.56	88.04	89.28
<b>37.5</b>	74.40	74.40	74.40	76.88	79.36	81.84	83.08
<b>40.0</b>	69.44	68.20	68.20	69.44	70.68	73.16	74.40
<b>42.5</b>	63.24	62.00	62.00	60.76	62.00	63.24	63.24
<b>45.0</b>	57.04	55.80	53.32	53.32	52.08	53.32	53.32
<b>47.5</b>	49.60	48.36	45.88	44.64	44.64	43.40	43.40
<b>50.0</b>	43.40	40.92	38.44	37.20	35.96	35.96	34.72

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**CANDELA TABULATION - (Cont.)**

<b>52.5</b>	35.96	33.48	32.24	31.00	31.00	29.76	29.76
<b>55.0</b>	29.76	28.52	27.28	26.04	26.04	24.80	24.80
<b>57.5</b>	24.80	23.56	23.56	22.32	21.08	21.08	21.08
<b>60.0</b>	21.08	19.84	18.60	18.60	17.36	17.36	17.36
<b>62.5</b>	16.12	16.12	14.88	14.88	14.88	14.88	14.88
<b>65.0</b>	13.64	12.40	12.40	12.40	11.16	11.16	11.16
<b>67.5</b>	9.92	9.92	9.92	9.92	9.92	8.68	8.68
<b>70.0</b>	7.44	7.44	7.44	7.44	7.44	7.44	7.44
<b>72.5</b>	6.20	6.20	6.20	6.20	6.20	6.20	6.20
<b>75.0</b>	4.96	4.96	3.72	3.72	3.72	3.72	3.72
<b>77.5</b>	3.72	3.72	3.72	3.72	2.48	2.48	2.48
<b>80.0</b>	2.48	2.48	2.48	2.48	2.48	2.48	2.48
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	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	142.88	N.A.	6.40
0-30	430.40	N.A.	19.30
0-40	943.57	N.A.	42.20
0-60	1936.67	N.A.	86.60
0-80	2220.54	N.A.	99.30
0-90	2235.3	N.A.	100.00
10-90	2207.22	N.A.	98.70
20-40	800.69	N.A.	35.80
20-50	1380.95	N.A.	61.80
40-70	1199.45	N.A.	53.70
60-80	283.88	N.A.	12.70
70-80	77.52	N.A.	3.50
80-90	14.75	N.A.	0.70
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	2235.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	28.07
10-20	114.81
20-30	287.52
30-40	513.17
40-50	580.26
50-60	412.84
60-70	206.36
70-80	77.52
80-90	14.75
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

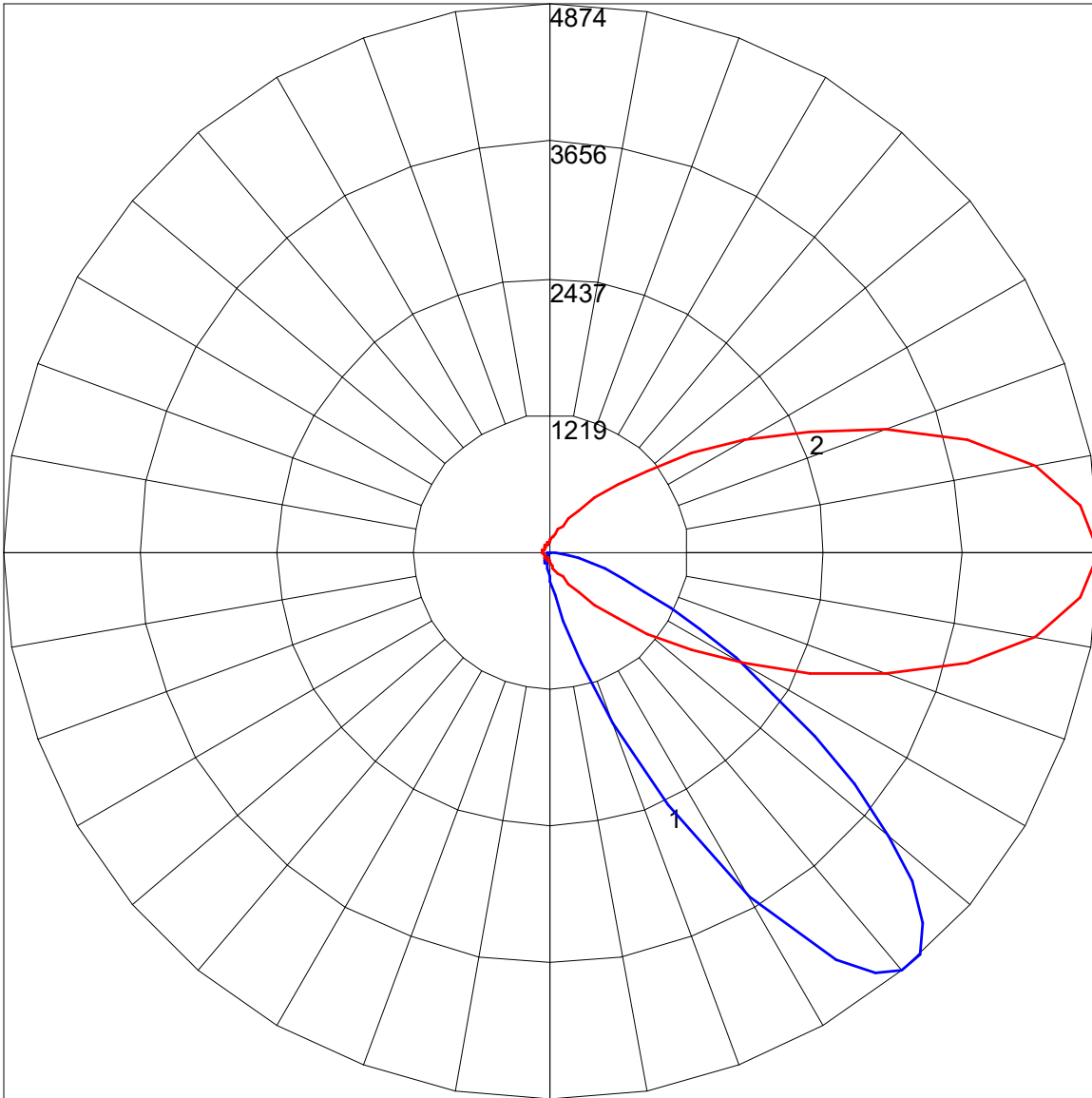
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	86
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	71	66	62	60
4	83	71	62	55	80	70	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	47	73	62	53	47	59	52	46	57	51	46	56	50	45	43
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	23	49	36	29	23	35	28	23	34	28	23	33	27	23	21

POLAR GRAPH



Maximum Candela = 4874.44 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.)