

IES Report

WingRail® | 107 | Diffuse | 80 CRI | SO

107-WG-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-35-D1-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	82	84	86	88
Total Lumens, 4' rail length (1219mm)	1957	2019	2060	2101
Lumens per foot (305mm)	489	505	515	525
Input Power (W), 4' rail length (1219mm)	24.1	24.1	24.1	24.1
Watts per foot (305mm)	6.1	6.1	6.1	6.1
CRI	85	85	85	85

Due to the large number of options in Vode's product offering, most Vode IES reports are factored reports prepared from source reports. Source reports are the IES test reports prepared for Vode by an NVLAP accredited photometric test laboratory. Factored reports are based on data from the Vode source reports.

If the data above is in black, it is directly from a Vode source report. If it is in grey, it is factored from Vode source reports. Reference details on Vode source reports can be found on the [IES File Finder](#) page on [vode.com](#).



IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_WG_SO_35_D1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L091700111 (SOURCE REPORT FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
[ISSUEDATE] 11/1/2017
[MANUFAC] Vode Lighting
[LUMCAT] 107-WG-48-Z-SO-35-D1
[LUMINAIRE] WingRail LED, 48", 3500K, 80 CRI, zipper board,
[MORE] diffuse lens, standard output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2060
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	24.06
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.13 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	14664	14652	14658
55	14037	14066	14117
65	12996	13102	13212
75	11100	11330	11567
85	8498	7830	8164

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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	725.302	725.302	725.302	725.302	725.302	725.302	725.302	725.302	725.302	725.302
5	722.030	721.740	721.648	721.694	721.984	722.030	722.077	722.077	722.135	722.274
10	712.495	712.159	711.915	712.205	712.310	712.310	712.205	712.402	712.310	712.356
15	696.220	695.930	695.501	695.640	695.838	695.838	695.838	695.838	695.930	695.884
20	673.589	673.392	673.055	673.148	673.299	673.345	673.345	673.299	673.345	673.252
25	645.169	644.832	644.542	644.635	644.740	644.682	644.635	644.589	644.496	644.450
30	611.169	610.972	610.589	610.682	610.728	610.833	610.589	610.589	610.496	610.392
35	571.961	571.776	571.532	571.532	571.625	571.671	571.486	571.439	571.335	571.288
40	528.136	527.997	527.754	527.754	527.939	527.846	527.800	527.707	527.603	527.556
45	480.078	479.880	479.590	479.683	479.730	479.880	479.730	479.730	479.730	479.683
50	428.249	427.959	427.912	427.959	428.110	428.110	428.156	428.202	428.110	428.202
55	372.766	372.673	372.580	372.766	372.917	372.963	372.963	373.102	373.300	373.543
60	314.975	314.975	314.778	314.836	315.068	315.265	315.404	315.694	315.891	316.181
65	254.295	254.527	254.527	254.632	254.922	255.061	255.444	255.687	256.024	256.360
70	193.221	193.268	193.511	193.662	193.848	194.230	194.520	194.857	195.298	195.773
75	133.017	133.307	133.168	133.412	133.597	133.934	134.328	134.804	135.233	135.766
80	76.966	77.059	77.012	77.059	77.152	77.349	77.592	77.778	78.161	78.648
85	34.290	34.104	33.907	33.710	33.420	33.037	32.700	32.364	31.935	31.598
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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>
0	725.302	725.302	725.302	725.302	725.302	725.302	725.302	725.302	725.302
5	722.181	722.181	722.228	722.181	722.077	722.228	722.228	722.228	722.320
10	712.356	712.449	712.356	712.310	712.310	712.263	712.263	712.263	712.205
15	695.838	695.884	695.791	695.791	695.687	695.733	695.791	695.687	695.733
20	673.299	673.148	673.148	673.055	673.009	672.962	673.009	672.962	672.904
25	644.345	644.345	644.252	644.160	644.160	644.113	644.113	644.113	644.009
30	610.253	610.253	610.056	609.963	610.009	609.719	609.870	609.766	609.719
35	571.242	571.149	571.091	571.045	570.952	570.906	570.998	571.091	570.998
40	527.510	527.464	527.417	527.371	527.313	527.266	527.313	527.313	527.371
45	479.590	479.637	479.730	479.730	479.637	479.590	479.730	479.880	479.880
50	428.295	428.342	428.295	428.492	428.492	428.539	428.632	428.782	428.632
55	373.636	373.682	374.065	374.170	374.402	374.355	374.599	374.842	374.889
60	316.367	316.657	316.854	317.190	317.330	317.573	317.770	317.817	317.770
65	256.743	257.091	257.520	257.717	257.996	258.239	258.390	258.622	258.529
70	196.214	196.643	197.177	197.467	197.745	198.093	198.186	198.372	198.232
75	136.103	136.729	137.216	137.646	137.936	138.272	138.411	138.469	138.608
80	79.135	79.750	80.376	80.956	81.246	81.687	81.826	81.780	81.780
85	31.262	31.158	31.262	31.494	31.981	32.515	32.851	32.898	32.944
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	264.96	N.A.	12.90
0-30	561.95	N.A.	27.30
0-40	919.30	N.A.	44.60
0-60	1623.09	N.A.	78.80
0-80	2020.99	N.A.	98.10
0-90	2060.24	N.A.	100.00
10-90	1991.63	N.A.	96.70
20-40	654.34	N.A.	31.80
20-50	1024.33	N.A.	49.70
40-70	957.51	N.A.	46.50
60-80	397.90	N.A.	19.30
70-80	144.17	N.A.	7.00
80-90	39.25	N.A.	1.90
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	2060.24	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	68.61
10-20	196.35
20-30	296.99
30-40	357.35
40-50	369.99
50-60	333.80
60-70	253.73
70-80	144.17
80-90	39.25
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

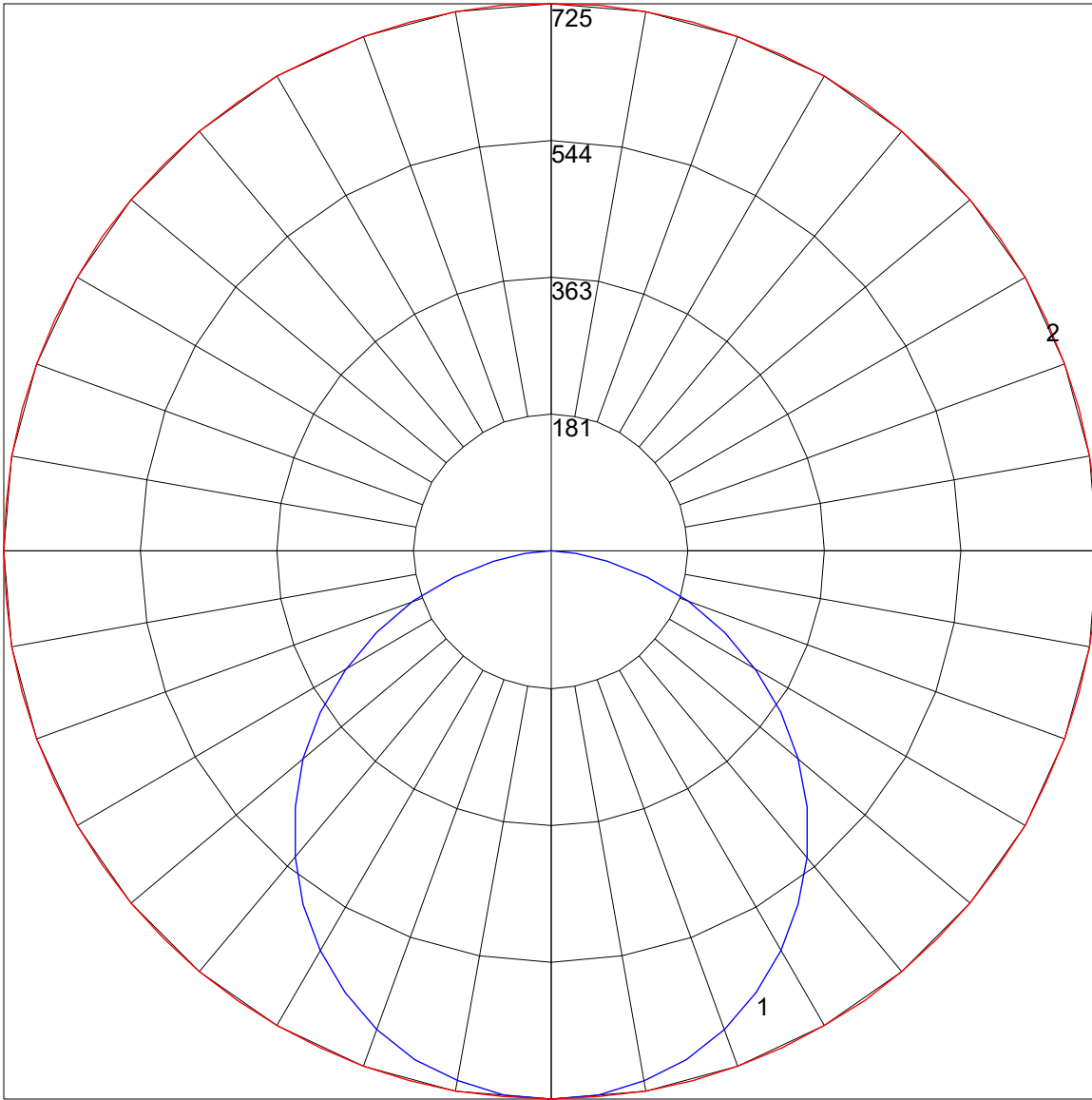
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	54	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 725.302 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)