

IES Report

RaceRail® | 107 | 120° Batwing Lens | 80 CRI | HO

107-RR-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-35-G1-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	114	117	120	120
Total Lumens, 4' rail length (1219mm)	5555	5730	5847	5847
Lumens per foot (305mm)	1389	1433	1462	1462
Input Power (W), 4' rail length (1219mm)	49.1	49.1	49.1	49.1
Watts per foot (305mm)	12.3	12.3	12.3	12.3
CRI	82	82	82	82

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\_RR\_HO\_35\_G1.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L121911515R01 (SOURCE REPORT FOR REFERENCE)  
 [TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB  
 [ISSUE DATE] 12/23/2019  
 [MANUFAC] Vode Lighting  
 [LUMCAT] 107-RR-48-Z-HO-35-G1-AL  
 [LUMINAIRE] RaceRail LED, 48", 3500K, 80 CRI, zipper board, 120° batwing lens,  
 [MORE] high 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	5836
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	49.06
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.07 ft
Luminous Width (90-270)	3.84 ft
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>10</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>15</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>20</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>25</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>30</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>35</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>40</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>45</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>50</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>55</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>60</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>65</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>70</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>75</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>80</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>85</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95</b>	137.390	137.390	137.104	136.642	135.630	134.068	131.670	128.722	124.762	118.118
<b>100</b>	341.176	341.264	341.902	342.276	341.990	339.592	334.532	326.128	312.488	293.766
<b>105</b>	574.442	574.178	574.068	573.628	571.582	567.358	559.416	545.116	524.194	494.868
<b>110</b>	825.616	825.528	824.978	823.306	818.884	811.888	799.150	778.954	748.990	708.136
<b>115</b>	1079.012	1078.814	1076.416	1072.742	1065.350	1052.722	1034.000	1006.060	967.252	916.718
<b>120</b>	1320.396	1318.834	1315.138	1308.032	1296.988	1278.728	1253.274	1217.854	1170.290	1108.866
<b>125</b>	1535.600	1533.576	1527.856	1517.450	1501.764	1477.982	1446.896	1404.678	1348.424	1276.330
<b>130</b>	1714.482	1712.282	1704.802	1692.350	1673.188	1645.050	1607.518	1556.918	1491.820	1411.410
<b>135</b>	1855.568	1852.422	1843.578	1827.716	1803.648	1770.098	1724.998	1665.906	1593.152	1507.770
<b>140</b>	1944.998	1941.038	1928.784	1909.314	1881.022	1841.356	1790.646	1727.572	1652.618	1566.950
<b>145</b>	1973.400	1968.428	1955.250	1933.470	1902.868	1861.376	1808.730	1746.954	1674.552	1591.854
<b>150</b>	1945.746	1941.588	1928.410	1906.190	1875.566	1835.086	1786.312	1728.034	1661.110	1588.532
<b>155</b>	1868.658	1865.248	1852.620	1832.424	1804.660	1768.712	1725.636	1675.476	1619.970	1559.492
<b>160</b>	1750.452	1747.218	1736.900	1720.488	1697.894	1668.942	1635.282	1598.410	1557.556	1515.602
<b>165</b>	1610.840	1608.552	1602.282	1592.228	1578.104	1560.416	1540.308	1517.340	1493.184	1467.840
<b>170</b>	1490.610	1489.598	1486.738	1481.392	1474.946	1467.004	1457.500	1447.270	1436.490	1424.676
<b>175</b>	1410.574	1410.112	1409.188	1408.088	1406.790	1404.590	1402.368	1399.794	1397.110	1394.448
<b>180</b>	1385.494	1385.494	1385.494	1385.494	1385.494	1385.494	1385.494	1385.494	1385.494	1385.494

Vert. 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>
<b>0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>10</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>15</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>20</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>25</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>30</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>35</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>40</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>45</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>50</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>55</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>60</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>70</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>75</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>80</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>85</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95</b>	107.976	96.360	85.008	75.064	68.508	64.548	62.612	61.600	59.202
<b>100</b>	269.984	244.266	219.274	197.978	183.128	173.448	167.090	162.294	158.972
<b>105</b>	457.798	417.054	376.398	340.428	314.336	296.076	283.822	275.418	271.634
<b>110</b>	657.536	599.610	541.904	489.522	450.428	422.114	403.678	391.886	387.640
<b>115</b>	850.784	778.140	704.088	635.580	583.660	545.776	520.960	506.132	500.874
<b>120</b>	1030.788	943.910	854.656	772.332	710.446	663.432	632.258	613.910	607.640
<b>125</b>	1186.966	1089.616	990.396	897.908	826.364	771.210	735.064	713.768	707.036
<b>130</b>	1313.400	1209.098	1105.566	1007.644	930.446	870.606	830.126	806.806	799.062
<b>135</b>	1408.264	1303.148	1198.406	1101.232	1022.934	961.356	919.666	895.224	886.842
<b>140</b>	1470.238	1370.468	1271.248	1178.298	1103.718	1045.066	1004.036	979.792	971.300
<b>145</b>	1503.612	1413.258	1323.806	1240.998	1174.888	1120.592	1082.972	1060.202	1052.436
<b>150</b>	1511.730	1434.004	1359.864	1291.620	1235.014	1189.364	1156.078	1135.992	1129.172
<b>155</b>	1497.892	1438.338	1381.622	1328.888	1285.460	1249.204	1222.936	1206.348	1200.892
<b>160</b>	1472.086	1431.958	1391.676	1354.782	1324.356	1299.364	1280.378	1268.300	1264.340
<b>165</b>	1441.748	1417.592	1393.788	1371.854	1353.682	1338.194	1326.666	1319.384	1317.074
<b>170</b>	1413.060	1401.532	1391.302	1380.698	1372.778	1365.034	1360.238	1357.092	1356.168
<b>175</b>	1391.478	1388.728	1386.044	1384.020	1382.172	1380.698	1379.774	1379.048	1379.048
<b>180</b>	1385.494	1385.494	1385.494	1385.494	1385.494	1385.494	1385.494	1385.494	1385.494

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	0.00	N.A.	0.00
0-80	0.00	N.A.	0.00
0-90	0.00	N.A.	0.00
10-90	0.00	N.A.	0.00
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	0.00	N.A.	0.00
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	612.76	N.A.	10.50
90-120	1445.31	N.A.	24.80
90-130	2502.6	N.A.	42.90
90-150	4571.15	N.A.	78.30
90-180	5836.21	N.A.	100.00
110-180	5223.45	N.A.	89.50
0-180	5836.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
90-100	130.79
100-110	481.97
110-120	832.55
120-130	1057.29
130-140	1100.83
140-150	967.73
150-160	714.18
160-170	416.82
170-180	134.05

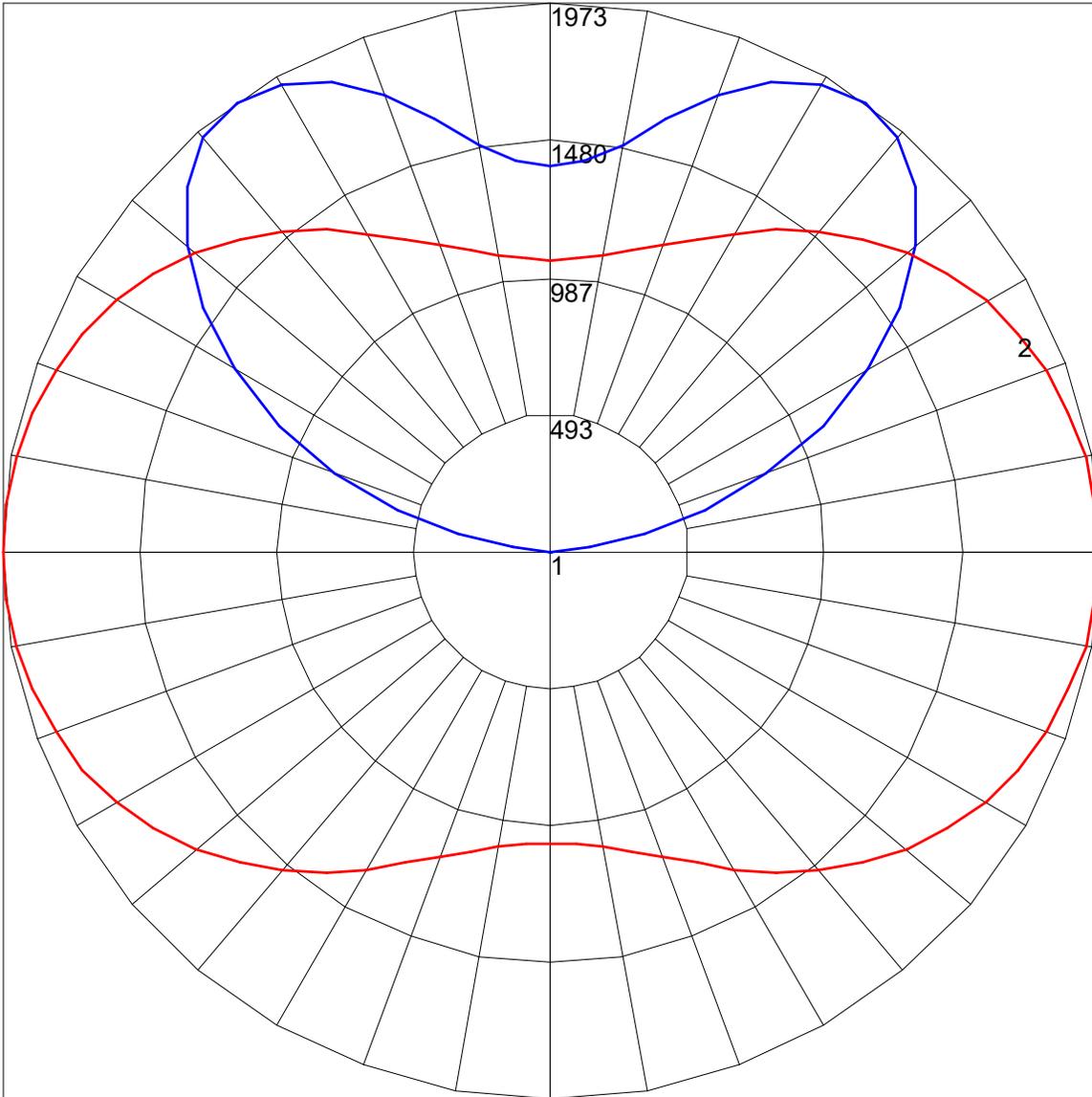
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	28	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

POLAR GRAPH



Maximum Candela = 1973.4 Located At Horizontal Angle = 0, Vertical Angle = 145  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (145) (Through Max. Cd.)