

IES Report

DoubleRace™ | 107 | Diffuse, Round, up | Diffuse, Round, down | 90 CRI | HO

107-DR-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-359-22-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	95	98	100	102
Total Lumens, 4' rail length (1219mm)	9274	9567	9762	9958
Lumens per foot (305mm)	2319	2392	2441	2489
Lumens per foot UP (305mm)	1164	1200	1225	1249
Lumens per foot DOWN (305mm)	1155	1191	1216	1240
Input Power (W), 4' rail length (1219mm)	98.4	98.4	98.4	98.4
Watts per foot (305mm)	24.7	24.7	24.7	24.7
CRI	96	96	96	96

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_DR_HO_359_22.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L071704220 (SOURCE REPORT FOR REFERENCE)
 [TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
 [ISSUEDATE] 11/1/2017
 [MANUFAC] Vode Lighting
 [LUMCAT] 107-DR-48-Z-HO-359-22
 [LUMINAIRE] DoubleRace LED, 48", 3500K, 90 CRI, zipper board,
 [MORE] round diffuse lens up/round diffuse lens down, high output
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9772
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	98.44
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.06 ft
Luminous Width (90-270)	3.75 ft
Luminous Height	0.21 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17443	21457	64145
55	11681	14893	51495
65	7488	9531	41637
75	4749	6005	31126
85	3003	3797	18798

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	1849.965	1849.965	1849.965	1849.965	1849.965	1849.965	1849.965	1849.965	1849.965	1849.965
5	1841.914	1840.905	1839.915	1839.236	1838.499	1837.859	1837.316	1836.889	1836.559	1836.346
10	1817.101	1815.258	1814.055	1813.105	1812.581	1812.445	1812.658	1809.942	1807.944	1806.528
15	1777.001	1774.402	1773.315	1772.908	1772.384	1768.426	1765.613	1764.003	1763.557	1761.345
20	1719.170	1715.755	1715.212	1714.475	1710.110	1707.627	1705.823	1701.322	1698.955	1695.560
25	1644.092	1640.930	1640.813	1636.487	1633.849	1629.872	1625.681	1624.711	1616.253	1609.715
30	1549.691	1546.587	1545.579	1541.699	1538.284	1534.113	1529.903	1522.570	1516.285	1507.962
35	1435.969	1433.175	1430.925	1429.586	1425.027	1421.302	1417.442	1406.849	1399.535	1389.622
40	1306.939	1304.883	1302.264	1299.587	1297.084	1293.611	1285.386	1278.053	1269.400	1258.323
45	1161.303	1160.683	1158.975	1157.385	1154.804	1152.011	1145.046	1140.060	1126.713	1115.655
50	1001.661	1000.865	1001.040	1001.738	1001.525	999.604	997.141	991.262	979.700	966.256
55	840.893	840.505	842.969	844.792	843.493	839.884	840.020	834.316	829.350	820.523
60	688.351	688.875	691.086	684.626	677.041	676.187	676.866	677.972	674.344	668.175
65	563.182	562.639	548.826	539.417	538.389	540.057	543.219	543.045	541.182	538.738
70	452.835	440.904	427.091	429.031	435.355	438.479	437.140	434.405	432.251	427.091
75	361.655	337.424	344.893	347.221	347.144	347.299	345.533	344.583	343.652	337.696
80	281.106	277.653	281.824	283.415	281.979	279.942	277.362	274.801	270.087	262.812
85	224.555	243.082	243.101	243.567	239.571	234.507	226.825	220.500	214.739	205.950
90	226.456	231.733	233.188	233.983	227.950	219.802	209.093	202.808	197.259	187.598
95	243.897	255.323	255.537	254.800	250.318	245.565	239.066	232.528	226.631	216.989
100	295.287	290.379	294.085	294.861	293.561	290.942	287.256	285.005	281.028	274.607
105	373.081	351.935	355.369	357.620	356.650	356.533	354.457	351.547	348.017	339.093
110	455.085	447.849	432.756	431.378	436.694	437.470	436.228	433.726	432.310	426.315
115	556.411	557.401	548.651	539.883	539.514	540.891	543.510	543.530	543.491	540.853
120	687.691	687.963	690.019	685.150	679.272	678.282	675.275	676.711	677.409	670.483
125	838.798	838.235	840.350	842.270	842.115	840.389	840.272	834.278	829.602	820.154
130	999.255	998.673	999.061	999.410	999.372	998.751	996.947	991.961	982.164	968.448
135	1160.333	1160.120	1158.490	1157.288	1155.154	1153.388	1148.053	1144.775	1132.397	1121.708
140	1311.440	1309.869	1306.745	1303.699	1301.352	1298.811	1291.574	1284.804	1276.598	1265.423
145	1442.565	1440.140	1438.044	1436.706	1432.166	1428.538	1424.736	1415.172	1408.886	1399.380
150	1558.402	1555.841	1555.259	1551.185	1547.713	1543.891	1540.244	1533.454	1527.653	1519.815
155	1654.723	1652.065	1652.531	1648.127	1645.392	1641.667	1637.961	1637.476	1629.503	1623.314
160	1732.207	1729.161	1728.889	1728.365	1723.923	1721.595	1720.120	1716.105	1714.320	1710.847
165	1791.493	1788.913	1787.807	1787.438	1787.070	1783.345	1780.707	1779.135	1778.592	1776.206
170	1832.737	1830.991	1829.827	1828.974	1828.528	1828.489	1828.799	1826.006	1823.949	1822.533
175	1857.705	1856.793	1855.901	1855.203	1854.543	1853.942	1853.457	1853.049	1852.758	1852.564
180	1864.340	1864.340	1864.340	1864.340	1864.340	1864.340	1864.340	1864.340	1864.340	1864.340

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	1849.965	1849.965	1849.965	1849.965	1849.965	1849.965	1849.965	1849.965	1849.965
5	1836.249	1836.268	1836.385	1836.617	1836.967	1837.413	1837.878	1838.577	1839.333
10	1805.733	1805.539	1805.868	1804.549	1803.715	1803.405	1803.599	1804.161	1805.519
15	1758.319	1754.808	1752.557	1751.568	1751.956	1749.628	1748.328	1747.901	1749.298
20	1690.788	1685.491	1681.805	1677.052	1674.763	1675.015	1672.047	1670.612	1672.455
25	1606.223	1598.114	1589.345	1584.243	1578.229	1574.329	1571.866	1569.305	1571.924
30	1499.154	1490.754	1481.636	1471.509	1465.010	1457.638	1454.787	1450.810	1453.526
35	1377.807	1368.263	1355.226	1343.547	1332.392	1323.837	1318.055	1313.632	1313.380
40	1245.635	1230.639	1215.235	1199.890	1186.232	1176.882	1168.093	1162.021	1159.538
45	1098.855	1082.656	1067.233	1049.152	1033.457	1020.828	1011.477	1005.521	1002.146
50	951.221	933.237	915.292	895.950	877.365	864.018	853.833	845.685	839.768
55	803.179	784.788	765.097	739.218	715.511	696.402	681.949	672.423	667.399
60	662.277	645.263	621.673	599.091	579.905	564.792	553.560	545.450	544.015

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CANDELA TABULATION - (Cont.)

65	531.696	516.292	497.513	476.251	455.570	437.334	425.073	415.645	412.386
70	418.012	405.402	387.049	365.729	344.990	325.357	311.913	304.095	300.428
75	327.860	315.677	296.781	273.171	250.745	230.685	212.818	203.487	203.778
80	254.567	241.220	221.975	201.236	176.171	157.567	145.616	134.869	137.740
85	195.416	180.245	162.165	145.364	120.746	97.252	75.912	60.082	56.221
90	174.794	157.547	137.410	116.633	92.383	67.900	45.260	25.783	8.226
95	204.709	191.012	176.482	148.837	124.548	99.270	74.166	59.306	56.066
100	261.415	245.585	226.417	200.247	174.096	156.577	145.830	140.243	139.176
105	326.657	313.485	294.531	271.716	250.221	231.229	214.583	205.679	206.028
110	416.033	403.442	385.653	365.341	346.057	328.714	314.513	305.686	303.649
115	532.802	518.038	499.666	478.967	459.586	442.514	428.410	419.389	421.252
120	662.083	646.874	626.154	604.873	586.501	572.921	563.007	553.657	550.456
125	804.246	786.379	767.309	745.406	722.204	704.123	690.116	679.776	674.810
130	955.256	940.260	921.034	901.790	883.592	869.605	858.508	851.330	849.119
135	1105.761	1091.948	1073.906	1056.796	1043.080	1032.623	1021.565	1014.601	1013.107
140	1252.871	1239.544	1224.935	1210.327	1197.581	1188.716	1179.947	1174.030	1171.624
145	1388.768	1380.776	1367.331	1355.944	1346.050	1337.979	1331.480	1327.018	1327.076
150	1511.357	1503.345	1494.498	1484.449	1478.358	1471.742	1469.317	1465.166	1467.862
155	1620.016	1612.237	1603.604	1598.327	1592.565	1589.733	1588.065	1584.941	1586.920
160	1705.784	1700.468	1697.073	1692.146	1689.391	1689.003	1686.597	1685.744	1688.227
165	1773.102	1769.649	1767.398	1766.370	1766.777	1765.031	1764.546	1765.012	1767.340
170	1821.757	1821.621	1822.029	1820.690	1819.856	1819.545	1819.778	1820.380	1821.776
175	1852.467	1852.467	1852.584	1852.797	1853.107	1853.515	1853.903	1854.582	1855.280
180	1864.340	1864.340	1864.340	1864.340	1864.340	1864.340	1864.340	1864.340	1864.340

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	670.96	N.A.	6.90
0-30	1410.89	N.A.	14.40
0-40	2273.74	N.A.	23.30
0-60	3825.79	N.A.	39.10
0-80	4661.5	N.A.	47.70
0-90	4867.66	N.A.	49.80
10-90	4693.14	N.A.	48.00
20-40	1602.78	N.A.	16.40
20-50	2449.2	N.A.	25.10
40-70	2059.84	N.A.	21.10
60-80	835.72	N.A.	8.60
70-80	327.93	N.A.	3.40
80-90	206.16	N.A.	2.10
90-110	545.21	N.A.	5.60
90-120	1054.72	N.A.	10.80
90-130	1762.44	N.A.	18.00
90-150	3481.96	N.A.	35.60
90-180	4904.75	N.A.	50.20
110-180	4359.54	N.A.	44.60
0-180	9772.41	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	174.52
10-20	496.43
20-30	739.93
30-40	862.85
40-50	846.42
50-60	705.63
60-70	507.79
70-80	327.93
80-90	206.16
90-100	212.79
100-110	332.42
110-120	509.51
120-130	707.72
130-140	850.44
140-150	869.08
150-160	746.03
160-170	500.72
170-180	176.04

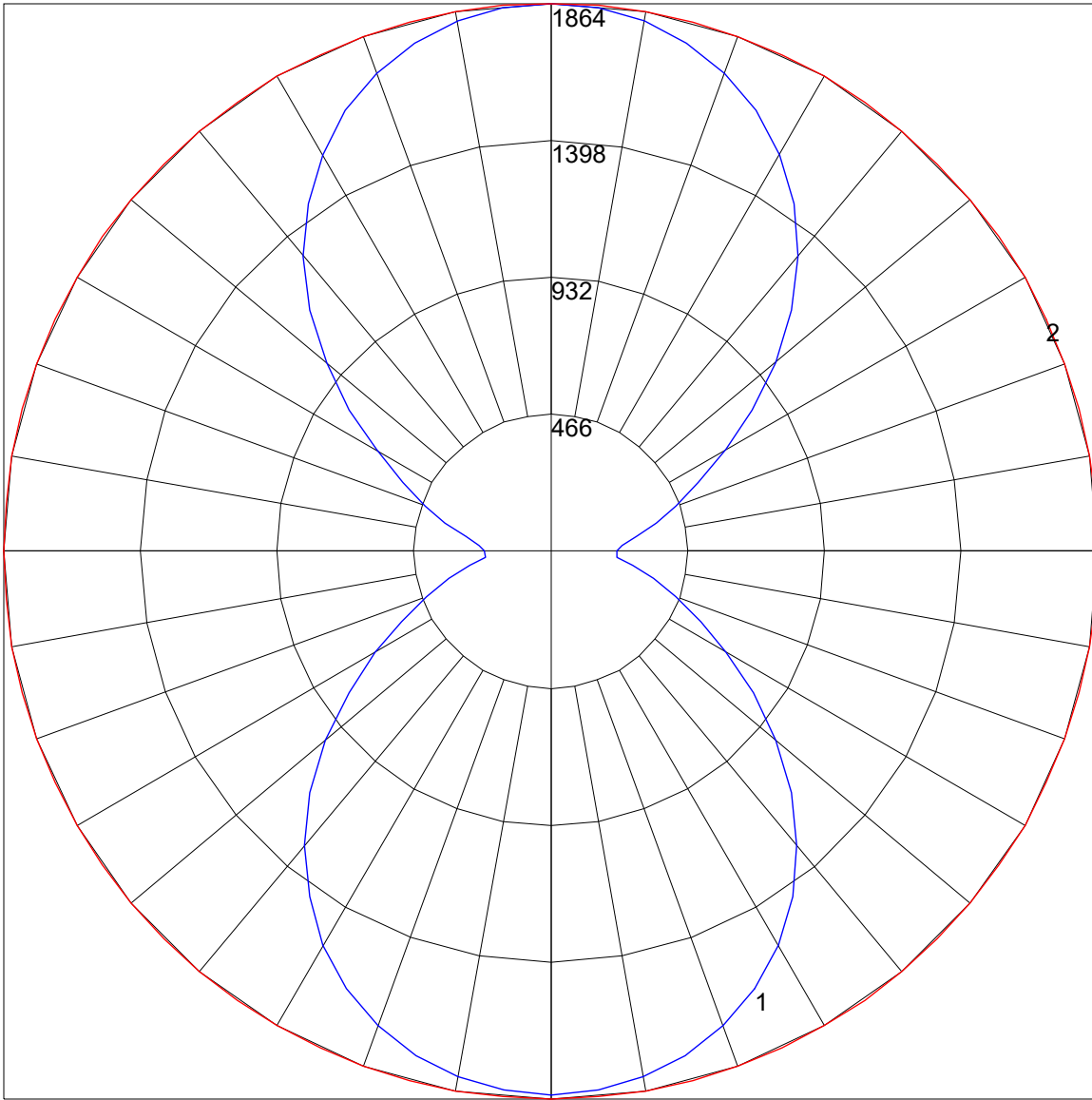
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	97	93	89	85	90	86	82	79	72	70	67	60	58	57	49	48	46	41
2	89	81	75	69	81	75	69	65	63	59	56	53	50	47	43	41	39	34
3	81	71	64	58	74	66	59	54	56	51	47	47	43	40	38	35	33	29
4	74	63	55	49	68	58	51	46	50	44	40	42	38	34	34	31	29	25
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	50	42	37	58	47	40	34	40	34	30	34	29	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	29	24	30	25	21	26	22	19	22	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	13

POLAR GRAPH



Maximum Candela = 1864.34 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)