

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	116	120	122	123
Total Lumens, 4' rail length (1219mm)	11334	11691	11930	12049
Lumens per foot (305mm)	2833	2923	2983	3012
Lumens per foot UP (305mm)	1417	1461	1491	1506
Lumens per foot DOWN (305mm)	1417	1461	1491	1506
Input Power (W), 4' rail length (1219mm)	98.1	98.1	98.1	98.1
Watts per foot (305mm)	24.6	24.6	24.6	24.6
CRI	94	94	94	94

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] L121911517 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 107-DR-48-Z-HO-359-22-AL

[LUMINAIRE] DoubleRace LED, 48", 3500K, 90 CRI, zipper board, round diffuse lens up /

[MORE] round diffuse lens down, 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	11929
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	98.12
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)	0.07 ft
Luminous Width (90-270)	3.84 ft
Luminous Height	0.21 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	19403	24698	68697
55	13016	17260	57897
65	8057	11337	45719
75	5105	7228	32684
85	3905	5364	19321

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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	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4
5	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7
10	2145.1	2145.1	2145.1	2145.1	2145.1	2145.1	2143.2	2143.2	2143.2	2143.2
15	2097.6	2099.5	2097.6	2097.6	2097.6	2095.7	2095.7	2095.7	2095.7	2093.8
20	2033.0	2033.0	2033.0	2033.0	2031.1	2029.2	2027.3	2027.3	2025.4	2023.5
25	1947.5	1947.5	1947.5	1945.6	1943.7	1941.8	1939.9	1938.0	1936.1	1932.3
30	1848.7	1848.7	1848.7	1846.8	1844.9	1843.0	1831.6	1827.8	1824.0	1820.2
35	1719.5	1719.5	1719.5	1719.5	1717.6	1715.7	1711.9	1700.5	1694.8	1689.1
40	1558.0	1558.0	1559.9	1561.8	1559.9	1561.8	1561.8	1558.0	1554.2	1548.5
45	1371.8	1373.7	1375.6	1377.5	1379.4	1383.2	1387.0	1387.0	1385.1	1379.4
50	1179.9	1179.9	1181.8	1185.6	1191.3	1195.1	1198.9	1200.8	1200.8	1197.0
55	986.1	986.1	989.9	995.6	999.4	1007.0	1012.7	1014.6	1014.6	1010.8
60	798.0	799.9	803.7	811.3	817.0	824.6	834.1	837.9	839.8	837.9
65	632.7	634.6	638.4	644.1	651.7	659.3	666.9	674.5	676.4	674.5
70	501.6	501.6	505.4	511.1	516.8	524.4	532.0	535.8	535.8	533.9
75	402.8	402.8	406.6	410.4	414.2	421.8	425.6	429.4	429.4	423.7
80	338.2	338.2	340.1	343.9	347.7	353.4	355.3	357.2	355.3	347.7
85	300.2	300.2	302.1	304.0	307.8	311.6	313.5	313.5	309.7	300.2
90	288.8	288.8	288.8	292.6	296.4	296.4	300.2	300.2	296.4	285.0
95	300.2	300.2	302.1	304.0	307.8	311.6	313.5	313.5	309.7	300.2
100	338.2	338.2	340.1	343.9	347.7	353.4	355.3	357.2	355.3	347.7
105	402.8	402.8	406.6	410.4	414.2	421.8	425.6	429.4	429.4	423.7
110	501.6	501.6	505.4	511.1	516.8	524.4	532.0	535.8	535.8	533.9
115	632.7	634.6	638.4	644.1	651.7	659.3	666.9	674.5	676.4	674.5
120	798.0	799.9	803.7	811.3	817.0	824.6	834.1	837.9	839.8	837.9
125	986.1	986.1	989.9	995.6	999.4	1007.0	1012.7	1014.6	1014.6	1010.8
130	1179.9	1179.9	1181.8	1185.6	1191.3	1195.1	1198.9	1200.8	1200.8	1197.0
135	1371.8	1373.7	1375.6	1377.5	1379.4	1383.2	1387.0	1387.0	1385.1	1379.4
140	1558.0	1558.0	1559.9	1561.8	1559.9	1561.8	1561.8	1558.0	1554.2	1548.5
145	1719.5	1719.5	1719.5	1719.5	1717.6	1715.7	1711.9	1700.5	1694.8	1689.1
150	1848.7	1848.7	1848.7	1846.8	1844.9	1843.0	1831.6	1827.8	1824.0	1820.2
155	1947.5	1947.5	1947.5	1945.6	1943.7	1941.8	1939.9	1938.0	1936.1	1932.3
160	2033.0	2033.0	2033.0	2033.0	2031.1	2029.2	2027.3	2027.3	2025.4	2023.5
165	2097.6	2099.5	2097.6	2097.6	2097.6	2095.7	2095.7	2095.7	2095.7	2093.8
170	2145.1	2145.1	2145.1	2145.1	2145.1	2145.1	2143.2	2143.2	2143.2	2143.2
175	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7
180	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4

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	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4
5	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2173.6	2171.7
10	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2
15	2091.9	2091.9	2090.0	2090.0	2088.1	2090.0	2088.1	2088.1	2090.0	2088.1
20	2021.6	2019.7	2015.9	2015.9	2014.0	2012.1	2012.1	2010.2	2012.1	2010.2
25	1928.5	1924.7	1920.9	1917.1	1915.2	1911.4	1911.4	1911.4	1911.4	1911.4
30	1814.5	1808.8	1803.1	1797.4	1793.6	1787.9	1786.0	1784.1	1784.1	1784.1
35	1683.4	1673.9	1666.3	1656.8	1649.2	1643.5	1637.8	1635.9	1635.9	1635.9
40	1537.1	1525.7	1508.6	1497.2	1485.8	1478.2	1470.6	1466.8	1464.9	1466.8
45	1369.9	1356.6	1335.7	1322.4	1309.1	1295.8	1286.3	1280.6	1280.6	1280.6
50	1187.5	1178.0	1160.9	1143.8	1121.0	1105.8	1094.4	1086.8	1086.8	1086.8
55	1005.1	993.7	978.5	957.6	934.8	917.7	904.4	896.8	894.9	896.8
60	828.4	815.1	796.1	779.0	758.1	735.3	720.1	712.5	708.7	712.5

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CANDELA TABULATION - (Cont.)

65	666.9	651.7	634.6	611.8	590.9	566.2	551.0	541.5	539.6	541.5
70	526.3	511.1	492.1	467.4	442.7	419.9	399.0	389.5	385.7	389.5
75	414.2	397.1	376.2	349.6	321.1	294.5	273.6	260.3	254.6	260.3
80	334.4	317.3	290.7	260.3	229.9	197.6	171.0	155.8	150.1	155.8
85	286.9	266.0	237.5	205.2	169.1	131.1	98.8	76.0	68.4	76.0
90	269.8	250.8	220.4	186.2	148.2	110.2	72.2	38.0	15.2	38.0
95	286.9	266.0	237.5	205.2	169.1	131.1	98.8	76.0	68.4	76.0
100	334.4	317.3	290.7	260.3	229.9	197.6	171.0	155.8	150.1	155.8
105	414.2	397.1	376.2	349.6	321.1	294.5	273.6	260.3	254.6	260.3
110	526.3	511.1	492.1	467.4	442.7	419.9	399.0	389.5	385.7	389.5
115	666.9	651.7	634.6	611.8	590.9	566.2	551.0	541.5	539.6	541.5
120	828.4	815.1	796.1	779.0	758.1	735.3	720.1	712.5	708.7	712.5
125	1005.1	993.7	978.5	957.6	934.8	917.7	904.4	896.8	894.9	896.8
130	1187.5	1178.0	1160.9	1143.8	1121.0	1105.8	1094.4	1086.8	1086.8	1086.8
135	1369.9	1356.6	1335.7	1322.4	1309.1	1295.8	1286.3	1280.6	1280.6	1280.6
140	1537.1	1525.7	1508.6	1497.2	1485.8	1478.2	1470.6	1466.8	1464.9	1466.8
145	1683.4	1673.9	1666.3	1656.8	1649.2	1643.5	1637.8	1635.9	1635.9	1635.9
150	1814.5	1808.8	1803.1	1797.4	1793.6	1787.9	1786.0	1784.1	1784.1	1784.1
155	1928.5	1924.7	1920.9	1917.1	1915.2	1911.4	1911.4	1911.4	1911.4	1911.4
160	2021.6	2019.7	2015.9	2015.9	2014.0	2012.1	2012.1	2010.2	2012.1	2010.2
165	2091.9	2091.9	2090.0	2090.0	2088.1	2090.0	2088.1	2088.1	2090.0	2088.1
170	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2
175	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2173.6	2171.7
180	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4

**Vert.
Angles**

Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4
5	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7
10	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2
15	2088.1	2090.0	2088.1	2090.0	2090.0	2091.9	2091.9	2093.8	2095.7	2095.7
20	2012.1	2012.1	2014.0	2015.9	2015.9	2019.7	2021.6	2023.5	2025.4	2027.3
25	1911.4	1911.4	1915.2	1917.1	1920.9	1924.7	1928.5	1932.3	1936.1	1938.0
30	1786.0	1787.9	1793.6	1797.4	1803.1	1808.8	1814.5	1820.2	1824.0	1827.8
35	1637.8	1643.5	1649.2	1656.8	1666.3	1673.9	1683.4	1689.1	1694.8	1700.5
40	1470.6	1478.2	1485.8	1497.2	1508.6	1525.7	1537.1	1548.5	1554.2	1558.0
45	1286.3	1295.8	1309.1	1322.4	1335.7	1356.6	1369.9	1379.4	1385.1	1387.0
50	1094.4	1105.8	1121.0	1143.8	1160.9	1178.0	1187.5	1197.0	1200.8	1200.8
55	904.4	917.7	934.8	957.6	978.5	993.7	1005.1	1010.8	1014.6	1014.6
60	720.1	735.3	758.1	779.0	796.1	815.1	828.4	837.9	839.8	837.9
65	551.0	566.2	590.9	611.8	634.6	651.7	666.9	674.5	676.4	674.5
70	399.0	419.9	442.7	467.4	492.1	511.1	526.3	533.9	535.8	535.8
75	273.6	294.5	321.1	349.6	376.2	397.1	414.2	423.7	429.4	429.4
80	171.0	197.6	229.9	260.3	290.7	317.3	334.4	347.7	355.3	357.2
85	98.8	131.1	169.1	205.2	237.5	266.0	286.9	300.2	309.7	313.5
90	72.2	110.2	148.2	186.2	220.4	250.8	269.8	285.0	296.4	300.2
95	98.8	131.1	169.1	205.2	237.5	266.0	286.9	300.2	309.7	313.5
100	171.0	197.6	229.9	260.3	290.7	317.3	334.4	347.7	355.3	357.2
105	273.6	294.5	321.1	349.6	376.2	397.1	414.2	423.7	429.4	429.4
110	399.0	419.9	442.7	467.4	492.1	511.1	526.3	533.9	535.8	535.8
115	551.0	566.2	590.9	611.8	634.6	651.7	666.9	674.5	676.4	674.5
120	720.1	735.3	758.1	779.0	796.1	815.1	828.4	837.9	839.8	837.9
125	904.4	917.7	934.8	957.6	978.5	993.7	1005.1	1010.8	1014.6	1014.6
130	1094.4	1105.8	1121.0	1143.8	1160.9	1178.0	1187.5	1197.0	1200.8	1200.8
135	1286.3	1295.8	1309.1	1322.4	1335.7	1356.6	1369.9	1379.4	1385.1	1387.0

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CANDELA TABULATION - (Cont.)

140	1470.6	1478.2	1485.8	1497.2	1508.6	1525.7	1537.1	1548.5	1554.2	1558.0
145	1637.8	1643.5	1649.2	1656.8	1666.3	1673.9	1683.4	1689.1	1694.8	1700.5
150	1786.0	1787.9	1793.6	1797.4	1803.1	1808.8	1814.5	1820.2	1824.0	1827.8
155	1911.4	1911.4	1915.2	1917.1	1920.9	1924.7	1928.5	1932.3	1936.1	1938.0
160	2012.1	2012.1	2014.0	2015.9	2015.9	2019.7	2021.6	2023.5	2025.4	2027.3
165	2088.1	2090.0	2088.1	2090.0	2090.0	2091.9	2091.9	2093.8	2095.7	2095.7
170	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2	2143.2
175	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7
180	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4

Vert. Horizontal Angles
Angles

	150	155	160	165	170	175	180
0	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4
5	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7
10	2143.2	2145.1	2145.1	2145.1	2145.1	2145.1	2145.1
15	2095.7	2095.7	2097.6	2097.6	2097.6	2099.5	2097.6
20	2027.3	2029.2	2031.1	2033.0	2033.0	2033.0	2033.0
25	1939.9	1941.8	1943.7	1945.6	1947.5	1947.5	1947.5
30	1831.6	1843.0	1844.9	1846.8	1848.7	1848.7	1848.7
35	1711.9	1715.7	1717.6	1719.5	1719.5	1719.5	1719.5
40	1561.8	1561.8	1559.9	1561.8	1559.9	1558.0	1558.0
45	1387.0	1383.2	1379.4	1377.5	1375.6	1373.7	1371.8
50	1198.9	1195.1	1191.3	1185.6	1181.8	1179.9	1179.9
55	1012.7	1007.0	999.4	995.6	989.9	986.1	986.1
60	834.1	824.6	817.0	811.3	803.7	799.9	798.0
65	666.9	659.3	651.7	644.1	638.4	634.6	632.7
70	532.0	524.4	516.8	511.1	505.4	501.6	501.6
75	425.6	421.8	414.2	410.4	406.6	402.8	402.8
80	355.3	353.4	347.7	343.9	340.1	338.2	338.2
85	313.5	311.6	307.8	304.0	302.1	300.2	300.2
90	300.2	296.4	296.4	292.6	288.8	288.8	288.8
95	313.5	311.6	307.8	304.0	302.1	300.2	300.2
100	355.3	353.4	347.7	343.9	340.1	338.2	338.2
105	425.6	421.8	414.2	410.4	406.6	402.8	402.8
110	532.0	524.4	516.8	511.1	505.4	501.6	501.6
115	666.9	659.3	651.7	644.1	638.4	634.6	632.7
120	834.1	824.6	817.0	811.3	803.7	799.9	798.0
125	1012.7	1007.0	999.4	995.6	989.9	986.1	986.1
130	1198.9	1195.1	1191.3	1185.6	1181.8	1179.9	1179.9
135	1387.0	1383.2	1379.4	1377.5	1375.6	1373.7	1371.8
140	1561.8	1561.8	1559.9	1561.8	1559.9	1558.0	1558.0
145	1711.9	1715.7	1717.6	1719.5	1719.5	1719.5	1719.5
150	1831.6	1843.0	1844.9	1846.8	1848.7	1848.7	1848.7
155	1939.9	1941.8	1943.7	1945.6	1947.5	1947.5	1947.5
160	2027.3	2029.2	2031.1	2033.0	2033.0	2033.0	2033.0
165	2095.7	2095.7	2097.6	2097.6	2097.6	2099.5	2097.6
170	2143.2	2145.1	2145.1	2145.1	2145.1	2145.1	2145.1
175	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7
180	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	796.93	N.A.	6.70
0-30	1685.86	N.A.	14.10
0-40	2737.5	N.A.	22.90
0-60	4652.79	N.A.	39.00
0-80	5687.97	N.A.	47.70
0-90	5964.72	N.A.	50.00
10-90	5758.35	N.A.	48.30
20-40	1940.57	N.A.	16.30
20-50	2981.58	N.A.	25.00
40-70	2544.26	N.A.	21.30
60-80	1035.18	N.A.	8.70
70-80	406.22	N.A.	3.40
80-90	276.75	N.A.	2.30
90-110	682.96	N.A.	5.70
90-120	1311.93	N.A.	11.00
90-130	2186.21	N.A.	18.30
90-150	4278.87	N.A.	35.90
90-180	5964.72	N.A.	50.00
110-180	5281.76	N.A.	44.30
0-180	11929.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	206.37
10-20	590.56
20-30	888.92
30-40	1051.64
40-50	1041.01
50-60	874.28
60-70	628.97
70-80	406.22
80-90	276.75
90-100	276.75
100-110	406.22
110-120	628.97
120-130	874.28
130-140	1041.01
140-150	1051.64
150-160	888.92
160-170	590.56
170-180	206.37

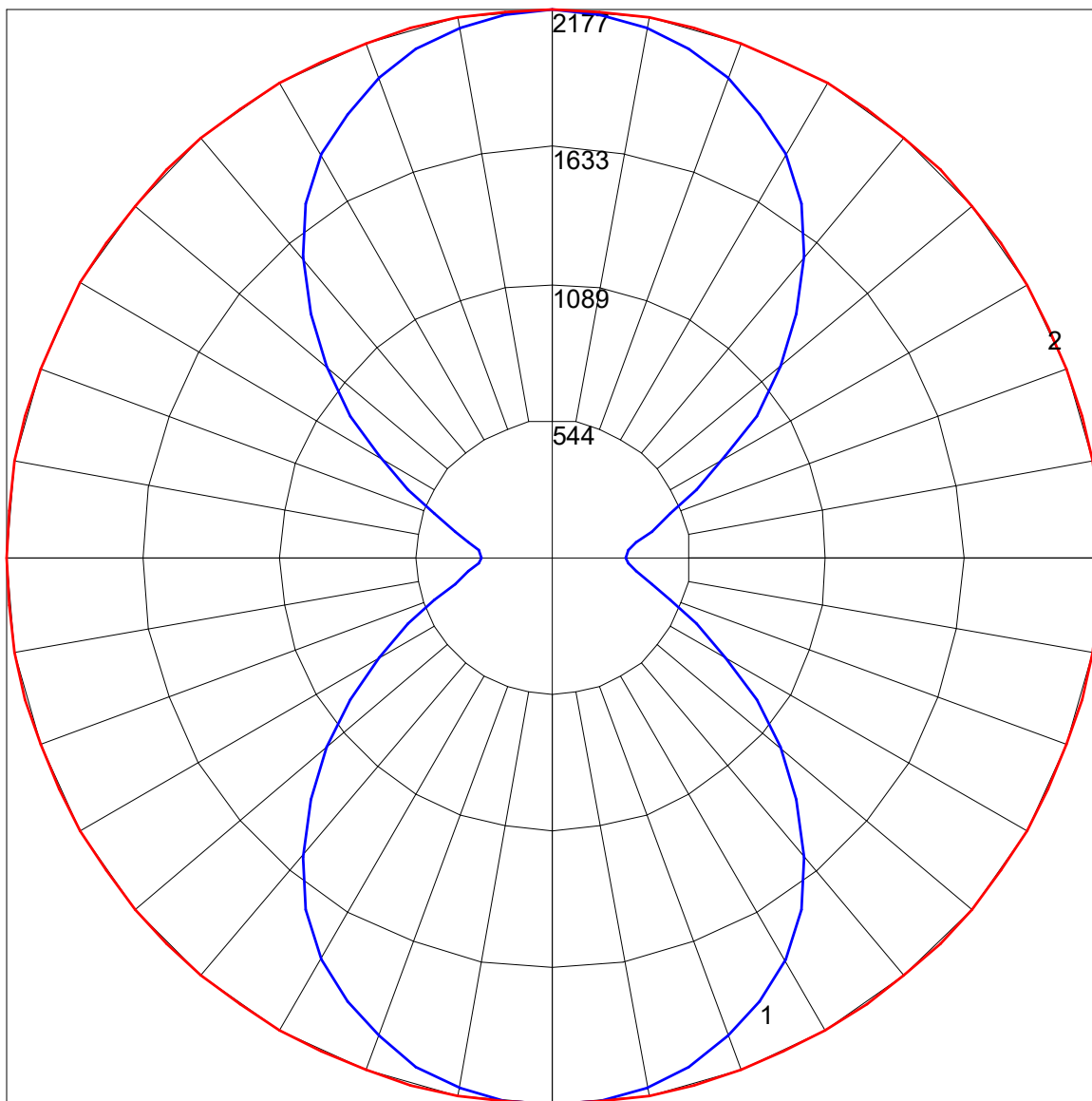
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DR_HO_359_22.IES

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	89	86	82	79	72	70	67	60	58	57	49	48	46	41
2	88	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	41	37	34	34	31	29	25
5	68	56	48	42	62	52	45	39	44	39	34	37	33	30	31	27	25	22
6	62	50	42	36	57	47	39	34	40	34	30	34	29	26	28	24	22	19
7	58	45	37	32	53	42	35	30	36	31	26	31	26	23	25	22	19	17
8	54	41	33	28	49	38	31	27	33	27	23	28	24	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	22	18	16	14
10	47	35	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12

POLAR GRAPH



Maximum Candela = 2177.4 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (0 - 180)

2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)