

## IES Report

DoubleBox™ | 107 | Wide Batwing, up | 85° Asymmetric, down | 90 CRI | SO

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-359-G1A1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	80	82	84	85
Total Lumens, 4' rail length (1219mm)	3779	3898	3978	4018
Lumens per foot (305mm)	945	975	995	1004
Lumens per foot UP (305mm)	640	660	674	681
Lumens per foot DOWN (305mm)	304	314	320	324
Input Power (W), 4' rail length (1219mm)	47.8	47.8	47.8	47.8
Watts per foot (305mm)	12.0	12.0	12.0	12.0
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\_DB\_SO\_359\_G1A1\_BL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 / L121911514 (SOURCE REPORTS FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 3/18/20

[MANUFAC] Vode Lighting

[LUMCAT] 107-DB-48-Z-SO-359-G1A1-BL

[LUMINAIRE] DoubleBox LED, 48", 3500K, 90 CRI, zipper board, wide batwing lens up /

[MORE] 85° asymmetric lens down, standard output, black anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3978
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	47.84
Ballast Factor	1.00
CIE Type	Semi-Indirect
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	8909	8816	13391
55	5366	4935	8026
65	2560	2401	5035
75	576	885	3229
85	0	3	1421

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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</b>	786.12	786.12	786.12	786.12	786.12	786.12	786.12	786.12	786.12	786.12
<b>5</b>	857.02	857.69	857.69	855.76	851.99	848.55	843.77	839.08	833.97	828.01
<b>10</b>	932.46	932.54	932.54	928.35	923.24	917.37	910.58	902.70	893.40	883.51
<b>15</b>	963.98	963.31	962.47	958.03	952.83	946.29	937.99	928.85	917.29	904.80
<b>20</b>	960.46	959.95	958.53	954.51	948.72	941.60	932.88	922.32	909.83	895.49
<b>25</b>	932.96	931.79	929.36	925.33	918.88	910.58	901.28	889.04	874.37	858.02
<b>30</b>	881.16	880.49	877.81	872.78	865.15	855.84	843.61	828.85	811.33	792.31
<b>35</b>	814.27	813.26	809.57	803.45	794.49	782.58	768.08	749.89	728.77	706.13
<b>40</b>	728.43	727.09	722.82	716.03	705.38	690.96	673.44	652.57	629.10	603.37
<b>45</b>	629.85	628.43	623.82	616.53	605.46	589.70	569.50	546.28	520.97	492.38
<b>50</b>	519.21	517.95	514.26	507.47	496.57	480.98	461.62	437.98	411.41	384.50
<b>55</b>	406.55	405.71	402.44	397.08	387.52	373.86	356.59	336.72	313.00	289.03
<b>60</b>	299.76	299.17	297.16	293.30	286.68	276.20	262.79	246.11	227.25	208.30
<b>65</b>	201.01	200.76	200.00	198.41	194.89	188.69	180.14	168.91	156.00	142.84
<b>70</b>	115.85	116.01	116.52	117.19	116.94	115.26	111.74	106.29	99.33	91.79
<b>75</b>	45.43	45.77	47.19	49.46	52.06	54.23	55.66	55.74	54.32	51.89
<b>80</b>	3.69	3.77	4.19	5.03	6.37	8.38	11.07	14.42	17.60	19.95
<b>85</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17
<b>90</b>	4.88	4.88	4.88	4.88	4.88	4.88	4.88	4.88	4.88	4.88
<b>95</b>	22.72	27.95	26.37	26.97	27.88	29.41	30.17	36.23	39.69	42.36
<b>100</b>	87.76	92.11	94.28	98.77	104.55	110.71	117.81	123.81	131.83	132.53
<b>105</b>	210.65	196.21	209.98	215.48	221.76	232.02	239.80	246.36	252.57	250.98
<b>110</b>	392.72	379.80	381.10	389.40	402.82	403.54	417.51	407.22	396.92	372.27
<b>115</b>	628.18	625.60	603.44	592.03	586.67	583.41	567.41	544.96	516.47	481.20
<b>120</b>	799.43	794.43	783.42	762.71	743.69	717.08	688.83	656.77	607.42	555.75
<b>125</b>	910.83	905.01	891.50	874.43	853.09	812.83	776.50	723.86	671.10	611.69
<b>130</b>	958.45	953.31	938.58	916.29	889.14	853.00	807.09	757.28	700.31	641.74
<b>135</b>	957.94	953.61	939.84	918.17	888.20	853.47	809.57	764.06	711.45	658.91
<b>140</b>	926.93	922.51	910.02	890.60	864.79	832.71	794.81	753.55	709.43	664.09
<b>145</b>	877.97	874.03	864.05	848.62	826.75	800.13	769.09	733.84	697.27	659.96
<b>150</b>	820.97	817.41	810.11	797.53	780.75	759.55	734.63	707.60	680.00	649.99
<b>155</b>	761.79	759.20	754.37	744.75	732.61	717.08	698.81	679.19	658.81	638.19
<b>160</b>	706.13	704.76	700.80	695.37	686.73	676.88	665.56	651.95	637.67	624.88
<b>165</b>	658.44	657.43	654.93	651.98	647.98	642.01	635.38	628.13	620.32	611.28
<b>170</b>	622.81	622.26	621.05	619.70	618.03	616.07	613.82	610.26	606.57	602.72
<b>175</b>	601.44	601.18	600.97	600.34	599.87	599.36	598.81	598.22	597.60	596.95
<b>180</b>	594.00	594.00	594.00	594.00	594.00	594.00	594.00	594.00	594.00	594.00

**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</b>	786.12	786.12	786.12	786.12	786.12	786.12	786.12	786.12	786.12	786.12
<b>5</b>	822.15	814.85	807.31	801.95	791.97	781.74	772.86	807.73	798.01	788.37
<b>10</b>	872.02	859.11	845.11	831.79	814.02	795.57	776.71	799.18	779.15	757.77
<b>15</b>	889.96	873.11	854.25	834.64	811.67	785.26	759.03	770.34	742.18	712.09
<b>20</b>	878.73	859.53	838.16	815.52	787.70	757.10	724.91	725.41	690.21	650.31
<b>25</b>	839.08	817.29	793.14	768.08	738.41	703.20	666.99	658.10	617.87	575.12
<b>30</b>	771.10	746.96	720.13	691.72	660.70	625.50	588.19	572.77	529.68	486.52
<b>35</b>	681.66	654.41	625.66	595.15	563.97	529.27	491.46	472.43	432.62	391.21
<b>40</b>	574.78	545.36	515.69	485.68	455.50	423.56	390.03	371.17	337.06	300.26
<b>45</b>	462.88	434.29	405.29	377.04	348.62	323.73	295.48	277.46	249.63	219.03
<b>50</b>	356.50	331.27	305.12	280.64	258.09	236.38	214.34	198.75	177.62	155.24
<b>55</b>	264.80	242.59	220.88	201.93	183.83	167.31	154.40	139.57	124.06	107.80
<b>60</b>	189.44	171.76	156.08	142.00	129.26	117.10	105.79	97.40	86.59	75.53

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	130.10	117.35	106.54	96.90	87.93	79.72	73.60	66.56	59.43	52.22
<b>70</b>	84.16	76.36	69.57	63.46	57.92	52.89	49.12	44.59	39.98	35.29
<b>75</b>	48.62	45.01	41.66	38.39	35.37	32.52	30.51	27.91	25.15	22.38
<b>80</b>	21.04	20.96	20.20	19.28	18.02	16.85	16.09	15.01	13.66	12.24
<b>85</b>	0.59	1.68	3.44	5.03	5.53	5.62	5.53	5.37	5.03	4.69
<b>90</b>	4.88	4.88	4.88	4.88	4.88	4.88	4.88	4.88	4.88	4.88
<b>95</b>	42.99	53.19	51.95	41.69	38.78	39.04	38.27	36.85	37.64	36.85
<b>100</b>	132.32	131.77	122.04	108.71	99.63	91.59	84.39	81.64	81.98	81.64
<b>105</b>	244.09	225.11	203.12	177.19	157.78	143.37	133.03	127.79	126.99	127.79
<b>110</b>	338.05	307.34	273.78	239.33	213.43	196.02	183.44	177.08	176.79	177.08
<b>115</b>	434.67	383.23	337.06	297.41	267.24	246.59	232.36	224.77	224.15	224.77
<b>120</b>	500.44	441.82	391.04	350.33	317.63	295.31	281.68	272.89	269.33	272.89
<b>125</b>	548.64	490.45	438.91	396.26	362.10	338.66	324.57	316.05	311.83	316.05
<b>130</b>	583.46	529.01	480.30	438.35	404.42	378.95	361.79	350.91	342.76	350.91
<b>135</b>	605.93	556.85	511.67	474.14	442.97	419.31	403.68	393.96	389.95	393.96
<b>140</b>	618.40	576.72	537.62	502.90	475.75	453.44	438.54	429.46	425.24	429.46
<b>145</b>	623.31	588.68	556.37	527.36	503.63	484.97	470.98	463.66	459.44	463.66
<b>150</b>	621.81	594.69	568.42	546.79	526.45	512.80	500.28	495.12	491.63	495.12
<b>155</b>	617.08	596.88	578.39	560.38	547.41	535.94	527.38	522.93	519.71	522.93
<b>160</b>	611.37	597.09	583.29	573.42	563.90	554.74	550.73	547.33	544.77	547.33
<b>165</b>	602.89	596.01	589.12	582.28	575.53	572.46	569.90	567.57	565.73	567.57
<b>170</b>	598.75	594.70	590.69	588.77	587.01	585.37	583.86	582.44	581.24	582.44
<b>175</b>	596.28	595.59	594.88	594.17	593.46	592.75	592.03	591.36	590.71	591.36
<b>180</b>	594.00	594.00	594.00	594.00	594.00	594.00	594.00	594.00	594.00	594.00

**Vert.  
Angles**

**Horizontal Angles**

	<b>100</b>	<b>105</b>	<b>110</b>	<b>115</b>	<b>120</b>	<b>125</b>	<b>130</b>	<b>135</b>	<b>140</b>	<b>145</b>
<b>0</b>	786.12	786.12	786.12	786.12	786.12	786.12	786.12	786.12	786.12	786.12
<b>5</b>	779.31	770.09	761.37	752.49	744.36	737.07	729.44	723.07	716.61	709.99
<b>10</b>	737.90	717.70	697.25	677.80	657.94	639.91	623.15	606.64	591.63	577.55
<b>15</b>	682.50	651.73	620.97	591.88	561.96	534.88	509.23	484.67	463.04	442.93
<b>20</b>	612.75	573.36	534.04	497.16	459.19	426.33	395.57	366.81	341.84	319.45
<b>25</b>	532.37	487.61	443.01	402.36	360.86	325.49	293.89	264.80	240.49	218.36
<b>30</b>	441.50	398.00	353.57	312.66	273.43	240.16	211.15	185.34	163.88	145.85
<b>35</b>	350.97	307.72	267.06	230.77	196.23	168.24	144.51	123.81	107.71	94.72
<b>40</b>	264.63	227.25	194.39	164.80	137.47	115.93	98.16	83.32	71.33	62.70
<b>45</b>	190.62	162.28	137.22	115.01	94.89	79.13	67.90	56.58	48.79	42.58
<b>50</b>	134.37	113.92	95.81	79.55	68.23	55.74	47.11	40.07	34.87	30.76
<b>55</b>	92.96	79.13	69.24	55.49	46.69	39.48	33.70	29.09	25.73	23.05
<b>60</b>	65.22	55.91	47.28	40.15	33.87	29.17	25.32	22.30	20.03	18.27
<b>65</b>	45.52	39.23	33.61	28.92	24.81	21.71	19.28	17.27	15.76	14.50
<b>70</b>	31.10	27.08	23.56	20.54	18.11	16.09	14.42	13.16	12.07	11.23
<b>75</b>	20.03	17.69	15.59	13.92	12.41	11.23	10.23	9.47	8.80	8.22
<b>80</b>	11.07	9.98	8.97	8.22	7.46	6.96	6.37	5.95	5.62	5.37
<b>85</b>	4.36	4.02	3.77	3.60	3.35	3.19	3.02	2.60	2.43	2.18
<b>90</b>	4.88	4.88	4.88	4.88	4.88	4.88	4.88	4.88	4.88	4.88
<b>95</b>	38.27	39.04	38.78	41.69	51.95	53.19	42.99	42.36	39.69	36.23
<b>100</b>	84.39	91.59	99.63	108.71	122.04	131.77	132.32	132.53	131.83	123.81
<b>105</b>	133.03	143.37	157.78	177.19	203.12	225.11	244.09	250.98	252.57	246.36
<b>110</b>	183.44	196.02	213.43	239.33	273.78	307.34	338.05	372.27	396.92	407.22
<b>115</b>	232.36	246.59	267.24	297.41	337.06	383.23	434.67	481.20	516.47	544.96
<b>120</b>	281.68	295.31	317.63	350.33	391.04	441.82	500.44	555.75	607.42	656.77
<b>125</b>	324.57	338.66	362.10	396.26	438.91	490.45	548.64	611.69	671.10	723.86
<b>130</b>	361.79	378.95	404.42	438.35	480.30	529.01	583.46	641.74	700.31	757.28
<b>135</b>	403.68	419.31	442.97	474.14	511.67	556.85	605.93	658.91	711.45	764.06

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**CANDELA TABULATION - (Cont.)**

<b>140</b>	438.54	453.44	475.75	502.90	537.62	576.72	618.40	664.09	709.43	753.55
<b>145</b>	470.98	484.97	503.63	527.36	556.37	588.68	623.31	659.96	697.27	733.84
<b>150</b>	500.28	512.80	526.45	546.79	568.42	594.69	621.81	649.99	680.00	707.60
<b>155</b>	527.38	535.94	547.41	560.38	578.39	596.88	617.08	638.19	658.81	679.19
<b>160</b>	550.73	554.74	563.90	573.42	583.29	597.09	611.37	624.88	637.67	651.95
<b>165</b>	569.90	572.46	575.53	582.28	589.12	596.01	602.89	611.28	620.32	628.13
<b>170</b>	583.86	585.37	587.01	588.77	590.69	594.70	598.75	602.72	606.57	610.26
<b>175</b>	592.03	592.75	593.46	594.17	594.88	595.59	596.28	596.95	597.60	598.22
<b>180</b>	594.00	594.00	594.00	594.00	594.00	594.00	594.00	594.00	594.00	594.00

**Vert.  
Angles**

**Horizontal Angles**

	<b><u>150</u></b>	<b><u>155</u></b>	<b><u>160</u></b>	<b><u>165</u></b>	<b><u>170</u></b>	<b><u>175</u></b>	<b><u>180</u></b>
<b>0</b>	786.12	786.12	786.12	786.12	786.12	786.12	786.12
<b>5</b>	704.63	698.93	695.32	693.90	691.88	768.42	769.67
<b>10</b>	565.06	553.74	544.52	539.24	535.13	608.48	609.57
<b>15</b>	425.41	409.98	397.58	390.37	383.75	445.02	445.94
<b>20</b>	299.84	283.41	270.33	261.87	255.08	299.84	300.26
<b>25</b>	201.26	186.68	175.19	167.73	162.03	190.28	190.62
<b>30</b>	131.94	120.46	111.40	105.70	101.26	118.44	118.36
<b>35</b>	84.41	75.86	69.57	66.05	62.95	72.84	72.93
<b>40</b>	55.49	50.21	45.94	43.42	41.58	47.36	47.44
<b>45</b>	37.89	34.45	31.77	30.09	29.00	32.44	32.36
<b>50</b>	27.75	25.48	23.64	22.55	21.79	23.89	23.81
<b>55</b>	21.04	19.53	18.36	17.60	17.10	18.44	18.44
<b>60</b>	16.85	15.76	15.01	14.42	14.00	14.84	14.92
<b>65</b>	13.58	12.74	12.15	11.74	11.40	11.99	11.90
<b>70</b>	10.56	9.98	9.56	9.22	8.97	9.39	9.39
<b>75</b>	7.80	7.38	7.13	6.87	6.71	6.96	6.87
<b>80</b>	5.11	4.86	4.61	4.61	4.44	4.53	4.53
<b>85</b>	1.93	1.84	1.76	1.68	1.59	1.68	1.68
<b>90</b>	4.88	4.88	4.88	4.88	4.88	4.88	4.88
<b>95</b>	30.17	29.41	27.88	26.97	26.37	27.95	22.72
<b>100</b>	117.81	110.71	104.55	98.77	94.28	92.11	87.76
<b>105</b>	239.80	232.02	221.76	215.48	209.98	196.21	210.65
<b>110</b>	417.51	403.54	402.82	389.40	381.10	379.80	392.72
<b>115</b>	567.41	583.41	586.67	592.03	603.44	625.60	628.18
<b>120</b>	688.83	717.08	743.69	762.71	783.42	794.43	799.43
<b>125</b>	776.50	812.83	853.09	874.43	891.50	905.01	910.83
<b>130</b>	807.09	853.00	889.14	916.29	938.58	953.31	958.45
<b>135</b>	809.57	853.47	888.20	918.17	939.84	953.61	957.94
<b>140</b>	794.81	832.71	864.79	890.60	910.02	922.51	926.93
<b>145</b>	769.09	800.13	826.75	848.62	864.05	874.03	877.97
<b>150</b>	734.63	759.55	780.75	797.53	810.11	817.41	820.97
<b>155</b>	698.81	717.08	732.61	744.75	754.37	759.20	761.79
<b>160</b>	665.56	676.88	686.73	695.37	700.80	704.76	706.13
<b>165</b>	635.38	642.01	647.98	651.98	654.93	657.43	658.44
<b>170</b>	613.82	616.07	618.03	619.70	621.05	622.26	622.81
<b>175</b>	598.81	599.36	599.87	600.34	600.97	601.18	601.44
<b>180</b>	594.00	594.00	594.00	594.00	594.00	594.00	594.00

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_DB\_SO\_359\_G1A1\_BL.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	269.80	N.A.	6.80
0-30	531.78	N.A.	13.40
0-40	796.75	N.A.	20.00
0-60	1162.55	N.A.	29.20
0-80	1276.34	N.A.	32.10
0-90	1281.8	N.A.	32.20
10-90	1208.32	N.A.	30.40
20-40	526.95	N.A.	13.20
20-50	744.56	N.A.	18.70
40-70	448.39	N.A.	11.30
60-80	113.79	N.A.	2.90
70-80	31.21	N.A.	0.80
80-90	5.46	N.A.	0.10
90-110	270.39	N.A.	6.80
90-120	701.64	N.A.	17.60
90-130	1239.49	N.A.	31.20
90-150	2168.42	N.A.	54.50
90-180	2695.79	N.A.	67.80
110-180	2425.4	N.A.	61.00
0-180	3977.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	73.47
10-20	196.33
20-30	261.98
30-40	264.97
40-50	217.62
50-60	148.19
60-70	82.58
70-80	31.21
80-90	5.46
90-100	50.67
100-110	219.71
110-120	431.25
120-130	537.86
130-140	512.29
140-150	416.64
150-160	296.23
160-170	174.01
170-180	57.13

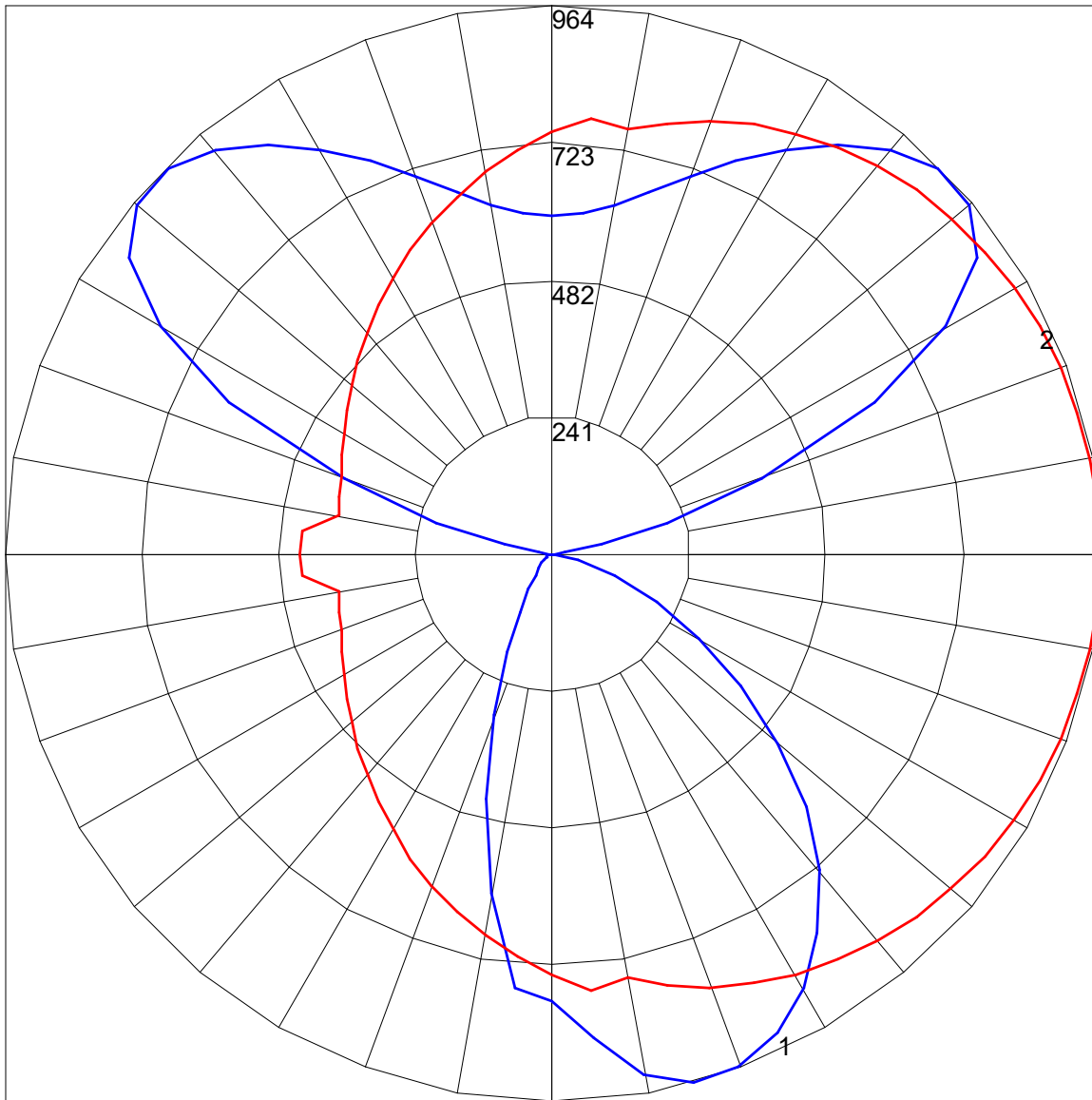
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_DB\_SO\_359\_G1A1\_BL.IES**

**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	103	103	103	103	93	93	93	93	73	73	73	56	56	56	40	40	40	32
1	94	91	87	84	85	82	79	76	65	63	62	50	49	48	36	36	35	29
2	87	80	74	70	78	72	68	64	58	55	52	45	43	41	33	32	30	25
3	79	71	64	59	71	64	58	54	52	48	44	40	38	35	30	28	27	22
4	73	63	56	50	66	57	51	46	46	42	38	36	33	31	27	25	24	20
5	67	56	49	43	60	51	45	40	42	37	34	33	30	27	25	23	21	17
6	62	51	43	38	56	46	40	35	38	33	30	30	27	24	22	20	19	16
7	57	46	38	33	52	42	35	31	34	30	26	27	24	22	21	19	17	14
8	53	42	35	30	48	38	32	27	31	27	23	25	22	19	19	17	15	13
9	50	38	31	26	45	35	29	25	29	24	21	23	20	18	18	16	14	12
10	46	35	28	24	42	32	26	22	27	22	19	21	18	16	17	14	13	11

POLAR GRAPH



Maximum Candela = 963.98 Located At Horizontal Angle = 0, Vertical Angle = 15  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)