



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VW4-LED32DMVSF50PG.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LLIA000731-002
 [TESTLAB] LightLab International Allentown, LLC
 [MANUFAC] Mobern Lighting Co.
 [LUMCAT] VW4-LED32DMVSF50PG
 [LUMINAIRE] Catalog Number: VW4-LED32DMVSF50PG
 [MORE] Surface/Pendant mounted, white plastic vapor tight housing, semi-specular aluminum
 [MORE] Internal reflector with frosted acrylic enclosure. 128 LEDs, four Universal Lighting
 [MORE] Technologies Everline M10CC850D32N2S boards with 32 LEDs each. One Universal
 [MORE] Lighting Technologies Everline D10CC55UNVTZ-C LED driver.
 [MORE] 120.1Vac, 60.0Hz, 0.2689A, 32.17W, 0.996PF, 6.79%THD(i)
 [OTHER] Absolute test - lamp lumens value set to -1
 [MORE] NA conventions used for C0 plane alignment and C-plane rotation direction.
 [MORE] The sample was tested at a distance of 9.5m.
 [MORE] This IES file created by LightLab/LSA Report program version 3.808a.
 [DATE] This file created: Monday, February 27, 2017 11:39:37 AM
 [ISSUE DATE] Monday, February 27, 2017 11:39:37 AM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4040
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	32.2
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.38
Spacing Criterion (90-270)	3.68
Spacing Criterion (Diagonal)	2.98
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.28 m
Luminous Width (90-270)	0.15 m
Luminous Height	0.08 m

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1227	2832	3896
55	1318	3604	4840
65	1392	4321	5597
75	1342	4915	6206
85	1147	5582	6991

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	218.04	218.04	218.04	218.04	218.04
0.5	215.87	219.36	218.16	218.35	216.83
1.0	215.86	219.33	218.21	218.45	216.90
1.5	215.85	219.40	218.35	218.59	217.25
2.0	215.82	219.37	218.41	218.83	217.58
2.5	215.77	219.40	218.55	219.03	217.80
3.0	215.73	219.47	218.66	219.35	218.17
3.5	215.67	219.51	218.84	219.64	218.54
4.0	215.58	219.52	219.00	219.94	219.11
4.5	215.50	219.50	219.20	220.56	219.75
5.0	215.41	219.52	219.46	221.08	220.56
5.5	215.33	219.50	219.72	221.70	221.38
6.0	215.20	219.56	220.03	222.49	222.43
6.5	215.07	219.53	220.43	223.33	223.57
7.0	214.93	219.55	220.90	224.40	224.90
7.5	214.75	219.54	221.42	225.55	226.46
8.0	214.61	219.56	222.00	226.85	228.11
8.5	214.42	219.62	222.61	228.37	230.12
9.0	214.24	219.55	223.36	229.96	232.11
9.5	214.03	219.64	224.16	231.80	234.38
10.0	213.84	219.66	225.08	233.71	236.81
10.5	213.63	219.74	226.02	235.72	239.47
11.0	213.38	219.76	227.07	238.07	242.31
11.5	213.15	219.84	228.26	240.63	245.44
12.0	212.90	219.92	229.53	243.25	248.69
12.5	212.62	220.01	230.90	245.99	252.16
13.0	212.36	220.10	232.34	249.10	255.85
13.5	212.08	220.24	233.83	252.18	259.78
14.0	211.82	220.37	235.60	255.44	263.80
14.5	211.50	220.57	237.34	259.05	268.35
15.0	211.19	220.75	239.25	262.68	272.99
15.5	210.87	220.85	241.27	266.63	277.64
16.0	210.54	221.11	243.39	270.82	282.58
16.5	210.21	221.34	245.55	275.03	287.77
17.0	209.92	221.59	247.82	279.32	293.45
17.5	209.58	221.91	250.22	283.91	299.61
18.0	209.22	222.25	252.68	288.81	305.64
18.5	208.91	222.58	255.29	294.07	312.09
19.0	208.53	222.92	257.99	299.77	319.07
19.5	208.14	223.38	260.90	305.32	325.82
20.0	207.81	223.84	263.88	311.15	333.13
20.5	207.45	224.28	267.03	317.28	341.12
21.0	207.04	224.77	270.26	323.46	349.82
21.5	206.68	225.33	273.45	330.08	358.88
22.0	206.28	225.94	276.74	337.28	368.84
22.5	205.86	226.49	280.18	344.97	378.87
23.0	205.46	227.13	283.92	353.27	389.53
23.5	205.07	227.81	287.83	362.03	400.41
24.0	204.64	228.50	291.97	371.11	411.34
24.5	204.22	229.25	296.16	380.44	422.69
25.0	203.77	230.07	300.33	390.21	434.46
25.5	203.34	230.89	304.77	400.05	446.14
26.0	202.91	231.73	309.20	410.00	457.97
26.5	202.43	232.61	313.75	420.47	470.16

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CANDELA TABULATION - (Cont.)

27.0	201.96	233.50	318.46	430.88	482.17
27.5	201.55	234.54	323.44	441.36	494.30
28.0	201.02	235.55	328.86	452.25	506.58
28.5	200.58	236.59	334.51	462.93	518.50
29.0	200.10	237.63	340.51	473.75	530.57
29.5	199.57	238.65	346.87	484.66	542.62
30.0	199.09	239.80	353.32	495.45	554.39
30.5	198.61	240.84	359.95	506.15	566.08
31.0	198.10	242.08	366.87	517.15	577.76
31.5	197.55	243.27	373.74	527.62	588.99
32.0	197.05	244.48	380.84	538.13	600.08
32.5	196.47	245.84	388.05	548.67	611.07
33.0	195.97	247.11	395.27	558.85	621.82
33.5	195.43	248.43	402.46	568.98	632.28
34.0	194.81	249.77	409.81	578.97	642.64
34.5	194.27	251.17	417.04	588.63	652.61
35.0	193.69	252.55	424.63	598.17	662.46
35.5	193.11	253.91	432.08	607.74	672.17
36.0	192.53	255.19	439.50	616.96	681.67
36.5	191.94	256.53	446.65	625.84	690.85
37.0	191.35	257.87	454.07	634.81	700.09
37.5	190.71	259.30	461.36	643.49	709.03
38.0	190.08	260.70	468.59	651.92	717.77
38.5	189.44	262.27	475.79	660.36	726.55
39.0	188.83	263.93	482.78	668.51	734.93
39.5	188.12	265.53	489.78	676.57	743.53
40.0	187.49	267.15	496.77	684.67	751.82
40.5	186.80	268.71	503.45	692.41	760.07
41.0	186.16	270.22	510.16	700.10	768.34
41.5	185.42	271.78	516.79	707.84	776.52
42.0	184.76	273.29	523.11	715.24	784.35
42.5	184.04	274.76	529.47	722.74	792.24
43.0	183.32	276.25	535.74	730.02	800.09
43.5	182.55	277.79	541.76	737.28	807.99
44.0	181.82	279.40	547.76	744.44	815.54
44.5	181.03	281.11	553.66	751.62	823.47
45.0	180.29	282.97	559.43	758.56	830.86
45.5	179.50	284.85	564.99	765.54	838.48
46.0	178.66	286.82	570.59	772.69	846.08
46.5	177.89	288.86	575.96	780.41	853.52
47.0	177.04	290.84	581.28	786.38	860.92
47.5	176.19	292.92	586.57	792.54	868.31
48.0	175.32	294.83	591.66	798.96	875.64
48.5	174.45	296.81	596.64	805.46	882.86
49.0	173.55	298.77	601.66	812.01	890.09
49.5	172.63	300.61	606.45	818.29	897.09
50.0	171.69	302.46	611.10	824.51	904.00
50.5	170.70	304.31	615.78	830.83	911.05
51.0	169.77	306.04	620.27	836.84	917.61
51.5	168.76	307.72	624.66	842.71	924.04
52.0	167.73	309.39	628.96	848.51	930.52
52.5	166.70	310.98	633.12	854.22	936.66
53.0	165.67	312.53	637.05	859.80	942.56
53.5	164.51	314.03	641.12	865.13	948.31
54.0	163.40	315.47	644.82	870.30	953.69
54.5	162.30	316.80	648.41	875.26	958.97

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CANDELA TABULATION - (Cont.)

55.0	161.10	318.08	652.12	880.11	963.90
55.5	159.94	319.27	655.36	884.60	968.44
56.0	158.71	320.31	658.57	888.82	972.78
56.5	157.43	321.36	661.77	893.05	977.01
57.0	156.14	322.35	664.68	896.80	980.56
57.5	154.85	323.20	667.51	900.36	984.02
58.0	153.46	323.99	670.05	903.68	987.33
58.5	152.10	324.67	672.43	906.67	990.01
59.0	150.69	325.32	674.71	909.37	992.41
59.5	149.22	325.79	676.79	911.85	994.62
60.0	147.76	326.31	678.68	914.00	996.53
60.5	146.22	326.68	680.33	915.91	998.13
61.0	144.65	327.02	681.83	917.56	999.45
61.5	143.04	327.19	683.11	918.91	1000.53
62.0	141.42	327.37	684.16	920.06	1001.34
62.5	139.71	327.39	685.01	920.86	1001.99
63.0	137.97	327.34	685.74	921.59	1002.31
63.5	136.22	327.26	686.04	921.93	1002.56
64.0	134.41	327.07	686.42	922.21	1002.54
64.5	132.57	326.83	686.36	922.21	1002.29
65.0	130.68	326.43	686.21	921.96	1001.81
65.5	128.70	326.06	685.82	921.58	1001.11
66.0	126.71	325.53	685.21	920.98	1000.39
66.5	124.71	324.87	684.33	920.30	999.32
67.0	122.62	324.11	683.44	919.38	997.99
67.5	120.51	323.22	682.26	918.25	996.33
68.0	118.36	322.27	680.93	916.97	994.65
68.5	116.16	321.21	679.24	915.45	992.86
69.0	113.91	319.96	677.79	913.92	990.72
69.5	111.64	318.69	675.93	912.04	988.51
70.0	109.26	317.28	674.00	909.94	985.89
70.5	106.93	315.77	671.92	907.95	983.30
71.0	104.52	314.18	669.79	905.54	980.30
71.5	102.03	312.42	667.40	902.94	977.05
72.0	99.55	310.60	665.04	900.28	973.98
72.5	97.08	308.60	662.44	897.44	970.54
73.0	94.52	306.53	659.91	894.36	967.13
73.5	91.99	304.38	657.10	891.23	963.45
74.0	89.38	302.08	654.24	887.94	959.67
74.5	86.74	299.68	651.31	884.50	955.77
75.0	84.11	297.20	648.24	880.99	951.97
75.5	81.46	294.60	645.01	877.35	947.81
76.0	78.77	291.99	641.71	873.51	943.59
76.5	76.10	289.23	638.30	869.67	939.46
77.0	73.44	286.43	634.85	865.75	935.19
77.5	70.68	283.53	631.17	861.73	930.88
78.0	68.01	280.68	627.46	857.69	926.62
78.5	65.34	277.66	623.62	853.74	922.01
79.0	62.64	274.55	619.63	850.93	917.64
79.5	60.01	271.47	615.61	847.36	913.21
80.0	57.37	268.36	611.48	841.17	908.62
80.5	54.74	265.20	607.08	835.76	904.05
81.0	52.21	261.95	602.78	831.05	899.46
81.5	49.71	258.80	598.29	826.36	894.82
82.0	47.22	255.48	593.63	821.62	890.05
82.5	44.81	251.83	588.93	816.76	885.39

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CANDELA TABULATION - (Cont.)

83.0	42.49	248.40	584.06	811.93	880.62
83.5	40.22	244.90	579.09	806.92	875.73
84.0	38.04	241.39	574.00	801.86	870.86
84.5	35.94	237.82	568.85	796.71	865.78
85.0	33.93	234.18	563.48	791.33	860.79
85.5	32.08	230.49	558.16	786.08	855.75
86.0	30.33	226.80	552.68	780.72	850.78
86.5	28.65	223.00	546.79	774.91	845.40
87.0	27.18	219.24	540.90	769.32	840.16
87.5	25.84	215.38	534.86	763.58	834.73
88.0	24.65	211.44	528.68	757.65	829.17
88.5	23.62	207.49	522.28	751.64	823.48
89.0	22.78	203.51	515.74	745.47	817.76
89.5	22.10	199.42	508.90	739.05	811.80
90.0	21.57	195.36	502.08	732.52	805.62
90.5	21.15	191.20	494.99	725.82	799.41
91.0	20.77	186.85	487.60	718.76	792.77
91.5	20.45	182.58	480.20	711.56	786.01
92.0	20.09	178.20	472.44	704.04	779.04
92.5	19.78	173.82	464.41	696.30	771.62
93.0	19.45	169.41	456.13	688.13	764.11
93.5	19.12	165.01	447.71	679.68	756.11
94.0	18.80	160.48	438.91	670.73	747.70
94.5	18.47	155.93	430.01	661.58	739.07
95.0	18.16	151.29	420.87	652.10	730.07
95.5	17.83	146.71	411.29	641.95	720.38
96.0	17.56	142.27	401.68	631.87	710.60
96.5	17.24	137.80	391.86	621.16	700.43
97.0	16.88	133.20	381.56	609.86	689.63
97.5	16.56	128.58	371.28	598.20	678.13
98.0	16.21	123.98	360.78	585.95	666.28
98.5	15.86	119.33	350.06	573.22	653.54
99.0	15.52	114.78	339.34	560.10	640.65
99.5	15.16	110.19	328.74	546.66	627.22
100.0	14.82	105.69	317.89	532.53	613.30
100.5	14.49	101.36	307.35	518.33	598.99
101.0	14.16	97.03	296.74	503.81	584.01
101.5	13.85	92.76	285.90	489.09	568.62
102.0	13.52	88.69	275.11	474.31	553.06
102.5	13.22	84.64	264.41	459.45	537.47
103.0	12.90	80.63	253.52	444.08	521.57
103.5	12.58	76.87	242.87	428.88	505.26
104.0	12.27	73.11	232.33	413.32	488.75
104.5	11.97	69.52	221.93	397.46	471.67
105.0	11.66	66.15	211.97	381.66	454.82
105.5	11.37	62.77	202.21	365.94	437.63
106.0	11.05	59.53	192.69	349.80	419.86
106.5	10.75	56.50	183.65	334.21	402.40
107.0	10.46	53.52	174.94	318.75	384.91
107.5	10.14	50.66	166.37	303.23	367.10
108.0	9.86	47.91	158.40	288.55	349.85
108.5	9.56	45.35	150.65	274.34	332.88
109.0	9.29	42.82	143.17	260.30	316.19
109.5	9.03	40.46	136.17	247.22	300.27
110.0	8.75	38.24	129.53	234.52	284.94
110.5	8.49	36.04	123.05	222.19	269.82

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CANDELA TABULATION - (Cont.)

111.0	8.25	34.02	117.04	210.77	255.84
111.5	7.98	32.12	111.28	199.90	242.51
112.0	7.76	30.32	105.71	189.26	229.42
112.5	7.54	28.60	100.56	179.56	217.27
113.0	7.31	27.00	95.63	170.26	205.82
113.5	7.08	25.46	90.89	161.62	194.81
114.0	6.88	24.11	86.54	153.40	184.55
114.5	6.69	22.78	82.30	145.27	174.80
115.0	6.46	21.51	78.23	137.60	165.58
115.5	6.31	20.29	74.50	130.62	156.88
116.0	6.13	19.18	70.92	124.04	148.91
116.5	5.97	18.11	67.48	117.65	141.13
117.0	5.77	17.13	64.26	111.89	133.84
117.5	5.61	16.15	61.19	106.33	127.09
118.0	5.46	15.23	58.31	100.95	120.58
118.5	5.31	14.38	55.51	96.08	114.44
119.0	5.15	13.60	52.91	91.46	108.87
119.5	5.02	12.84	50.39	86.94	103.47
120.0	4.87	12.10	48.05	82.80	98.37
120.5	4.74	11.40	45.75	78.86	93.56
121.0	4.62	10.75	43.58	75.06	88.96
121.5	4.49	10.13	41.49	71.61	84.67
122.0	4.39	9.58	39.59	68.23	80.60
122.5	4.26	8.98	37.71	65.05	76.77
123.0	4.13	8.44	36.02	62.04	73.18
123.5	4.02	7.96	34.32	59.21	69.68
124.0	3.92	7.47	32.68	56.50	66.43
124.5	3.81	7.01	31.18	53.92	63.34
125.0	3.72	6.60	29.72	51.47	60.45
125.5	3.62	6.17	28.36	49.17	57.57
126.0	3.51	5.75	27.02	46.98	55.02
126.5	3.42	5.46	25.82	44.92	52.53
127.0	3.29	5.07	24.58	42.83	50.22
127.5	3.19	4.79	23.44	40.90	47.91
128.0	3.11	4.42	22.37	39.13	45.68
128.5	2.99	4.16	21.39	37.41	43.62
129.0	2.92	3.84	20.38	35.77	41.74
129.5	2.79	3.59	19.45	34.23	39.94
130.0	2.70	3.33	18.58	32.75	38.05
130.5	2.62	3.04	17.76	31.33	36.46
131.0	2.56	2.82	16.88	29.92	34.83
131.5	2.45	2.58	16.18	28.61	33.38
132.0	2.37	2.44	15.39	27.39	31.95
132.5	2.30	2.30	14.69	26.27	30.45
133.0	2.22	2.24	13.98	25.16	29.33
133.5	2.14	2.16	13.27	24.04	27.97
134.0	2.09	2.07	12.68	22.97	26.82
134.5	2.02	2.07	12.09	21.96	25.66
135.0	1.97	2.02	11.49	21.07	24.57
135.5	1.89	1.97	10.91	20.13	23.51
136.0	1.84	1.89	10.33	19.26	22.38
136.5	1.80	1.84	9.80	18.42	21.51
137.0	1.75	1.77	9.26	17.71	20.59
137.5	1.69	1.72	8.76	16.82	19.65
138.0	1.62	1.68	8.27	16.18	18.77
138.5	1.61	1.63	7.79	15.46	17.91

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CANDELA TABULATION - (Cont.)

139.0	1.54	1.60	7.32	14.76	17.17
139.5	1.49	1.59	6.87	14.08	16.41
140.0	1.44	1.50	6.44	13.50	15.80
140.5	1.38	1.39	6.02	12.87	15.05
141.0	1.34	1.36	5.62	12.34	14.48
141.5	1.30	1.32	5.21	11.73	13.77
142.0	1.25	1.27	4.89	11.09	13.13
142.5	1.24	1.22	4.51	10.58	12.46
143.0	1.19	1.21	4.18	10.05	12.01
143.5	1.17	1.16	3.84	9.53	11.41
144.0	1.12	1.12	3.50	9.07	10.90
144.5	1.08	1.12	3.14	8.54	10.31
145.0	1.04	1.03	2.88	7.96	9.80
145.5	1.01	1.02	2.56	7.60	9.27
146.0	0.98	0.95	2.24	7.04	8.73
146.5	0.95	0.93	1.99	6.64	8.16
147.0	0.91	0.86	1.75	6.21	7.79
147.5	0.89	0.87	1.50	5.81	7.30
148.0	0.85	0.85	1.25	5.26	6.74
148.5	0.82	0.74	1.01	4.92	6.34
149.0	0.81	0.78	0.82	4.52	5.92
149.5	0.79	0.71	0.71	4.11	5.55
150.0	0.75	0.70	0.65	3.76	5.09
150.5	0.73	0.64	0.63	3.39	4.67
151.0	0.70	0.65	0.52	3.06	4.27
151.5	0.67	0.63	0.59	2.74	3.81
152.0	0.64	0.57	0.58	2.42	3.54
152.5	0.62	0.58	0.53	2.13	3.14
153.0	0.58	0.57	0.53	1.87	2.81
153.5	0.55	0.54	0.52	1.57	2.55
154.0	0.56	0.55	0.49	1.34	2.13
154.5	0.54	0.48	0.44	1.05	1.95
155.0	0.53	0.52	0.44	0.81	1.68
155.5	0.53	0.49	0.44	0.66	1.34
156.0	0.53	0.52	0.42	0.54	1.18
156.5	0.52	0.49	0.45	0.58	0.79
157.0	0.52	0.51	0.41	0.56	0.69
157.5	0.51	0.52	0.40	0.56	0.52
158.0	0.51	0.53	0.41	0.58	0.60
158.5	0.54	0.53	0.41	0.56	0.62
159.0	0.53	0.52	0.45	0.53	0.56
159.5	0.51	0.50	0.42	0.53	0.58
160.0	0.53	0.52	0.42	0.55	0.53
160.5	0.52	0.46	0.41	0.50	0.53
161.0	0.54	0.45	0.42	0.57	0.39
161.5	0.52	0.50	0.42	0.47	0.48
162.0	0.54	0.47	0.36	0.50	0.54
162.5	0.53	0.51	0.38	0.49	0.53
163.0	0.50	0.47	0.36	0.48	0.52
163.5	0.51	0.50	0.36	0.48	0.45
164.0	0.50	0.46	0.40	0.45	0.39
164.5	0.51	0.49	0.34	0.43	0.42
165.0	0.50	0.48	0.32	0.51	0.42
165.5	0.46	0.46	0.39	0.44	0.39
166.0	0.50	0.45	0.32	0.41	0.49
166.5	0.50	0.46	0.35	0.43	0.46

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CANDELA TABULATION - (Cont.)

167.0	0.49	0.46	0.36	0.42	0.39
167.5	0.53	0.47	0.34	0.43	0.36
168.0	0.51	0.45	0.38	0.42	0.35
168.5	0.50	0.48	0.30	0.39	0.36
169.0	0.52	0.43	0.32	0.40	0.32
169.5	0.50	0.46	0.31	0.41	0.35
170.0	0.50	0.46	0.26	0.39	0.44
170.5	0.50	0.48	0.29	0.39	0.39
171.0	0.50	0.47	0.29	0.40	0.38
171.5	0.48	0.49	0.31	0.33	0.27
172.0	0.50	0.44	0.29	0.42	0.34
172.5	0.50	0.49	0.31	0.34	0.28
173.0	0.50	0.46	0.28	0.32	0.33
173.5	0.51	0.49	0.30	0.40	0.40
174.0	0.51	0.45	0.26	0.34	0.35
174.5	0.50	0.45	0.26	0.32	0.31
175.0	0.50	0.44	0.35	0.36	0.27
175.5	0.47	0.39	0.28	0.35	0.32
176.0	0.50	0.42	0.31	0.32	0.34
176.5	0.49	0.44	0.26	0.34	0.32
177.0	0.49	0.46	0.28	0.33	0.41
177.5	0.47	0.44	0.23	0.37	0.28
178.0	0.48	0.48	0.29	0.35	0.31
178.5	0.48	0.46	0.25	0.29	0.29
179.0	0.50	0.44	0.29	0.29	0.27
179.5	0.49	0.43	0.26	0.26	0.28
180.0	0.34	0.34	0.34	0.34	0.34

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	90.65	N.A.	2.20
0-30	236.57	N.A.	5.90
0-40	504.92	N.A.	12.50
0-60	1452.66	N.A.	36.00
0-80	2688.87	N.A.	66.60
0-90	3243.07	N.A.	80.30
10-90	3221.92	N.A.	79.80
20-40	414.26	N.A.	10.30
20-50	822.58	N.A.	20.40
40-70	1565.72	N.A.	38.80
60-80	1236.2	N.A.	30.60
70-80	618.23	N.A.	15.30
80-90	554.21	N.A.	13.70
90-110	670.61	N.A.	16.60
90-120	755.48	N.A.	18.70
90-130	783.74	N.A.	19.40
90-150	796.28	N.A.	19.70
90-180	796.90	N.A.	19.70
110-180	126.29	N.A.	3.10
0-180	4039.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	21.15
10-20	69.51
20-30	145.92
30-40	268.34
40-50	408.32
50-60	539.42
60-70	617.97
70-80	618.23
80-90	554.21
90-100	432.33
100-110	238.28
110-120	84.87
120-130	28.26
130-140	9.67
140-150	2.88
150-160	0.45
160-170	0.13
170-180	0.04

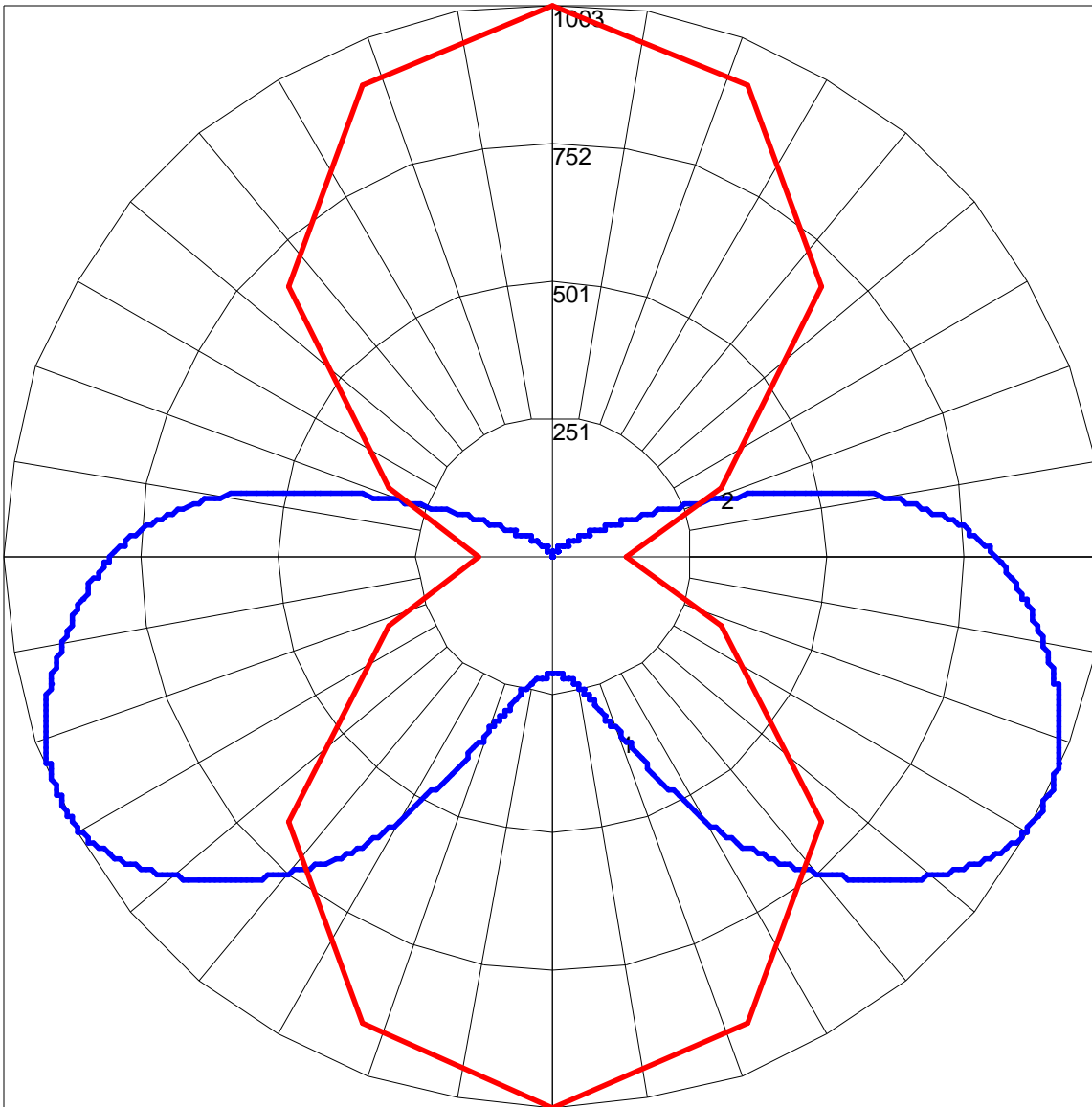
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	114	114	114	114	109	109	109	109	100	100	100	92	92	92	84	84	84	80
1	97	89	83	76	92	85	79	73	77	72	67	69	65	61	63	59	56	52
2	85	74	64	56	80	70	61	54	63	56	49	56	50	45	50	45	41	37
3	76	62	51	43	71	59	49	41	53	44	38	47	40	35	42	36	31	28
4	68	53	42	34	64	50	40	32	45	37	30	40	33	27	36	30	25	21
5	62	46	35	28	58	44	34	26	39	31	24	35	28	22	31	25	20	17
6	56	41	30	23	53	39	29	22	35	26	20	31	24	18	28	21	17	14
7	52	36	26	19	49	35	25	18	31	23	17	28	21	15	25	19	14	11
8	48	33	23	16	45	31	22	16	28	20	15	25	18	13	22	16	12	10
9	44	30	20	14	42	28	20	14	25	18	13	23	16	11	21	15	10	8
10	41	27	18	13	39	26	18	12	23	16	11	21	15	10	19	13	9	7

POLAR GRAPH



Maximum Candela = 1002.56 Located At Horizontal Angle = 90, Vertical Angle = 63.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (63.5) (Through Max. Cd.)