



IES INDOOR REPORT

PHOTOMETRIC FILENAME : NUVHTVLOWT50VWD120-277V.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]
 [TESTLAB] BEGHELLI
 [TESTDATE] 2016-04-05
 [ISSUEDATE] 2016-04-06 14:41:40
 [NEARFIELD]
 [LAMPPOSITION] 0,0
 [MANUFAC] BEGHELLI
 [LUMINAIRE] NUVHTVLOWT50VWD120-277V
 [LAMP] 5000K Ra80

CHARACTERISTICS

Lumens Per Lamp	10508 (1 lamp)
Total Lamp Lumens	10508
Luminaire Lumens	10508
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	91.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.26 m (Diameter)
Luminous Width (90-270)	0.26 m (Diameter)
Luminous Height	0.12 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	43749	42616	41859
55	34370	33220	32424
65	24219	22637	21392
75	10373	8748	7761
85	919	596	421

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CANDELA TABULATION

	0	15	30	45	60	75	90	105	120	135
0	3980.47	3980.47	3980.47	3980.47	3980.47	3980.47	3980.47	3980.47	3980.47	3980.47
1	3980.52	3980.46	3978.87	3978.83	3977.62	3977.57	3976.86	3976.82	3977.66	3977.65
2	3979.30	3978.76	3976.45	3975.49	3973.99	3973.13	3972.77	3972.36	3973.56	3973.93
3	3976.47	3975.53	3972.72	3971.45	3969.08	3968.54	3967.78	3966.99	3968.55	3968.65
4	3972.03	3970.97	3967.51	3966.46	3963.69	3962.90	3962.21	3961.28	3962.85	3963.01
5	3967.10	3966.13	3962.08	3960.79	3957.99	3957.05	3956.06	3955.22	3956.84	3956.57
6	3961.05	3960.33	3956.37	3954.60	3951.81	3950.42	3949.94	3948.63	3950.10	3949.62
7	3954.91	3953.72	3949.77	3947.97	3944.57	3943.33	3941.77	3940.93	3942.96	3942.10
8	3947.95	3946.78	3942.09	3940.62	3936.19	3934.69	3933.47	3932.94	3934.26	3933.96
9	3939.64	3938.93	3933.90	3932.31	3926.51	3925.06	3923.84	3922.75	3924.93	3924.40
10	3931.13	3929.78	3924.44	3921.93	3915.69	3913.90	3913.10	3911.81	3913.81	3913.09
11	3920.70	3919.81	3913.32	3910.35	3903.65	3901.04	3900.56	3899.25	3901.65	3901.24
12	3909.23	3907.66	3900.46	3897.80	3890.18	3887.62	3887.02	3884.92	3887.72	3887.03
13	3896.18	3894.28	3886.76	3883.14	3875.45	3872.11	3872.10	3869.53	3872.78	3871.96
14	3882.43	3880.24	3871.61	3867.91	3859.38	3856.05	3855.53	3852.98	3856.88	3855.14
15	3866.65	3864.15	3855.44	3851.25	3841.63	3838.65	3837.97	3835.51	3838.96	3837.63
16	3849.53	3847.47	3837.46	3833.81	3823.28	3819.56	3819.07	3816.57	3820.08	3818.75
17	3831.44	3829.27	3819.06	3814.06	3803.43	3799.85	3799.61	3796.34	3800.20	3798.71
18	3812.31	3810.25	3798.92	3793.29	3782.23	3778.87	3778.15	3775.10	3779.18	3777.72
19	3791.60	3789.81	3777.72	3771.60	3760.18	3756.54	3756.25	3752.03	3756.72	3755.02
20	3769.75	3768.62	3755.94	3749.50	3736.72	3733.22	3732.53	3728.89	3733.89	3731.26
21	3748.28	3745.91	3733.01	3725.17	3712.35	3708.28	3707.53	3703.92	3709.58	3707.30
22	3724.15	3722.31	3707.91	3700.69	3686.71	3682.32	3681.69	3678.09	3683.24	3680.82
23	3699.05	3697.09	3682.63	3674.26	3660.09	3655.85	3654.89	3650.72	3656.48	3653.81
24	3672.62	3670.96	3655.47	3646.87	3632.43	3627.63	3626.80	3623.14	3627.10	3625.69
25	3644.99	3643.70	3626.96	3618.70	3603.71	3598.21	3597.72	3593.32	3598.48	3596.85
26	3616.45	3614.44	3597.94	3589.55	3573.04	3567.14	3566.80	3562.75	3567.39	3565.45
27	3586.17	3584.35	3566.98	3558.12	3541.74	3536.10	3535.13	3530.72	3535.58	3533.77
28	3554.90	3553.78	3535.43	3527.08	3509.48	3503.18	3502.04	3497.53	3502.83	3501.15
29	3523.15	3521.10	3502.54	3493.49	3475.53	3469.70	3468.30	3463.07	3468.61	3466.40
30	3488.51	3486.74	3469.24	3459.75	3440.57	3434.23	3433.48	3427.61	3433.96	3432.20
31	3454.51	3452.25	3433.56	3424.63	3404.19	3398.47	3396.59	3390.53	3397.62	3394.98
32	3418.96	3416.17	3397.42	3388.17	3367.05	3360.66	3358.51	3353.03	3360.08	3357.82
33	3382.01	3379.25	3359.61	3350.21	3328.99	3321.75	3319.73	3313.55	3322.22	3319.44
34	3344.15	3340.83	3320.25	3310.80	3288.94	3281.08	3279.92	3273.44	3282.35	3280.19
35	3305.00	3301.42	3280.43	3270.18	3248.43	3239.33	3237.99	3232.47	3240.70	3238.55
36	3264.65	3259.93	3237.00	3226.22	3201.59	3192.98	3192.41	3186.48	3197.38	3194.94
37	3219.71	3213.63	3186.36	3175.24	3146.82	3140.36	3140.01	3134.25	3146.15	3145.59
38	3168.01	3161.02	3129.85	3116.80	3085.72	3079.24	3079.23	3072.20	3089.02	3088.09
39	3108.93	3099.14	3060.82	3044.81	3009.51	3003.07	3006.28	2998.95	3020.36	3020.51
40	3037.11	3023.73	2978.44	2960.21	2921.28	2915.99	2917.27	2910.97	2936.11	2938.27
41	2949.12	2935.79	2888.46	2871.91	2831.71	2826.92	2828.61	2821.40	2847.08	2847.42
42	2858.19	2847.12	2801.62	2785.35	2743.97	2741.67	2742.06	2731.39	2758.89	2757.29
43	2768.60	2761.47	2715.50	2698.79	2663.17	2656.43	2655.50	2649.30	2670.71	2670.32
44	2682.86	2675.82	2635.91	2612.43	2589.48	2571.60	2569.34	2573.46	2582.84	2591.67
45	2608.72	2590.41	2562.82	2541.16	2517.99	2500.53	2496.05	2500.03	2509.23	2517.74
46	2537.01	2517.07	2491.82	2471.08	2447.93	2430.92	2426.02	2429.24	2437.83	2446.00
47	2466.98	2448.31	2421.98	2402.31	2379.52	2362.61	2356.70	2360.09	2366.87	2375.61
48	2398.80	2379.40	2353.21	2335.23	2310.97	2294.08	2288.62	2292.06	2297.01	2305.86
49	2330.94	2310.74	2285.80	2267.43	2243.24	2226.36	2221.70	2221.97	2228.09	2236.75
50	2263.38	2243.20	2216.78	2200.16	2175.54	2158.45	2154.67	2154.42	2160.98	2168.14
51	2196.21	2175.33	2149.81	2132.71	2108.70	2090.35	2088.54	2085.77	2091.25	2099.84
52	2129.09	2108.13	2083.65	2066.21	2042.37	2022.94	2021.29	2018.60	2024.44	2030.57
53	2061.94	2041.04	2015.88	1998.24	1973.57	1954.75	1953.26	1950.06	1956.01	1962.87

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CANDELA TABULATION - (Cont.)

54	1994.04	1975.06	1949.58	1930.88	1905.19	1886.86	1885.69	1881.06	1888.40	1894.17
55	1925.90	1907.35	1880.37	1861.46	1836.64	1818.59	1816.83	1811.24	1819.23	1825.59
56	1858.59	1840.31	1813.48	1792.94	1768.19	1750.12	1749.44	1742.14	1750.53	1756.18
57	1790.20	1772.95	1747.50	1724.20	1699.49	1681.03	1678.91	1671.00	1681.40	1685.15
58	1722.49	1705.56	1678.05	1654.07	1630.15	1611.35	1607.72	1601.27	1610.52	1613.68
59	1653.47	1636.13	1608.67	1584.59	1560.34	1541.49	1537.65	1531.45	1540.52	1544.01
60	1584.04	1565.03	1536.98	1514.90	1489.74	1470.59	1467.02	1461.04	1468.30	1473.85
61	1513.88	1494.55	1468.04	1447.20	1419.13	1400.06	1396.23	1389.41	1396.25	1402.73
62	1446.32	1424.62	1398.03	1376.32	1347.54	1328.18	1325.12	1317.64	1323.11	1331.93
63	1376.15	1354.06	1326.46	1305.10	1276.70	1256.78	1254.15	1248.15	1253.35	1261.83
64	1303.07	1283.24	1253.93	1233.45	1197.73	1181.15	1178.81	1157.73	1181.05	1172.78
65	1228.79	1210.24	1164.00	1148.52	1102.78	1085.24	1085.35	1067.23	1088.41	1083.34
66	1136.44	1124.38	1074.07	1049.72	1007.82	987.83	987.99	976.73	991.20	993.90
67	1043.97	1027.01	984.13	961.18	922.73	903.10	903.27	895.40	906.72	910.69
68	952.36	937.25	900.88	879.89	843.28	825.20	824.79	817.61	827.72	832.31
69	868.07	856.61	821.60	801.47	768.77	750.64	751.03	741.99	753.23	755.30
70	794.36	779.50	749.77	731.25	697.73	680.43	677.98	669.38	680.30	680.15
71	722.57	710.83	681.52	659.80	629.70	610.97	610.48	601.07	614.27	609.91
72	654.56	637.57	607.89	592.02	562.13	543.91	542.40	536.49	547.12	545.81
73	581.46	569.98	543.64	523.59	498.39	481.45	477.70	469.86	480.20	477.74
74	522.56	506.24	482.67	461.63	427.80	408.80	404.10	398.02	406.54	408.54
75	455.33	440.85	407.37	384.03	359.79	343.17	340.68	336.34	342.89	344.26
76	382.40	364.54	341.93	324.11	302.16	288.87	285.08	279.29	285.11	288.00
77	319.45	308.99	290.46	274.31	249.78	241.34	238.71	234.21	238.98	238.53
78	270.46	258.70	236.21	224.52	204.59	193.91	192.37	190.83	192.95	195.24
79	217.99	208.48	193.84	180.32	164.55	152.47	152.67	151.24	154.86	155.30
80	179.70	169.88	153.63	143.73	127.85	119.17	118.09	118.00	119.68	122.29
81	142.08	131.93	121.74	110.91	96.71	89.26	86.12	84.81	87.92	89.33
82	111.10	99.94	89.91	79.84	67.92	61.02	59.33	57.93	59.92	61.63
83	80.17	71.53	61.71	52.39	43.97	39.35	37.56	36.31	37.88	38.83
84	52.15	47.16	39.13	32.66	27.23	23.97	23.47	22.93	23.51	24.00
85	32.82	29.02	24.09	21.29	17.98	15.64	15.05	14.52	14.99	15.44
86	20.84	18.79	15.88	13.25	10.49	8.64	8.16	7.68	7.97	8.31
87	13.01	11.19	9.04	7.26	5.73	5.00	4.75	4.65	4.72	4.81
88	7.02	6.07	5.06	4.53	4.08	3.77	3.60	3.59	3.59	3.64
89	4.47	4.15	3.86	3.73	3.76	3.89	3.75	3.71	3.74	3.67
90	3.71	3.74	3.82	3.93	4.02	4.14	3.98	3.98	3.99	3.94

**Vert.
Angles**

Horizontal Angles

	150	165	180	195	210	225	240	255	270	285
0	3980.47	3980.47	3980.47	3980.47	3980.47	3980.47	3980.47	3980.47	3980.47	3980.47
1	3978.47	3978.01	3978.83	3979.27	3980.05	3980.49	3981.26	3981.75	3982.17	3982.44
2	3974.78	3974.81	3975.53	3976.79	3977.98	3979.67	3981.21	3981.79	3981.80	3982.01
3	3970.20	3969.86	3970.94	3972.72	3975.02	3976.81	3979.17	3980.19	3980.19	3980.73
4	3964.45	3964.61	3966.03	3967.86	3970.51	3972.36	3975.45	3976.88	3976.99	3977.89
5	3958.42	3958.40	3960.40	3961.82	3965.11	3967.51	3970.98	3972.00	3972.11	3973.43
6	3951.77	3952.00	3953.43	3955.08	3958.63	3961.42	3965.11	3966.66	3966.90	3967.74
7	3944.51	3944.12	3946.04	3948.17	3952.12	3954.73	3958.96	3960.58	3960.63	3961.63
8	3936.37	3936.05	3938.09	3940.01	3944.37	3946.97	3951.18	3953.23	3953.50	3954.59
9	3927.17	3926.72	3928.84	3930.70	3935.89	3938.41	3943.03	3945.29	3945.61	3947.36
10	3916.51	3915.92	3918.41	3920.59	3925.73	3928.67	3934.01	3936.31	3937.56	3939.15
11	3904.63	3903.72	3906.22	3909.19	3914.70	3918.14	3924.28	3926.08	3927.65	3929.76
12	3891.59	3890.38	3892.98	3895.81	3902.34	3905.56	3912.77	3915.52	3916.58	3918.50
13	3876.67	3875.33	3878.79	3881.48	3888.64	3892.51	3899.84	3902.84	3904.01	3906.24
14	3860.39	3859.31	3862.99	3865.73	3873.01	3877.40	3885.86	3888.76	3890.34	3892.78

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15	3843.02	3841.50	3845.79	3849.09	3856.94	3861.50	3870.24	3873.61	3875.01	3877.70
16	3823.96	3823.15	3827.61	3830.56	3839.86	3843.50	3852.78	3857.07	3858.34	3861.41
17	3804.47	3803.18	3808.17	3811.02	3820.67	3824.75	3835.05	3839.56	3840.80	3843.69
18	3783.50	3782.04	3787.64	3790.40	3800.45	3804.36	3815.60	3820.28	3821.20	3824.61
19	3761.24	3759.38	3765.18	3769.10	3779.47	3783.09	3794.81	3799.89	3800.47	3804.32
20	3738.20	3736.84	3742.21	3746.21	3757.45	3761.07	3772.76	3778.53	3779.14	3783.05
21	3714.41	3712.62	3718.68	3722.58	3734.10	3737.77	3750.62	3756.48	3756.49	3760.53
22	3689.15	3686.99	3692.72	3697.26	3709.67	3714.00	3726.59	3733.25	3732.91	3737.26
23	3662.37	3660.00	3666.17	3670.59	3684.27	3688.50	3701.61	3707.68	3708.62	3712.99
24	3634.39	3632.09	3638.34	3643.33	3657.02	3662.34	3675.97	3682.07	3682.55	3686.40
25	3605.51	3603.23	3609.42	3614.81	3629.20	3634.33	3648.90	3654.85	3655.22	3660.09
26	3575.43	3572.65	3579.25	3585.27	3599.91	3605.22	3619.90	3626.67	3627.09	3631.90
27	3544.22	3540.76	3548.12	3554.54	3569.45	3574.95	3590.82	3597.68	3597.62	3603.33
28	3511.10	3507.73	3515.36	3522.61	3537.86	3543.53	3560.30	3567.06	3567.66	3573.36
29	3477.32	3473.88	3482.24	3489.13	3505.18	3511.42	3528.55	3534.86	3536.40	3541.82
30	3442.59	3438.41	3447.79	3455.03	3471.70	3477.95	3495.97	3502.24	3503.18	3509.53
31	3406.39	3402.90	3412.21	3419.22	3436.89	3443.08	3461.10	3468.10	3469.40	3475.64
32	3368.68	3365.23	3374.46	3382.24	3399.89	3407.64	3426.08	3433.54	3434.21	3440.45
33	3330.73	3326.56	3337.37	3344.66	3362.65	3369.83	3389.73	3397.49	3397.61	3403.55
34	3291.24	3286.69	3298.20	3304.77	3324.24	3331.98	3352.26	3359.64	3359.37	3366.53
35	3250.19	3245.38	3257.62	3264.70	3283.12	3293.23	3313.35	3321.54	3320.80	3327.25
36	3207.61	3202.05	3215.50	3222.07	3242.00	3251.77	3272.21	3280.95	3280.53	3287.36
37	3161.53	3156.92	3171.65	3178.89	3198.93	3209.64	3230.79	3239.84	3237.71	3245.43
38	3107.72	3102.00	3120.45	3128.29	3152.03	3161.93	3186.18	3195.08	3193.97	3200.63
39	3045.36	3041.25	3062.35	3071.09	3097.80	3108.24	3135.38	3144.25	3140.48	3147.58
40	2968.65	2966.03	2992.73	3003.61	3035.34	3046.49	3076.80	3085.45	3081.29	3088.41
41	2879.99	2876.71	2907.75	2919.56	2956.60	2969.89	3005.22	3014.90	3010.13	3015.39
42	2792.23	2783.61	2813.40	2825.77	2868.32	2880.27	2920.14	2930.20	2922.18	2930.67
43	2701.43	2693.12	2722.81	2733.02	2776.82	2788.52	2828.89	2837.73	2832.45	2841.73
44	2610.67	2610.12	2632.21	2642.47	2685.33	2700.03	2740.36	2748.34	2744.32	2755.50
45	2532.98	2533.00	2541.74	2560.75	2594.04	2616.04	2651.83	2661.06	2660.82	2669.26
46	2460.33	2459.13	2466.39	2485.93	2517.56	2539.91	2563.52	2582.89	2582.47	2583.03
47	2390.12	2388.35	2393.43	2414.13	2445.17	2468.07	2490.79	2509.50	2509.48	2509.42
48	2319.96	2317.11	2322.30	2341.63	2371.57	2396.66	2419.79	2437.00	2437.80	2439.46
49	2251.21	2247.93	2254.01	2273.85	2302.54	2327.11	2349.97	2366.51	2367.68	2369.99
50	2182.04	2176.75	2184.28	2201.68	2233.12	2257.33	2282.09	2297.30	2296.07	2299.22
51	2113.21	2109.11	2116.07	2132.80	2161.00	2186.19	2212.11	2227.58	2229.11	2232.79
52	2045.82	2040.87	2049.34	2065.67	2093.44	2118.07	2144.14	2159.45	2161.38	2164.39
53	1976.70	1972.06	1980.56	1996.00	2023.52	2050.01	2077.65	2091.41	2092.93	2094.73
54	1907.91	1903.79	1911.49	1926.84	1954.53	1980.03	2007.72	2024.30	2026.79	2028.99
55	1839.37	1835.14	1843.08	1857.25	1884.85	1910.42	1939.30	1955.57	1959.48	1961.21
56	1771.77	1766.81	1774.42	1789.75	1817.40	1842.10	1870.72	1887.53	1890.74	1894.11
57	1701.37	1696.45	1704.77	1720.78	1749.28	1772.72	1802.60	1819.24	1821.65	1825.77
58	1630.00	1626.51	1634.12	1650.67	1677.64	1702.17	1731.62	1748.96	1753.67	1758.74
59	1560.79	1557.15	1564.90	1582.64	1608.91	1634.19	1661.65	1680.76	1684.65	1689.90
60	1490.41	1488.19	1496.35	1514.72	1539.93	1565.82	1590.91	1612.65	1614.62	1618.48
61	1417.86	1415.28	1424.85	1443.54	1471.60	1496.34	1521.38	1543.45	1543.80	1545.90
62	1343.63	1342.83	1352.64	1369.66	1398.72	1424.25	1449.87	1472.28	1474.37	1476.38
63	1272.69	1274.10	1281.73	1298.69	1326.69	1352.46	1378.51	1401.05	1404.15	1407.70
64	1202.14	1198.48	1213.49	1229.30	1258.23	1281.88	1308.13	1329.94	1333.05	1336.48
65	1115.26	1104.10	1133.09	1136.37	1186.14	1211.86	1238.52	1257.47	1256.99	1260.62
66	1013.43	1009.29	1028.79	1043.36	1089.32	1113.03	1159.34	1165.92	1168.13	1185.33
67	927.50	922.90	936.61	949.90	988.74	1013.62	1057.99	1074.14	1079.01	1091.81
68	851.15	843.42	858.54	870.72	906.45	927.29	963.98	982.37	989.89	997.71
69	770.15	768.36	781.59	795.83	830.93	848.43	882.67	899.86	902.19	909.37
70	697.40	689.72	705.78	714.80	752.32	774.13	805.09	822.41	822.38	829.27

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CANDELA TABULATION - (Cont.)

71	625.21	624.47	634.76	647.25	678.73	696.40	728.99	748.33	750.51	756.61
72	564.08	557.10	572.43	577.49	610.95	630.47	655.94	676.16	679.22	687.16
73	494.91	490.61	501.89	515.12	544.86	562.23	591.60	607.56	608.95	614.45
74	426.84	419.78	435.45	445.50	479.09	497.42	524.61	538.58	540.69	547.06
75	359.79	357.96	363.80	378.41	406.96	422.43	461.53	476.71	480.85	484.95
76	299.72	295.35	304.48	315.26	342.36	358.01	385.78	401.61	405.70	412.68
77	251.10	244.19	255.69	263.61	283.63	299.13	325.46	336.37	340.25	346.34
78	202.58	201.79	206.93	217.71	236.79	250.58	273.09	282.84	287.40	293.53
79	163.76	159.71	165.07	172.86	189.96	202.98	220.81	233.25	235.53	244.64
80	125.62	125.53	127.53	137.86	151.67	160.97	178.33	190.29	191.81	195.77
81	94.26	91.42	97.52	104.68	116.50	127.41	140.90	149.37	152.34	154.57
82	66.70	63.29	68.45	74.49	85.51	94.80	107.53	116.97	119.88	120.49
83	42.27	41.53	43.88	48.14	56.79	64.45	76.39	84.62	87.50	89.27
84	25.82	25.33	26.96	29.77	35.77	42.25	50.42	56.94	59.56	61.00
85	16.88	16.54	17.52	19.42	22.66	25.60	31.28	36.15	37.97	38.96
86	9.29	9.06	9.79	11.31	14.20	16.82	20.17	22.48	23.06	23.53
87	5.11	5.10	5.30	5.86	7.49	9.38	12.13	14.42	15.04	15.41
88	3.72	3.71	3.81	4.08	4.68	5.23	6.46	7.81	8.33	8.62
89	3.67	3.63	3.64	3.52	3.52	3.74	4.16	4.65	4.87	4.92
90	3.94	3.90	3.90	3.79	3.73	3.60	3.55	3.53	3.73	3.73

Vert. Horizontal Angles

	300	315	330	345	360
0	3980.47	3980.47	3980.47	3980.47	3980.47
1	3982.54	3981.68	3981.73	3981.64	3980.52
2	3982.16	3981.62	3980.16	3980.43	3979.30
3	3980.13	3979.60	3977.70	3977.97	3976.47
4	3976.91	3976.26	3973.66	3973.78	3972.03
5	3972.01	3971.45	3969.11	3968.88	3967.10
6	3966.00	3966.11	3963.02	3963.14	3961.05
7	3959.90	3959.47	3956.04	3956.99	3954.91
8	3952.51	3952.11	3949.26	3949.93	3947.95
9	3945.04	3944.32	3941.32	3942.28	3939.64
10	3936.52	3936.09	3932.79	3933.99	3931.13
11	3926.95	3926.50	3922.88	3924.13	3920.70
12	3915.51	3915.61	3911.64	3912.85	3909.23
13	3902.89	3903.49	3899.26	3900.08	3896.18
14	3889.22	3889.63	3884.96	3885.79	3882.43
15	3873.81	3874.69	3869.64	3870.64	3866.65
16	3857.54	3858.38	3853.13	3854.27	3849.53
17	3839.91	3841.14	3835.19	3836.23	3831.44
18	3820.66	3822.35	3815.23	3816.70	3812.31
19	3800.28	3802.22	3794.98	3796.46	3791.60
20	3778.51	3781.09	3773.35	3774.76	3769.75
21	3756.26	3758.07	3750.82	3751.97	3748.28
22	3733.33	3735.34	3727.01	3728.29	3724.15
23	3708.97	3710.28	3701.15	3703.18	3699.05
24	3682.43	3684.57	3675.73	3676.55	3672.62
25	3655.51	3657.27	3647.95	3649.59	3644.99
26	3627.32	3629.54	3619.69	3621.32	3616.45
27	3598.18	3599.96	3589.98	3591.77	3586.17
28	3567.43	3569.66	3559.25	3561.41	3554.90
29	3535.93	3537.98	3527.65	3529.44	3523.15
30	3503.10	3504.32	3494.13	3496.35	3488.51
31	3468.95	3470.29	3459.36	3462.57	3454.51

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CANDELA TABULATION - (Cont.)

32	3433.58	3435.64	3423.84	3427.59	3418.96
33	3396.79	3399.45	3387.46	3390.95	3382.01
34	3359.36	3362.07	3349.48	3352.59	3344.15
35	3321.02	3323.51	3310.58	3314.16	3305.00
36	3280.87	3283.47	3269.76	3273.83	3264.65
37	3239.33	3240.86	3224.82	3229.74	3219.71
38	3191.77	3193.40	3173.54	3179.65	3168.01
39	3137.06	3136.98	3115.14	3120.72	3108.93
40	3073.27	3071.65	3042.07	3050.65	3037.11
41	2994.36	2989.94	2956.30	2965.47	2949.12
42	2904.42	2901.15	2868.87	2876.70	2858.19
43	2812.21	2810.52	2780.60	2788.76	2768.60
44	2724.04	2726.54	2697.89	2703.57	2682.86
45	2643.70	2642.56	2621.41	2618.66	2608.72
46	2570.30	2559.06	2547.78	2544.66	2537.01
47	2499.27	2489.34	2477.43	2476.00	2466.98
48	2430.31	2420.61	2408.69	2407.02	2398.80
49	2360.49	2351.18	2339.09	2339.10	2330.94
50	2291.95	2284.31	2272.71	2271.94	2263.38
51	2224.53	2217.36	2205.57	2204.11	2196.21
52	2156.84	2150.11	2137.96	2136.77	2129.09
53	2088.68	2081.57	2071.10	2069.11	2061.94
54	2021.19	2015.84	2003.06	2002.18	1994.04
55	1953.31	1948.01	1934.07	1932.75	1925.90
56	1884.25	1878.65	1866.03	1865.06	1858.59
57	1816.00	1810.42	1796.45	1795.80	1790.20
58	1748.71	1742.59	1729.52	1727.45	1722.49
59	1680.94	1675.55	1660.56	1658.57	1653.47
60	1610.78	1605.04	1589.29	1589.11	1584.04
61	1538.81	1534.29	1519.79	1519.71	1513.88
62	1470.66	1465.13	1450.61	1452.55	1446.32
63	1401.30	1396.90	1380.86	1383.16	1376.15
64	1329.25	1327.22	1308.59	1310.99	1303.07
65	1254.42	1252.66	1234.41	1237.22	1228.79
66	1165.17	1171.54	1141.60	1153.68	1136.44
67	1075.66	1073.41	1048.68	1055.96	1043.97
68	986.15	980.91	961.57	965.21	952.36
69	900.04	895.03	877.24	880.60	868.07
70	820.67	816.25	803.28	802.81	794.36
71	749.80	747.24	730.30	736.59	722.57
72	680.46	676.61	663.10	662.04	654.56
73	609.19	606.73	587.20	595.59	581.46
74	541.98	537.70	527.34	525.85	522.56
75	478.44	477.47	459.28	466.12	455.33
76	403.67	401.24	386.47	387.55	382.40
77	338.49	337.79	324.28	328.55	319.45
78	288.47	284.96	274.69	275.28	270.46
79	235.28	237.58	221.86	222.24	217.99
80	191.00	190.27	185.33	183.02	179.70
81	152.34	150.91	144.18	142.26	142.08
82	120.28	119.50	113.05	110.77	111.10
83	88.27	87.51	82.00	81.93	80.17
84	59.75	59.12	54.12	53.98	52.15
85	37.50	36.99	33.29	33.49	32.82
86	23.00	22.49	21.28	21.32	20.84
87	14.94	14.53	13.46	13.46	13.01

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CANDELA TABULATION - (Cont.)

88	8.28	7.96	7.28	7.24	7.02
89	4.85	4.72	4.54	4.54	4.47
90	3.75	3.71	3.70	3.70	3.71

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1466.19	14.00	14.00
0-30	3138.58	29.90	29.90
0-40	5185.66	49.30	49.30
0-60	8871.24	84.40	84.40
0-80	10459.67	99.50	99.50
0-90	10508.3	100.00	100.00
10-90	10131.13	96.40	96.40
20-40	3719.48	35.40	35.40
20-50	5720.2	54.40	54.40
40-70	4828.55	46.00	45.90
60-80	1588.43	15.10	15.10
70-80	445.45	4.20	4.20
80-90	48.63	0.50	0.50
90-110	0.00	0.00	0.00
90-120	0.00	0.00	0.00
90-130	0.00	0.00	0.00
90-150	0.00	0.00	0.00
90-180	0.00	0.00	0.00
110-180	0.00	0.00	0.00
0-180	10508.3	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	377.16
10-20	1089.02
20-30	1672.39
30-40	2047.09
40-50	2000.73
50-60	1684.85
60-70	1142.98
70-80	445.45
80-90	48.63
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

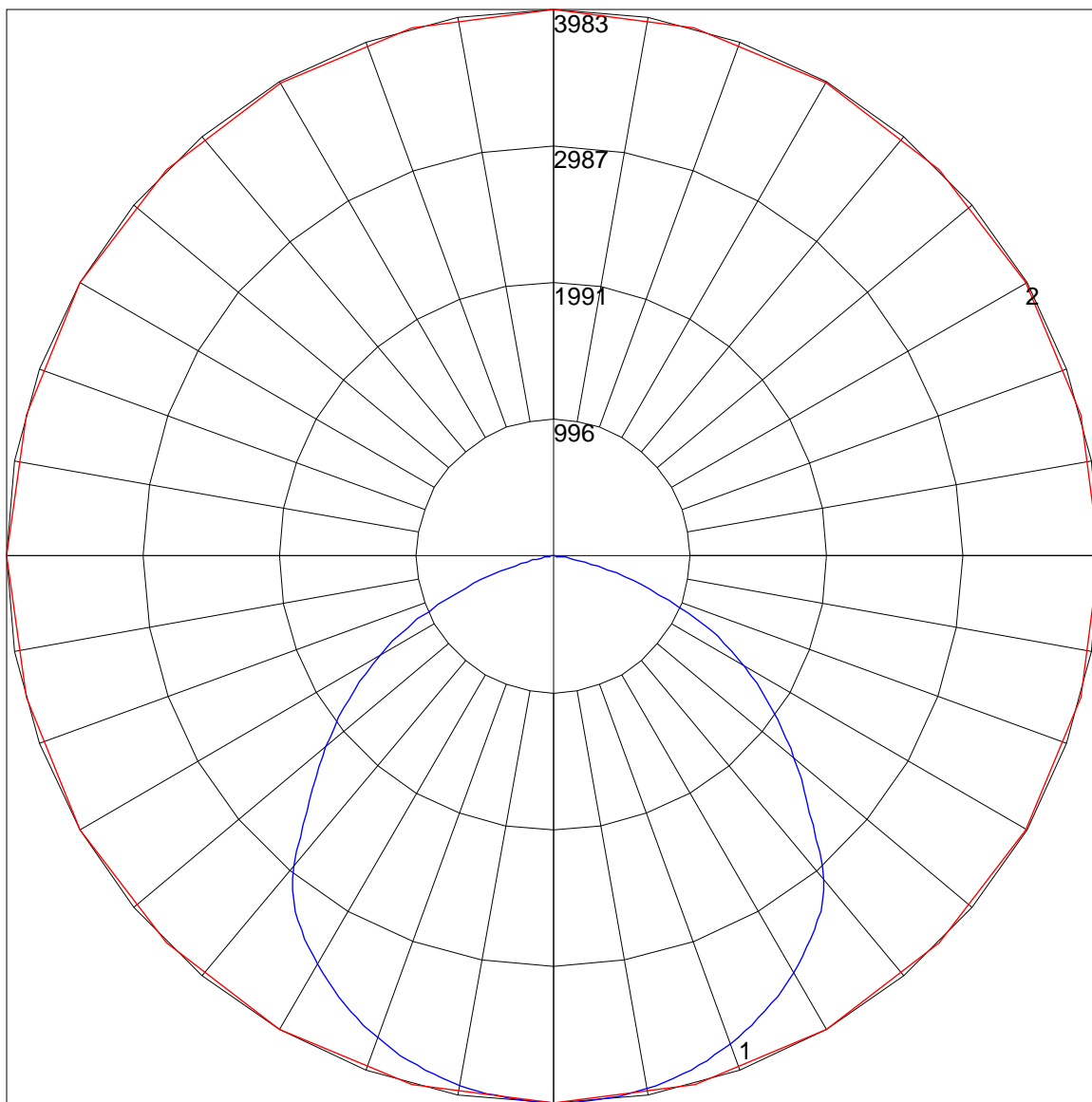
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73
3	92	82	74	68	90	81	73	68	78	71	66	75	70	65	72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	56	53
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	49	46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 3982.54 Located At Horizontal Angle = 300, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (300 - 120) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)