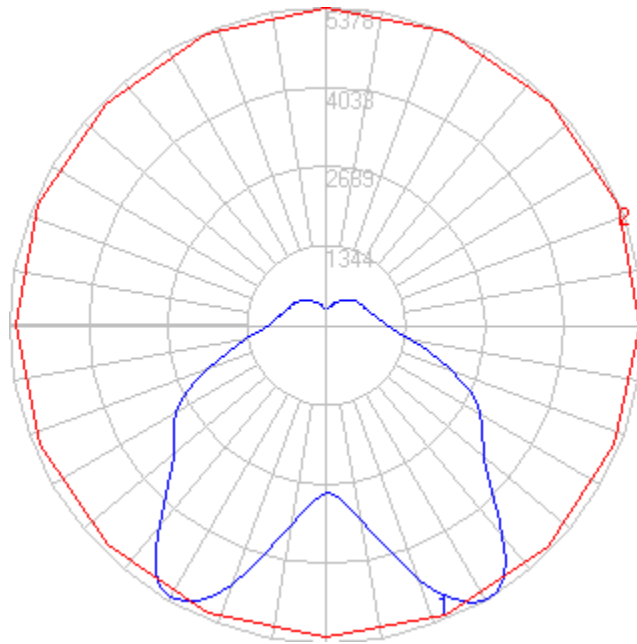


# LEXALITE®

an A.L.P. Lighting Brand

10163 US HWY 31 North, Charlevoix, MI 49720 231-547-6584

|                              |  |
|------------------------------|--|
| Test Report Number           | 06042  |
| Date of Test                 | 5/23/2017  |
| Manufacturer                 | A.L.P.-LEXALITE  |
| Catalog Number               | BT-HL200W  |
| Test Item                    | BETOP LED POD WITH 350 LEDS IN A CIRCULAR PATTERN WITH FLAT CLEAR LENS, LUMIEO S16 AND MOONGLOW WIDEBAY LENS |
| Lamp                         | HL200W-350L  |
| Operating Orientation        | PENDENT  |
| Driver Type                  | INTERNAL   |
| Test Time                    | 60 MINUTES   |
| Ambient Temperature (C)      | 24.9   |
| Stabilization Time           | 31 MINUTES   |
| Power Factor                 | .992   |
| Power (W)                    | 198.09   |
| Voltage(V)                   | 119.99   |
| Current(A)                   | 1.6639   |
| Notes                        | DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120Vac, 60Hz)                         |
| Luminous Flux                | 23095.14   |
| Luminous Efficacy            | 116.59   |
| Test Distance                | 22.25 FEET   |
| Test Equipment               | GONIOPHOTOMETER  |
| LAB Test Method Reference    | IESNA LM-79-08   |
| Technician                   | CG   |
| Spacing Criterion(0-180)     | 2.00   |
| Spacing Criterion(90-270)    | 2.00   |
| Spacing Criterion(diagonal)  | 1.90   |
| Sample Width(mm)             |  |
| Sample Height/Depth(mm)      |  |
| Luminous Diameter/Length(mm) |  |
| Luminous Width(mm)           |  |
| Luminous Height/Depth(mm)    |  |



## Coefficient of Utilization

### Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

| RC   | 80  |     |     |     | 70  |     |     |     | 50 |     |     | 30  |  |    | 10 |    |   | 0  |    |    |    |
|------|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|--|----|----|----|---|----|----|----|----|
| RW70 | 50  | 30  | 10  |     | 70  | 50  | 30  | 10  |    | 50  | 30  | 10  |  | 50 | 30 | 10 | 0 |    |    |    |    |
| 0    | 115 | 115 | 115 | 115 | 110 | 110 | 110 | 110 |    | 101 | 101 | 101 |  | 93 | 93 | 93 |   | 85 | 85 | 85 | 82 |
| 1    | 102 | 97  | 92  | 87  | 98  | 93  | 88  | 84  |    | 85  | 81  | 78  |  | 78 | 75 | 72 |   | 71 | 69 | 67 | 63 |
| 2    | 92  | 83  | 75  | 69  | 88  | 79  | 73  | 67  |    | 73  | 67  | 62  |  | 67 | 62 | 58 |   | 61 | 57 | 54 | 51 |
| 3    | 83  | 72  | 63  | 56  | 79  | 69  | 61  | 54  |    | 63  | 57  | 51  |  | 58 | 53 | 48 |   | 53 | 49 | 45 | 42 |
| 4    | 76  | 63  | 54  | 47  | 72  | 61  | 52  | 45  |    | 56  | 48  | 43  |  | 51 | 45 | 40 |   | 47 | 42 | 38 | 35 |
| 5    | 69  | 56  | 47  | 40  | 66  | 54  | 45  | 39  |    | 49  | 42  | 36  |  | 45 | 39 | 34 |   | 42 | 37 | 32 | 30 |
| 6    | 64  | 50  | 41  | 34  | 61  | 48  | 39  | 33  |    | 44  | 37  | 31  |  | 41 | 34 | 30 |   | 38 | 32 | 28 | 25 |
| 7    | 59  | 45  | 36  | 30  | 56  | 43  | 35  | 29  |    | 40  | 33  | 27  |  | 37 | 31 | 26 |   | 34 | 29 | 24 | 22 |
| 8    | 55  | 41  | 32  | 26  | 52  | 39  | 31  | 25  |    | 36  | 29  | 24  |  | 34 | 27 | 23 |   | 31 | 26 | 22 | 19 |
| 9    | 51  | 37  | 29  | 23  | 48  | 36  | 28  | 22  |    | 33  | 26  | 21  |  | 31 | 25 | 20 |   | 29 | 23 | 19 | 17 |
| 10   | 47  | 34  | 26  | 21  | 45  | 33  | 25  | 20  |    | 30  | 24  | 19  |  | 28 | 22 | 18 |   | 26 | 21 | 17 | 15 |

## Zonal Lumen Summary

|        | Summary Zonal Lumens | Zonal Lumens-% Lamp | Zonal Lumens-% Fixture |
|--------|----------------------|---------------------|------------------------|
| 0-30   | 3768.43              |                     | 16.32%                 |
| 0-40   | 7005.42              |                     | 30.33%                 |
| 0-60   | 12887.85             |                     | 55.80%                 |
| 0-90   | 18740.60             |                     | 81.15%                 |
| 90-110 | 1803.29              |                     | 7.81%                  |
| 90-130 | 3099.00              |                     | 13.42%                 |
| 90-150 | 4022.16              |                     | 17.42%                 |
| 90-180 | 4354.54              |                     | 18.85%                 |

|       | Zonal Lumens |         | Zonal Lumens |
|-------|--------------|---------|--------------|
| 0-10  | 285.09       | 170-180 | 26.33        |
| 10-20 | 1110.09      | 160-170 | 101.87       |
| 20-30 | 2373.25      | 150-160 | 204.18       |
| 30-40 | 3236.99      | 140-150 | 329.89       |
| 40-50 | 3010.18      | 130-140 | 593.27       |
| 50-60 | 2872.25      | 120-130 | 593.27       |
| 60-70 | 2664.39      | 110-120 | 702.44       |
| 70-80 | 1884.74      | 100-110 | 821.85       |
| 80-90 | 1303.62      | 90-100  | 981.44       |

## Candela Table

|        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|        | 0.00   | 22.50  | 45.00  | 67.50  | 90.00  | 112.50 | 135.00 | 157.50 | 180.00 | 202.50 | 225.00 | 247.50 | 270.00 | 292.50 | 315.00 | 337.50 | 360.00 |
| 0.00   | 2848.2 | 2848.2 | 2848.2 | 2848.2 | 2848.2 | 2848.2 | 2848.2 | 2848.2 | 2848.2 | 2848.2 | 2848.2 | 2848.2 | 2848.2 | 2848.2 | 2848.2 | 2848.2 | 2848.2 |
| 2.50   | 2868.8 | 2872.8 | 2876.4 | 2880.9 | 2883.1 | 2882.9 | 2885.7 | 2882.0 | 2910.6 | 2906.2 | 2902.5 | 2897.5 | 2895.6 | 2895.0 | 2893.5 | 2894.4 | 2868.8 |
| 5.00   | 2963.3 | 2969.5 | 2977.5 | 2983.5 | 2989.4 | 2994.5 | 2994.9 | 2991.1 | 3043.9 | 3035.2 | 3028.7 | 3023.1 | 3018.6 | 3014.3 | 3011.4 | 3013.2 | 2963.3 |
| 7.50   | 3115.9 | 3126.2 | 3135.9 | 3146.5 | 3156.4 | 3157.8 | 3162.0 | 3158.7 | 3229.0 | 3218.4 | 3210.4 | 3204.6 | 3198.1 | 3194.0 | 3184.0 | 3188.9 | 3115.9 |
| 10.00  | 3315.5 | 3328.1 | 3340.6 | 3357.4 | 3369.9 | 3371.8 | 3377.8 | 3369.5 | 3453.3 | 3439.3 | 3432.7 | 3424.4 | 3414.6 | 3407.3 | 3397.7 | 3402.8 | 3315.5 |
| 12.50  | 3556.8 | 3568.6 | 3590.8 | 3608.2 | 3625.4 | 3623.6 | 3634.5 | 3619.5 | 3713.8 | 3700.0 | 3693.4 | 3681.3 | 3669.6 | 3659.5 | 3649.7 | 3650.8 | 3556.8 |
| 15.00  | 3834.6 | 3849.9 | 3875.2 | 3893.9 | 3911.8 | 3912.9 | 3920.4 | 3908.6 | 4007.5 | 3994.0 | 3987.0 | 3975.5 | 3961.7 | 3943.8 | 3935.9 | 3936.6 | 3834.6 |
| 17.50  | 4153.1 | 4174.7 | 4203.5 | 4227.5 | 4239.8 | 4235.3 | 4242.5 | 4233.1 | 4349.8 | 4339.3 | 4337.9 | 4324.2 | 4298.8 | 4281.4 | 4270.5 | 4275.1 | 4153.1 |
| 20.00  | 4528.3 | 4551.9 | 4578.3 | 4593.9 | 4609.4 | 4605.8 | 4607.6 | 4593.4 | 4714.7 | 4704.3 | 4697.5 | 4678.5 | 4653.1 | 4639.1 | 4637.4 | 4636.3 | 4528.3 |
| 22.50  | 4848.6 | 4872.1 | 4899.9 | 4905.5 | 4909.9 | 4912.1 | 4921.3 | 4910.5 | 4987.8 | 4980.5 | 4973.0 | 4951.8 | 4940.4 | 4935.1 | 4934.6 | 4934.6 | 4848.6 |
| 25.00  | 5060.6 | 5085.4 | 5111.4 | 5124.6 | 5132.8 | 5137.3 | 5132.0 | 5127.5 | 5167.4 | 5165.1 | 5151.6 | 5132.8 | 5138.4 | 5140.6 | 5135.9 | 5134.6 | 5060.6 |
| 27.50  | 5214.4 | 5233.7 | 5266.6 | 5285.1 | 5291.0 | 5281.7 | 5275.7 | 5270.8 | 5279.5 | 5285.2 | 5271.0 | 5252.4 | 5261.8 | 5278.3 | 5270.7 | 5275.0 | 5214.4 |
| 30.00  | 5308.6 | 5323.6 | 5356.7 | 5369.2 | 5361.9 | 5344.7 | 5337.3 | 5340.2 | 5329.8 | 5337.2 | 5323.2 | 5296.5 | 5307.5 | 5323.0 | 5328.0 | 5328.9 | 5308.6 |
| 32.50  | 5319.6 | 5340.0 | 5370.6 | 5377.9 | 5369.9 | 5344.0 | 5323.5 | 5321.0 | 5276.2 | 5282.5 | 5272.7 | 5258.2 | 5268.3 | 5291.3 | 5297.4 | 5295.0 | 5319.6 |
| 35.00  | 5191.2 | 5219.9 | 5251.9 | 5255.5 | 5234.0 | 5197.5 | 5166.8 | 5161.2 | 5068.5 | 5078.1 | 5074.6 | 5073.8 | 5091.4 | 5116.3 | 5129.7 | 5123.9 | 5191.2 |
| 37.50  | 4928.7 | 4942.6 | 4979.4 | 4978.1 | 4952.1 | 4902.8 | 4877.4 | 4863.1 | 4752.3 | 4764.7 | 4762.3 | 4765.9 | 4788.0 | 4810.9 | 4832.3 | 4827.2 | 4928.7 |
| 40.00  | 4587.7 | 4606.2 | 4640.9 | 4635.1 | 4599.5 | 4555.9 | 4537.6 | 4528.8 | 4404.0 | 4411.4 | 4416.4 | 4427.7 | 4444.3 | 4465.4 | 4491.6 | 4483.7 | 4587.7 |
| 42.50  | 4251.4 | 4267.6 | 4297.7 | 4291.2 | 4253.7 | 4224.9 | 4199.5 | 4197.8 | 4078.3 | 4085.5 | 4087.4 | 4098.8 | 4110.3 | 4132.3 | 4153.9 | 4152.5 | 4251.4 |
| 45.00  | 3953.5 | 3967.3 | 3987.5 | 3984.7 | 3939.7 | 3916.6 | 3904.3 | 3902.7 | 3799.1 | 3799.6 | 3803.9 | 3813.8 | 3819.2 | 3841.7 | 3863.4 | 3864.6 | 3953.5 |
| 47.50  | 3705.5 | 3713.9 | 3729.2 | 3719.4 | 3685.8 | 3670.0 | 3662.0 | 3656.6 | 3570.6 | 3566.4 | 3568.1 | 3575.1 | 3582.2 | 3601.4 | 3624.9 | 3627.0 | 3705.5 |
| 50.00  | 3510.0 | 3516.6 | 3519.2 | 3509.2 | 3480.9 | 3470.1 | 3473.7 | 3473.9 | 3401.1 | 3390.2 | 3391.9 | 3396.0 | 3404.2 | 3424.7 | 3446.8 | 3448.8 | 3510.0 |
| 52.50  | 3364.5 | 3364.7 | 3359.6 | 3353.2 | 3326.7 | 3323.0 | 3331.2 | 3334.7 | 3267.6 | 3255.4 | 3259.3 | 3256.1 | 3264.5 | 3288.3 | 3305.8 | 3310.9 | 3364.5 |
| 55.00  | 3253.3 | 3246.3 | 3236.4 | 3233.9 | 3209.7 | 3209.8 | 3217.7 | 3222.5 | 3162.1 | 3148.0 | 3155.5 | 3147.1 | 3155.3 | 3186.7 | 3198.1 | 3199.4 | 3253.3 |
| 57.50  | 3162.4 | 3147.3 | 3135.1 | 3131.8 | 3119.8 | 3120.9 | 3118.6 | 3130.1 | 3069.4 | 3055.5 | 3063.5 | 3054.2 | 3060.9 | 3099.3 | 3106.0 | 3096.4 | 3162.4 |
| 60.00  | 3066.0 | 3043.7 | 3028.0 | 3024.8 | 3029.1 | 3026.1 | 3015.8 | 3030.8 | 2968.4 | 2954.1 | 2959.9 | 2950.7 | 2953.4 | 2997.3 | 2997.9 | 2985.2 | 3066.0 |
| 62.50  | 2941.8 | 2915.5 | 2894.4 | 2892.3 | 2903.0 | 2900.8 | 2882.5 | 2903.6 | 2827.4 | 2817.4 | 2813.4 | 2809.7 | 2808.7 | 2852.8 | 2848.2 | 2842.7 | 2941.8 |
| 65.00  | 2763.0 | 2734.9 | 2713.2 | 2715.6 | 2723.2 | 2715.6 | 2706.2 | 2721.4 | 2632.0 | 2625.4 | 2612.2 | 2612.3 | 2617.4 | 2653.3 | 2650.7 | 2654.5 | 2763.0 |
| 67.50  | 2528.1 | 2506.2 | 2492.6 | 2493.4 | 2498.5 | 2486.2 | 2487.2 | 2483.2 | 2394.2 | 2389.7 | 2373.1 | 2375.5 | 2388.5 | 2409.7 | 2409.3 | 2421.8 | 2528.1 |
| 70.00  | 2271.3 | 2256.4 | 2251.1 | 2249.1 | 2254.8 | 2243.0 | 2247.0 | 2233.9 | 2156.1 | 2152.2 | 2131.7 | 2134.2 | 2151.8 | 2162.1 | 2162.0 | 2178.2 | 2271.3 |
| 72.50  | 2033.3 | 2026.8 | 2022.5 | 2025.4 | 2027.2 | 2024.2 | 2022.8 | 2012.0 | 1936.9 | 1934.8 | 1916.7 | 1918.4 | 1934.1 | 1935.2 | 1933.3 | 1953.7 | 2033.3 |
| 75.00  | 1820.4 | 1818.0 | 1816.8 | 1825.5 | 1823.8 | 1822.7 | 1822.7 | 1813.4 | 1743.2 | 1741.1 | 1727.4 | 1725.5 | 1738.0 | 1736.9 | 1736.1 | 1752.2 | 1820.4 |
| 77.50  | 1633.4 | 1633.1 | 1635.6 | 1645.0 | 1644.9 | 1643.3 | 1642.6 | 1631.3 | 1571.5 | 1566.3 | 1557.2 | 1556.9 | 1564.8 | 1560.6 | 1562.7 | 1571.2 | 1633.4 |
| 80.00  | 1470.0 | 1470.8 | 1474.7 | 1481.9 | 1486.2 | 1485.0 | 1481.6 | 1471.4 | 1421.7 | 1417.8 | 1411.3 | 1411.0 | 1415.9 | 1411.8 | 1412.2 | 1418.0 | 1470.0 |
| 82.50  | 1327.4 | 1330.9 | 1332.6 | 1339.7 | 1345.5 | 1348.2 | 1340.1 | 1332.3 | 1290.5 | 1286.5 | 1283.7 | 1281.8 | 1283.6 | 1279.4 | 1277.8 | 1282.7 | 1327.4 |
| 85.00  | 1206.1 | 1211.4 | 1211.4 | 1218.9 | 1224.1 | 1227.8 | 1222.9 | 1214.8 | 1177.9 | 1175.1 | 1173.5 | 1170.4 | 1169.5 | 1167.5 | 1165.3 | 1170.3 | 1206.1 |
| 87.50  | 1102.3 | 1107.3 | 1110.1 | 1116.2 | 1121.8 | 1124.4 | 1120.7 | 1113.2 | 1080.9 | 1078.3 | 1078.7 | 1074.9 | 1073.1 | 1072.0 | 1069.7 | 1071.5 | 1102.3 |
| 90.00  | 1015.1 | 1019.8 | 1024.4 | 1028.5 | 1035.5 | 1036.5 | 1033.6 | 1026.8 | 1002.0 | 999.8  | 999.5  | 995.7  | 994.6  | 993.2  | 991.6  | 991.4  | 1015.1 |
| 92.50  | 948.4  | 953.8  | 957.3  | 962.3  | 968.7  | 970.1  | 966.4  | 961.1  | 941.2  | 940.3  | 940.3  | 935.5  | 933.8  | 932.7  | 931.1  | 930.1  | 948.4  |
| 95.00  | 897.7  | 902.5  | 905.6  | 910.6  | 916.1  | 919.0  | 916.4  | 912.5  | 897.0  | 895.1  | 894.1  | 888.1  | 886.6  | 886.3  | 884.1  | 883.4  | 897.7  |
| 97.50  | 857.2  | 862.5  | 867.0  | 872.4  | 876.9  | 880.0  | 878.0  | 874.4  | 860.7  | 858.4  | 856.9  | 851.8  | 849.5  | 850.1  | 848.3  | 846.1  | 857.2  |
| 100.00 | 824.0  | 828.6  | 832.6  | 838.1  | 841.9  | 844.1  | 842.5  | 839.5  | 827.9  | 826.1  | 826.0  | 820.9  | 819.9  | 819.7  | 818.2  | 816.3  | 824.0  |
| 102.50 | 795.6  | 800.0  | 803.7  | 808.3  | 812.5  | 814.5  | 812.6  | 810.0  | 800.8  | 799.4  | 798.8  | 794.9  | 793.0  | 793.3  | 791.8  | 789.4  | 795.6  |
| 105.00 | 771.6  | 775.7  | 778.5  | 783.2  | 787.0  | 789.1  | 787.7  | 785.4  | 777.5  | 775.8  | 775.3  | 771.4  | 770.1  | 770.2  | 768.9  | 766.6  | 771.6  |
| 107.50 | 749.9  | 753.6  | 756.5  | 761.0  | 764.6  | 765.4  | 765.0  | 763.2  | 755.4  | 754.2  | 753.2  | 749.5  | 748.9  | 749.1  | 748.1  | 745.7  | 749.9  |
| 110.00 | 730.6  | 733.5  | 736.7  | 739.5  | 742.8  | 744.1  | 742.6  | 741.3  | 734.8  | 733.7  | 733.1  | 730.4  | 730.2  | 730.8  | 729.8  | 727.9  | 730.6  |
| 112.50 | 715.9  | 717.9  | 720.6  | 723.5  | 726.1  | 727.0  | 725.1  | 723.9  | 719.2  | 718.1  | 717.1  | 715.6  | 715.1  | 716.2  | 715.3  | 713.7  | 715.9  |
| 115.00 | 704.5  | 706.5  | 708.7  | 711.6  | 713.3  | 714.2  | 712.8  | 711.7  | 706.7  | 705.3  | 705.0  | 704.2  | 704.3  | 705.1  | 704.2  | 703.1  | 704.5  |
| 117.50 | 694.3  | 696.0  | 698.5  | 701.4  | 702.7  | 703.1  | 702.3  | 701.0  | 696.5  | 695.4  | 694.6  | 693.5  | 693.7  | 694.7  | 693.3  | 692.6  | 694.3  |

