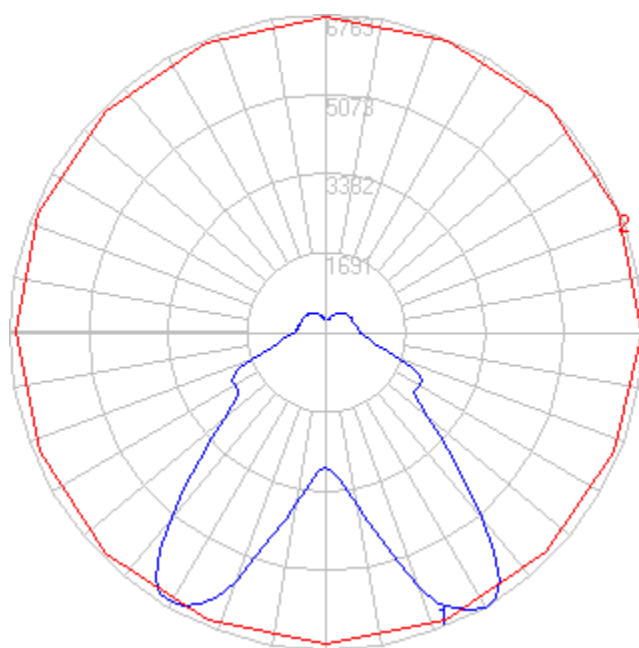




10163 US HWY 31 North, Charlevoix, MI 49720 231-547-6584

Test Report Number	06062
Date of Test	5/31/2017
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, S16 INTERFACE, AND AC FC WIDEBAY LENS
Lamp	HL200W-350L
Operating Orientation	PENDENT
Driver Type	INTERNAL
Test Time	90 MINUTES
Ambient Temperature (C)	25.4
Stabilization Time	72 MINUTES
Power Factor	.992
Power (W)	197.87
Voltage(V)	119.99
Current(A)	1.663
Notes	DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120Vac, 60Hz)
Luminous Flux	21672.02
Luminous Efficacy	109.53
Test Distance	22.25 FEET
Test Equipment	GONIOPHOTOMETER
LAB Test Method Reference	IESNA LM-79-08
Technician	CG
Spacing Criterion(0-180)	1.98
Spacing Criterion(90-270)	2.00
Spacing Criterion(diagonal)	1.72
Sample Width(mm)	
Sample Height/Depth(mm)	
Luminous Diameter/Length(mm)	
Luminous Width(mm)	
Luminous Height/Depth(mm)	



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		115	115	115	115		111	111	111	111		102	102	102		94	94	94	83
1		104	99	95	90		100	95	91	87		88	85	82		81	79	76	68
2		95	86	79	73		90	83	77	71		77	72	67		71	67	63	56
3		86	76	68	61		82	73	65	59		68	61	56		63	58	53	47
4		79	67	58	52		75	65	57	50		60	53	48		56	50	46	41
5		72	60	51	44		69	58	49	43		54	47	41		50	44	39	35
6		67	54	45	38		64	52	44	38		48	41	36		45	39	34	31
7		62	48	40	34		59	47	39	33		44	37	32		41	35	30	27
8		57	44	36	30		55	43	35	29		40	33	28		37	31	27	24
9		53	40	32	27		51	39	31	26		37	30	25		34	28	24	21
10		50	37	29	24		48	36	28	23		34	27	23		32	26	22	19

Zonal Lumen Summary

	Summary Zonal Lumens	Zonal Lumens-% Lamp	Zonal Lumens-% Fixture
0-30	4552.56		21.01%
0-40	8589.29		39.63%
0-60	13690.66		63.17%
0-90	18016.67		83.13%
90-110	1376.41		6.35%
90-130	2495.22		11.51%
90-150	3334.71		15.39%
90-180	3655.35		16.87%

	Zonal Lumens		Zonal Lumens
0-10	297.19	170-180	25.08
10-20	1280.28	160-170	98.26
20-30	2975.09	150-160	197.30
30-40	4036.73	140-150	313.41
40-50	2993.79	130-140	526.08
50-60	2107.58	120-130	526.08
60-70	2186.57	110-120	592.73
70-80	1276.68	100-110	653.25
80-90	862.76	90-100	723.16

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	2876.4	2876.4	2876.4	2876.4	2876.4	2876.4	2876.4	2876.4	2876.4	2876.4	2876.4	2876.4	2876.4	2876.4	2876.4	2876.4	2876.4
2.50	2961.3	2954.3	2949.7	2931.5	2915.6	2900.2	2886.0	2877.2	2911.4	2914.2	2926.2	2947.3	2972.1	2996.4	3017.6	3029.2	2961.3
5.00	3161.9	3154.9	3136.6	3107.5	3073.1	3045.3	3014.0	2999.1	3078.9	3083.1	3106.8	3139.4	3180.4	3216.3	3251.3	3271.2	3161.9
7.50	3442.8	3435.6	3407.5	3371.7	3328.1	3281.6	3238.3	3222.9	3340.1	3351.0	3375.5	3420.0	3465.8	3510.5	3553.8	3581.1	3442.8
10.00	3776.9	3770.0	3736.3	3694.3	3642.8	3585.3	3545.9	3517.5	3658.4	3670.9	3706.5	3749.3	3796.4	3853.8	3897.1	3930.8	3776.9
12.50	4163.1	4152.0	4122.4	4062.3	4006.7	3955.8	3900.4	3870.6	4026.8	4046.6	4077.7	4122.9	4173.0	4230.8	4288.5	4319.6	4163.1
15.00	4600.0	4600.0	4552.8	4484.4	4428.5	4374.3	4296.9	4276.1	4436.3	4454.8	4491.2	4536.0	4593.1	4659.4	4742.4	4781.3	4600.0
17.50	5175.7	5167.4	5103.7	5025.1	4951.8	4869.3	4771.4	4739.6	4944.7	4977.6	5005.6	5059.9	5128.7	5221.0	5347.4	5412.1	5175.7
20.00	5833.9	5817.7	5770.5	5704.2	5609.3	5493.8	5407.1	5359.8	5599.3	5631.1	5637.3	5696.1	5766.2	5857.8	5939.8	5985.1	5833.9
22.50	6249.2	6250.2	6242.7	6200.6	6155.5	6054.5	5991.1	5973.1	6104.4	6117.7	6125.0	6170.7	6200.5	6263.8	6286.2	6299.3	6249.2
25.00	6505.9	6508.0	6488.2	6444.5	6411.6	6366.1	6338.1	6330.7	6388.9	6368.7	6392.5	6399.1	6397.5	6457.9	6441.8	6491.2	6505.9
27.50	6665.9	6664.2	6659.6	6599.7	6576.9	6555.3	6537.7	6535.1	6564.9	6538.6	6558.3	6547.8	6531.9	6569.8	6574.6	6614.8	6665.9
30.00	6727.6	6732.2	6763.4	6739.2	6714.3	6688.8	6681.6	6677.1	6640.8	6618.3	6642.4	6643.6	6632.9	6639.8	6624.0	6649.1	6727.6
32.50	6697.6	6711.2	6725.9	6756.2	6746.4	6751.9	6752.1	6723.7	6652.6	6622.8	6623.6	6629.3	6619.0	6580.4	6527.7	6542.4	6697.6
35.00	6415.9	6432.0	6476.9	6527.1	6564.6	6636.7	6655.7	6656.2	6512.6	6453.4	6379.1	6351.7	6310.1	6235.8	6148.4	6102.5	6415.9
37.50	5808.1	5835.4	5882.6	5951.9	6058.9	6181.6	6253.6	6251.5	5982.2	5919.3	5827.5	5752.5	5695.9	5605.2	5508.8	5461.4	5808.1
40.00	5133.8	5148.2	5174.5	5262.6	5360.8	5491.7	5578.6	5590.7	5292.6	5247.3	5158.9	5066.7	5001.0	4903.0	4826.0	4789.1	5133.8
42.50	4456.0	4477.2	4466.3	4458.6	4624.9	4769.4	4859.4	4871.0	4606.0	4564.3	4484.7	4377.0	4325.4	4236.1	4182.8	4156.4	4456.0
45.00	3831.2	3841.0	3829.8	3895.1	3966.6	4100.1	4200.4	4210.2	3975.5	3946.4	3853.3	3763.8	3714.6	3640.7	3602.2	3552.9	3831.2
47.50	3272.2	3271.7	3263.7	3319.6	3404.8	3526.0	3586.5	3613.4	3397.9	3358.3	3293.4	3236.6	3203.4	3124.6	3093.0	3055.6	3272.2
50.00	2844.1	2843.1	2818.8	2853.9	2929.0	3008.7	3061.1	3088.1	2923.9	2910.6	2867.6	2813.9	2791.5	2739.6	2705.9	2687.4	2844.1
52.50	2543.2	2544.0	2491.8	2514.9	2574.6	2616.9	2666.2	2690.3	2587.7	2569.6	2540.7	2499.4	2487.4	2462.0	2441.8	2440.9	2543.2
55.00	2374.8	2371.2	2295.4	2299.3	2349.9	2367.7	2403.6	2431.4	2390.7	2352.6	2325.4	2316.5	2314.6	2309.2	2330.1	2335.7	2374.8
57.50	2328.8	2321.1	2255.1	2228.9	2245.1	2275.9	2273.2	2308.6	2330.3	2280.4	2243.2	2291.1	2288.1	2259.6	2333.7	2324.9	2328.8
60.00	2335.6	2319.6	2289.1	2242.6	2230.2	2277.1	2274.7	2303.0	2355.1	2297.9	2253.2	2336.4	2311.1	2268.9	2379.6	2348.9	2335.6
62.50	2312.7	2293.1	2297.9	2270.3	2230.7	2313.3	2317.5	2328.6	2363.7	2313.8	2261.4	2358.7	2316.2	2256.1	2353.0	2301.1	2312.7
65.00	2163.9	2157.3	2194.1	2199.9	2159.7	2256.2	2287.0	2283.8	2260.8	2239.8	2191.5	2248.2	2205.6	2133.0	2177.7	2111.4	2163.9
67.50	1904.7	1903.1	1951.5	1967.4	1974.5	2040.7	2104.3	2101.4	2020.5	2017.3	1988.9	1982.0	1945.7	1894.6	1888.9	1832.9	1904.7
70.00	1622.8	1619.7	1647.2	1668.5	1712.1	1734.9	1804.9	1830.3	1709.6	1716.9	1702.7	1663.7	1629.6	1617.5	1584.0	1545.5	1622.8
72.50	1383.8	1376.5	1376.0	1405.1	1450.9	1447.8	1513.8	1547.3	1426.7	1440.0	1430.1	1388.6	1362.5	1374.1	1333.6	1312.2	1383.8
75.00	1194.7	1184.6	1181.5	1205.3	1236.1	1235.1	1283.4	1311.3	1212.1	1228.0	1221.8	1187.8	1169.0	1181.1	1148.5	1138.7	1194.7
77.50	1054.3	1045.6	1041.7	1059.3	1081.7	1081.8	1114.8	1136.5	1061.0	1071.7	1067.5	1044.0	1032.0	1037.7	1015.7	1012.8	1054.3
80.00	946.4	940.7	938.1	952.3	966.2	969.9	987.5	1007.7	950.9	958.1	954.9	936.9	930.3	928.9	914.7	913.0	946.4
82.50	861.2	856.8	853.6	867.7	874.7	878.6	891.6	904.3	862.4	868.6	865.5	851.3	847.8	845.3	834.9	832.9	861.2
85.00	789.7	786.8	786.1	796.4	801.8	805.5	815.6	823.7	790.7	794.2	791.7	782.5	779.3	775.2	769.2	765.5	789.7
87.50	731.9	728.3	730.5	737.0	742.1	744.8	753.4	757.5	731.3	733.2	731.2	725.0	721.8	718.1	715.7	714.1	731.9
90.00	699.2	697.7	696.4	695.8	695.9	697.9	701.9	704.9	687.0	685.9	684.2	682.2	682.1	681.8	683.5	684.6	699.2
92.50	738.9	742.3	730.6	709.1	682.8	668.2	667.9	668.9	658.9	658.2	656.4	657.0	665.9	678.0	688.0	698.3	738.9
95.00	691.2	689.8	684.2	674.4	665.0	657.9	651.1	647.6	640.6	640.4	638.5	639.9	645.0	656.2	669.3	686.0	691.2
97.50	701.0	702.7	687.7	668.6	653.5	640.5	634.0	632.5	627.8	627.8	626.3	627.4	631.7	642.4	657.8	676.5	701.0
100.00	675.7	677.9	666.3	652.1	638.7	627.0	621.7	620.5	617.5	617.4	616.6	617.6	621.7	630.7	644.1	658.0	675.7
102.50	658.1	659.5	650.5	638.4	625.7	615.6	611.9	611.0	609.0	608.6	608.0	609.3	612.3	619.9	632.2	644.5	658.1
105.00	644.1	645.1	636.9	625.3	613.8	606.7	603.8	603.0	601.6	601.5	600.6	601.8	605.3	610.0	620.5	632.4	644.1
107.50	626.3	627.4	622.2	612.2	603.9	600.0	597.9	596.9	595.9	595.3	594.6	595.4	599.0	603.1	607.0	612.9	626.3
110.00	609.3	609.2	605.7	601.3	597.7	594.9	592.9	591.7	591.4	591.0	590.5	592.0	595.2	598.9	602.9	606.5	609.3
112.50	606.4	606.4	602.9	599.0	595.7	592.6	590.3	589.1	589.8	588.6	588.4	589.8	593.4	598.1	601.9	605.6	606.4
115.00	606.3	606.2	603.1	599.6	596.4	593.6	591.1	589.9	589.7	589.1	588.6	589.8	593.6	597.4	601.7	605.0	606.3
117.50	606.2	605.7	602.8	599.3	596.1	593.5	591.3	590.2	589.0	588.1	587.6	589.0	592.3	596.3	600.3	603.9	606.2

120.00	604.2	603.9	601.2	597.9	594.6	592.4	590.1	589.2	587.0	585.9	585.8	586.5	589.6	593.6	597.5	600.9	604.2
122.50	600.7	600.2	598.1	594.4	591.8	589.7	587.6	587.0	583.8	583.0	582.3	583.3	586.4	590.1	593.2	596.6	600.7
125.00	595.7	595.4	593.3	590.3	587.6	585.7	583.8	582.7	579.5	578.8	578.0	578.9	581.4	584.7	588.0	590.8	595.7
127.50	589.4	589.2	587.3	584.6	582.1	580.5	578.8	577.9	573.5	572.6	572.1	572.6	574.8	578.0	580.5	583.6	589.4
130.00	582.0	581.7	580.1	577.3	575.6	573.6	572.0	571.5	566.3	565.8	564.9	565.2	567.0	569.9	572.2	575.3	582.0
132.50	572.9	572.9	571.4	568.9	567.5	566.0	564.6	564.2	557.7	557.1	556.4	556.2	558.3	560.6	563.0	565.6	572.9
135.00	562.3	562.5	560.8	559.0	557.8	556.4	555.2	555.0	547.2	546.6	546.0	545.6	547.1	549.5	551.7	553.9	562.3
137.50	550.2	550.4	549.2	547.5	546.1	545.4	544.4	544.2	536.0	535.5	534.3	534.1	535.5	537.1	538.8	540.9	550.2
140.00	536.9	536.9	536.2	534.4	533.4	533.0	532.3	532.0	523.5	523.0	521.7	521.3	522.3	523.9	524.9	526.4	536.9
142.50	522.3	522.3	521.0	520.0	519.1	519.0	518.2	517.9	509.5	509.0	507.9	507.1	508.2	509.2	510.0	510.5	522.3
145.00	505.6	506.0	504.6	503.7	503.4	502.9	502.8	502.6	494.5	494.1	492.8	492.0	492.3	493.5	494.1	493.4	505.6
147.50	487.6	488.1	487.4	486.4	486.4	485.9	486.5	486.3	478.7	478.0	476.6	476.1	476.1	476.4	476.7	475.4	487.6
150.00	468.5	468.8	468.9	468.3	468.1	467.1	468.8	468.8	462.2	461.4	459.8	459.3	458.8	459.2	459.1	456.8	468.5
152.50	448.2	448.6	448.8	448.5	448.2	447.2	449.8	450.2	445.0	444.5	442.8	442.1	441.4	441.4	440.9	438.4	448.2
155.00	426.6	427.4	427.2	427.6	427.0	426.4	429.9	430.7	427.7	427.0	426.0	424.2	424.1	423.3	422.7	419.8	426.6
157.50	404.3	405.4	405.9	407.3	405.7	405.0	409.7	410.5	409.5	409.2	408.1	406.7	405.7	405.1	403.2	401.1	404.3
160.00	383.5	384.4	385.9	386.8	385.3	385.1	389.3	391.0	391.6	390.6	389.7	388.6	387.5	386.0	383.5	382.4	383.5
162.50	363.4	364.4	365.9	367.2	366.1	365.8	368.9	371.9	373.2	372.6	372.2	370.8	369.4	367.0	364.1	363.2	363.4
165.00	342.3	343.3	344.9	345.9	345.6	346.0	348.3	352.1	353.5	352.7	352.3	351.4	349.6	347.7	342.4	342.3	342.3
167.50	318.6	318.6	322.7	323.2	323.1	323.2	327.7	330.8	330.8	330.2	329.4	329.8	328.3	325.5	320.0	319.3	318.6
170.00	293.0	294.9	298.5	299.0	298.9	300.4	305.5	307.2	306.1	305.6	306.5	305.6	304.3	301.6	299.5	293.8	293.0
172.50	267.0	269.1	272.6	274.0	274.6	276.0	281.1	283.1	280.6	280.5	281.7	281.0	279.9	276.5	274.4	268.7	267.0
175.00	255.6	257.8	261.0	261.9	262.5	263.7	266.2	265.1	266.7	265.3	267.3	269.3	269.7	268.2	267.8	264.8	255.6
177.50	262.6	263.5	266.7	266.7	267.2	270.6	270.6	270.1	266.1	265.3	269.6	268.9	272.4	271.3	270.7	269.5	262.6
180.00	268.8	268.8	268.8	268.8	268.8	268.8	268.8	268.8	268.8	268.8	268.8	268.8	268.8	268.8	268.8	268.8	268.8