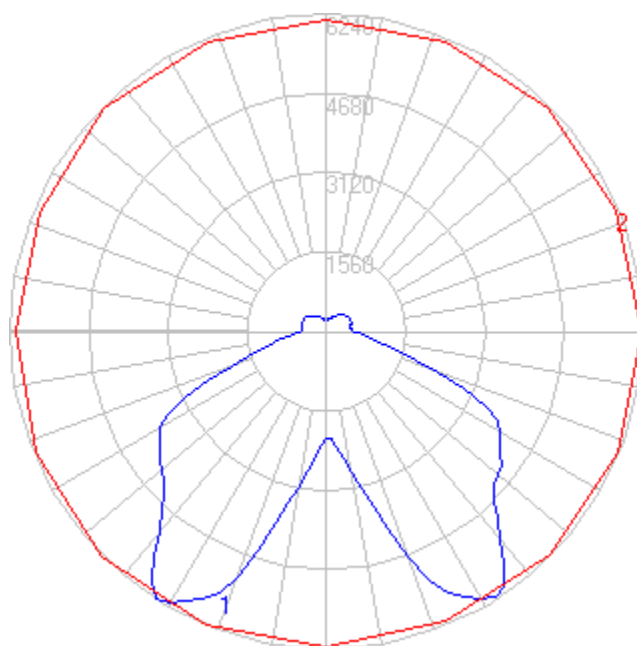




10163 US HWY 31 North, Charlevoix, MI 49720 231-547-6584

Test Report Number	06067
Date of Test	6/1/2017
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, MOONGLOW S16, AND AC FC WIDEBAY LENS
Lamp	HL200W-350L
Operating Orientation	PENDENT
Driver Type	INTERNAL
Test Time	75 MINUTES
Ambient Temperature (C)	24.7
Stabilization Time	57 MINUTES
Power Factor	.992
Power (W)	198.06
Voltage(V)	120.0
Current(A)	1.6643
Notes	DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120Vac, 60Hz)
Luminous Flux	23316.29
Luminous Efficacy	117.72
Test Distance	22.25 FEET
Test Equipment	GONIOPHOTOMETER
LAB Test Method Reference	IESNA LM-79-08
Technician	CG
Spacing Criterion(0-180)	2.52
Spacing Criterion(90-270)	2.50
Spacing Criterion(diagonal)	2.36
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	50	30	10	0
0	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88
1	105	100	95	91	101	96	92	88	90	86	83	84	81	78	78	76	74	71
2	94	86	78	72	91	83	76	70	77	72	67	72	67	64	67	64	60	57
3	85	74	66	59	82	72	64	57	67	60	55	62	57	52	58	54	50	47
4	78	65	56	49	74	63	54	48	59	51	46	55	49	44	51	46	42	39
5	71	57	48	41	68	55	47	40	52	44	39	49	42	37	45	40	36	33
6	65	51	42	35	62	49	41	34	46	39	33	43	37	32	41	35	31	28
7	60	46	37	30	57	44	36	30	42	34	29	39	32	28	37	31	27	24
8	55	41	32	26	53	40	32	26	38	30	25	35	29	24	33	28	23	21
9	51	37	29	23	49	36	28	23	34	27	22	32	26	21	30	25	21	19
10	48	34	26	21	46	33	26	20	31	24	20	30	23	19	28	22	18	16

Zonal Lumen Summary

	Summary Zonal Lumens	Zonal Lumens-% Lamp	Zonal Lumens-% Fixture
0-30	3917.56		16.80%
0-40	7713.82		33.08%
0-60	14893.94		63.88%
0-90	20363.71		87.34%
90-110	1055.13		4.53%
90-130	2020.66		8.67%
90-150	2710.24		11.62%
90-180	2952.58		12.66%

	Zonal Lumens		Zonal Lumens
0-10	224.63	170-180	20.86
10-20	1054.50	160-170	75.51
20-30	2638.43	150-160	145.97
30-40	3796.26	140-150	239.25
40-50	3534.42	130-140	450.33
50-60	3645.70	120-130	450.33
60-70	3285.81	110-120	515.20
70-80	1450.79	100-110	525.70
80-90	733.17	90-100	529.43

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	2110.3	2110.3	2110.3	2110.3	2110.3	2110.3	2110.3	2110.3	2110.3	2110.3	2110.3	2110.3	2110.3	2110.3	2110.3	2110.3	2110.3
2.50	2142.9	2133.1	2123.6	2117.3	2113.7	2118.0	2121.4	2129.8	2206.0	2227.1	2234.6	2250.2	2252.1	2246.7	2242.9	2234.3	2142.9
5.00	2311.6	2291.2	2274.6	2259.3	2253.1	2257.4	2266.3	2278.7	2418.4	2443.8	2463.2	2479.8	2479.7	2477.9	2473.2	2458.0	2311.6
7.50	2567.1	2538.9	2527.3	2499.6	2485.5	2490.6	2503.3	2520.2	2706.3	2734.7	2758.2	2773.6	2778.8	2776.9	2775.7	2755.2	2567.1
10.00	2877.1	2845.6	2834.6	2796.0	2781.8	2793.2	2797.7	2821.6	3029.7	3068.2	3087.6	3116.6	3119.5	3119.8	3121.4	3093.9	2877.1
12.50	3234.8	3208.5	3182.8	3151.3	3125.4	3135.5	3133.4	3165.3	3395.8	3443.8	3466.5	3498.2	3502.6	3506.2	3505.1	3476.1	3234.8
15.00	3645.6	3604.6	3570.9	3538.2	3514.0	3517.6	3521.9	3550.2	3816.7	3864.2	3906.7	3937.0	3935.4	3938.5	3940.2	3897.4	3645.6
17.50	4109.1	4068.9	4053.8	4007.9	3971.6	3983.7	4002.3	4023.0	4389.6	4451.8	4502.1	4532.9	4541.4	4521.0	4509.2	4459.2	4109.1
20.00	4758.9	4743.2	4718.0	4655.8	4599.2	4630.1	4628.9	4691.3	5048.1	5082.8	5126.4	5143.0	5165.5	5150.6	5111.3	5083.5	4758.9
22.50	5346.5	5318.8	5299.1	5266.9	5233.8	5235.8	5217.1	5251.0	5452.3	5495.1	5541.2	5533.1	5544.4	5545.3	5529.2	5516.4	5346.5
25.00	5697.6	5648.3	5649.8	5623.4	5599.8	5585.7	5612.1	5575.9	5740.6	5772.5	5795.5	5780.5	5767.5	5771.3	5771.4	5785.9	5697.6
27.50	5954.2	5887.9	5874.4	5840.0	5808.9	5818.6	5845.1	5826.5	5928.6	5961.5	5991.8	5993.7	5978.9	5962.1	5969.2	5996.1	5954.2
30.00	6099.2	6053.3	6047.9	6012.2	5982.6	6008.4	6033.4	6001.6	6051.8	6122.8	6156.8	6168.6	6166.6	6133.7	6125.4	6154.6	6099.2
32.50	6229.3	6178.5	6183.7	6157.3	6114.4	6144.3	6181.6	6124.3	6138.4	6195.3	6240.2	6222.3	6188.6	6171.2	6198.5	6220.6	6229.3
35.00	6145.4	6112.7	6120.5	6110.0	6094.8	6137.7	6167.9	6089.9	5917.5	5953.9	5995.3	5991.1	5932.3	5920.5	5949.2	5980.9	6145.4
37.50	5745.6	5749.8	5770.9	5796.6	5805.6	5830.9	5846.7	5751.2	5462.5	5498.9	5563.9	5535.2	5491.1	5479.4	5494.1	5527.3	5745.6
40.00	5288.1	5307.6	5343.6	5361.2	5361.8	5376.5	5403.8	5303.7	5049.2	5090.8	5135.9	5090.0	5040.8	5036.5	5061.9	5097.5	5288.1
42.50	4921.6	4928.4	4969.1	4970.4	4962.0	4968.8	4975.6	4903.1	4722.0	4762.4	4788.6	4742.1	4674.0	4660.6	4716.1	4754.0	4921.6
45.00	4633.9	4642.4	4685.1	4670.1	4652.4	4645.8	4660.1	4598.1	4484.3	4522.4	4542.1	4483.7	4414.6	4408.4	4456.2	4495.8	4633.9
47.50	4460.4	4442.0	4476.2	4468.1	4432.1	4410.8	4431.0	4378.5	4317.2	4350.4	4365.5	4316.8	4263.1	4275.1	4310.9	4354.4	4460.4
50.00	4388.1	4382.6	4388.7	4363.0	4324.7	4315.3	4311.4	4283.9	4258.1	4281.1	4261.5	4209.7	4160.6	4190.9	4233.6	4285.2	4388.1
52.50	4309.9	4323.9	4333.9	4303.5	4271.6	4257.7	4252.7	4233.3	4160.9	4163.5	4130.9	4059.6	4014.0	4052.5	4105.6	4149.2	4309.9
55.00	4165.8	4183.4	4183.1	4148.7	4132.4	4123.5	4118.1	4116.0	4053.9	4046.7	3995.7	3920.0	3873.5	3898.5	3967.2	4001.3	4165.8
57.50	4050.1	4070.6	4059.9	4013.0	4029.6	4021.8	3987.7	4028.7	3986.9	3946.6	3878.0	3820.5	3780.0	3769.4	3846.0	3898.9	4050.1
60.00	3944.8	3979.2	3948.0	3879.0	3905.2	3923.3	3890.6	3942.5	3902.7	3835.1	3770.8	3726.7	3695.2	3647.1	3728.3	3804.7	3944.8
62.50	3778.4	3829.1	3791.4	3728.4	3762.9	3783.8	3736.0	3797.0	3683.4	3590.0	3541.1	3514.8	3503.7	3447.7	3494.4	3616.5	3778.4
65.00	3444.6	3502.1	3479.6	3454.2	3508.6	3509.2	3436.9	3492.6	3251.3	3144.7	3098.6	3085.8	3084.8	3054.1	3062.6	3198.3	3444.6
67.50	2896.9	2970.2	2941.3	2977.1	3001.8	3010.3	2946.3	2985.8	2646.1	2554.8	2522.1	2493.8	2482.9	2496.9	2490.3	2593.9	2896.9
70.00	2256.7	2322.8	2317.4	2365.2	2361.5	2365.7	2351.1	2362.0	2062.7	2007.7	2002.0	1956.3	1933.8	1961.6	1948.3	2011.6	2256.7
72.50	1774.4	1817.9	1833.0	1852.4	1852.1	1838.8	1851.9	1855.1	1623.3	1602.1	1607.9	1554.5	1539.4	1568.4	1557.5	1600.8	1774.4
75.00	1425.7	1439.5	1459.3	1464.3	1476.6	1449.7	1467.4	1462.4	1301.2	1292.3	1296.5	1263.1	1253.1	1275.0	1264.8	1294.8	1425.7
77.50	1157.8	1160.9	1174.9	1177.2	1184.6	1166.0	1179.7	1170.2	1057.9	1057.6	1057.1	1039.7	1035.0	1047.9	1040.4	1060.3	1157.8
80.00	954.0	953.1	964.2	965.6	969.6	957.0	968.3	957.9	882.9	883.1	883.0	874.4	871.6	876.5	873.1	883.6	954.0
82.50	803.0	802.2	814.0	809.8	815.6	807.8	814.5	806.7	750.3	753.2	750.7	744.2	744.4	746.0	744.6	750.2	803.0
85.00	692.2	688.9	698.5	695.0	699.0	692.0	695.6	690.8	648.5	651.9	648.0	643.0	646.8	647.5	646.1	648.3	692.2
87.50	605.4	602.8	607.0	605.1	607.0	602.3	604.5	601.3	570.0	572.4	568.7	567.0	569.2	570.8	570.0	571.0	605.4
90.00	541.4	539.3	540.1	538.9	538.0	535.9	536.7	535.2	517.8	519.4	517.1	516.4	517.9	518.1	518.4	519.4	541.4
92.50	505.5	503.5	502.7	501.8	501.9	500.7	500.7	500.8	493.2	494.1	492.0	491.8	492.0	492.2	492.1	493.8	505.5
95.00	490.9	488.4	487.5	486.9	487.6	487.8	487.1	487.4	483.3	483.5	481.8	480.9	480.6	481.0	480.8	483.2	490.9
97.50	486.7	484.2	483.0	484.4	485.5	486.1	484.9	484.7	484.2	483.7	481.4	480.2	479.5	479.4	479.4	481.7	486.7
100.00	488.7	485.6	485.5	487.0	489.5	490.3	488.6	488.0	489.4	488.1	484.8	483.7	482.2	482.1	482.2	484.9	488.7
102.50	491.6	488.8	489.1	492.2	495.0	496.1	494.2	492.9	494.2	492.5	488.9	487.1	485.5	485.8	485.7	488.6	491.6
105.00	497.2	494.1	495.3	499.2	503.0	503.8	501.6	500.2	501.3	499.1	495.1	492.9	490.8	490.8	491.4	493.9	497.2
107.50	503.1	500.7	503.0	508.6	512.6	513.2	510.1	508.8	509.2	505.8	501.1	498.4	495.8	495.6	496.1	499.0	503.1
110.00	507.5	505.9	510.0	516.2	520.3	521.0	517.5	516.7	517.3	512.6	506.7	503.4	501.1	500.5	501.0	503.9	507.5
112.50	509.9	511.0	515.9	523.1	527.1	526.9	524.4	523.2	523.6	517.8	511.0	507.0	505.2	504.4	504.8	508.1	509.9
115.00	512.7	514.7	520.8	529.0	533.2	531.9	529.3	528.8	527.6	521.7	513.9	509.8	508.1	507.1	507.6	511.2	512.7
117.50	514.4	517.8	524.5	532.9	537.6	535.4	532.3	531.5	527.1	522.1	515.7	510.9	509.6	509.1	509.7	512.1	514.4

120.00	512.9	517.4	523.7	531.6	536.2	535.3	531.2	528.8	522.1	517.9	513.4	509.1	507.1	506.9	507.6	508.7	512.9
122.50	507.0	512.1	517.4	524.4	528.7	528.4	525.2	521.4	514.1	511.0	506.8	502.9	500.0	500.1	501.1	501.9	507.0
125.00	497.3	502.7	507.9	514.0	518.3	517.9	515.2	511.3	502.9	500.5	496.7	492.3	489.1	489.5	490.6	491.1	497.3
127.50	485.5	490.8	495.1	501.0	505.9	505.5	502.8	499.1	489.2	487.3	484.1	480.3	476.8	477.6	477.2	478.4	485.5
130.00	472.8	477.1	480.9	486.5	491.6	491.8	489.0	485.5	474.7	473.7	470.9	467.6	464.0	464.8	464.2	464.5	472.8
132.50	459.1	462.5	466.5	471.6	476.5	477.2	475.4	471.2	460.9	459.4	456.7	453.9	450.0	450.2	450.0	450.2	459.1
135.00	443.8	446.6	450.9	456.0	460.4	461.5	459.8	455.7	445.4	443.8	440.1	437.3	433.7	433.2	433.6	434.2	443.8
137.50	427.8	430.2	434.7	439.9	443.7	445.0	443.1	439.7	429.6	427.6	423.4	421.0	417.5	417.1	417.3	418.1	427.8
140.00	411.8	414.2	418.7	423.6	427.6	429.1	426.6	423.7	413.3	411.4	407.0	404.3	401.7	400.6	400.8	401.7	411.8
142.50	396.0	398.4	403.0	408.0	411.5	412.9	410.6	407.1	397.2	395.3	391.2	388.4	386.1	384.9	384.9	385.3	396.0
145.00	379.9	382.6	386.6	391.1	394.7	395.6	394.2	390.8	380.6	378.6	374.6	372.3	369.9	368.7	368.0	368.3	379.9
147.50	363.0	365.5	369.4	373.2	375.8	377.1	376.6	373.1	363.5	361.8	357.6	355.1	352.9	351.9	351.4	350.8	363.0
150.00	346.2	348.9	352.0	355.3	357.1	358.2	358.1	355.9	347.1	345.1	340.7	338.4	335.9	335.0	334.9	334.6	346.2
152.50	329.6	332.2	334.5	338.3	339.3	339.5	340.4	338.4	331.7	329.7	325.3	323.0	320.4	319.7	320.1	319.5	329.6
155.00	314.0	316.8	318.8	322.3	322.9	322.4	323.8	322.4	317.8	315.7	311.9	309.5	306.6	306.6	307.1	307.0	314.0
157.50	299.8	302.6	304.5	307.5	307.7	307.5	308.8	307.9	305.1	303.4	300.0	297.6	295.1	295.1	294.6	295.1	299.8
160.00	287.5	290.0	292.1	294.5	294.7	294.5	295.1	295.4	293.9	292.7	289.6	287.2	285.2	285.1	283.3	284.8	287.5
162.50	275.9	278.8	280.4	282.5	282.8	283.2	282.6	283.8	282.9	281.4	279.1	277.5	275.9	275.4	272.8	274.2	275.9
165.00	263.7	266.4	267.9	270.0	270.1	270.1	269.1	271.3	270.6	269.7	267.6	266.6	264.6	263.4	260.5	260.6	263.7
167.50	250.5	252.0	254.9	256.5	256.7	255.2	255.8	256.8	256.7	256.3	253.4	253.4	250.9	249.4	246.8	245.5	250.5
170.00	235.1	238.1	241.3	242.8	241.7	239.9	241.0	240.4	241.9	241.2	239.0	237.3	236.1	234.2	233.2	229.3	235.1
172.50	218.6	221.7	226.0	227.8	225.8	224.2	224.7	223.6	226.5	224.9	222.8	220.8	219.7	216.9	215.4	211.8	218.6
175.00	216.6	220.1	222.1	220.7	218.5	217.1	216.4	215.5	224.6	221.9	221.9	222.4	222.0	220.8	219.2	216.7	216.6
177.50	223.9	224.9	226.3	223.7	222.6	222.5	222.1	220.1	226.4	225.5	225.0	223.4	224.1	223.8	221.9	221.0	223.9
180.00	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8	224.8