

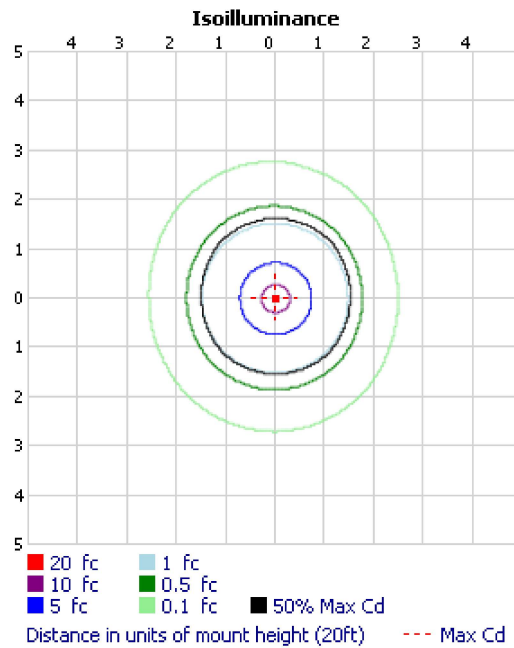
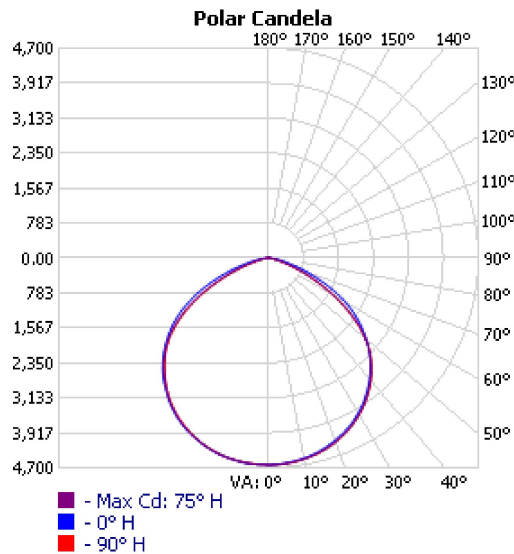
**OUTDOOR PHOTOMETRIC REPORT**

CATALOG: LHN-9040CL



Manufacturer: ADVANTAGE LIGHTING SOLUTIONS  
 Test Lab: Dongguan New Testing Centre Co., Ltd  
 Test Date: 30 June 2020  
 Catalog: LHN-9040CL  
 Description: LED  
 Lamp Output: 1 lamp, rated Lumens/lamp: 12765  
 Ballast / Driver: 120-277Vac 60Hz  
 Input Wattage: 90.2961  
 Luminous Opening: Rectangle (L: 23.62", W: 9.84")  
 Max Cd: 4,632.5 at Horizontal: 75°, Vertical: 2°  
 CUTOFF CLASS: Cutoff  
 Roadway Class: Type VS  
 Efficiency: 100%

No  
 Photo  
 Available



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VISUAL PHOTOMETRIC TOOL

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**Zonal Lumen Summary**

Zone	Lumens	% Lamp	% Luminaire
0-30	3,668.8	28.7%	28.7%
0-40	6,075.0	47.6%	47.6%
0-60	10,807.5	84.7%	84.7%
60-90	1,939.8	15.2%	15.2%
70-100	587.3	4.6%	4.6%
90-120	5.4	0%	0%
0-90	12,747.3	99.9%	99.9%
90-180	15.9	0.1%	0.1%
0-180	12,763.1	100%	100%

**Roadway Summary**

Cutoff Classification:	CUTOFF	
Distribution:	Type VS	
Max Cd, 90 Deg Vert:	21.2	
Max Cd, 80 to <90 Deg:	307.2	
	Lumens	% Lamp
Downward Street Side:	6,277.0	49.2%
Downward House Side:	6,471.7	50.7%
Downward Total:	12,748.8	99.9%
Upward Street Side:	7.8	0.1%
Upward House Side:	8.1	0.1%
Upward Total:	15.9	0.1%
Total Lumens:	12,764.7	100%

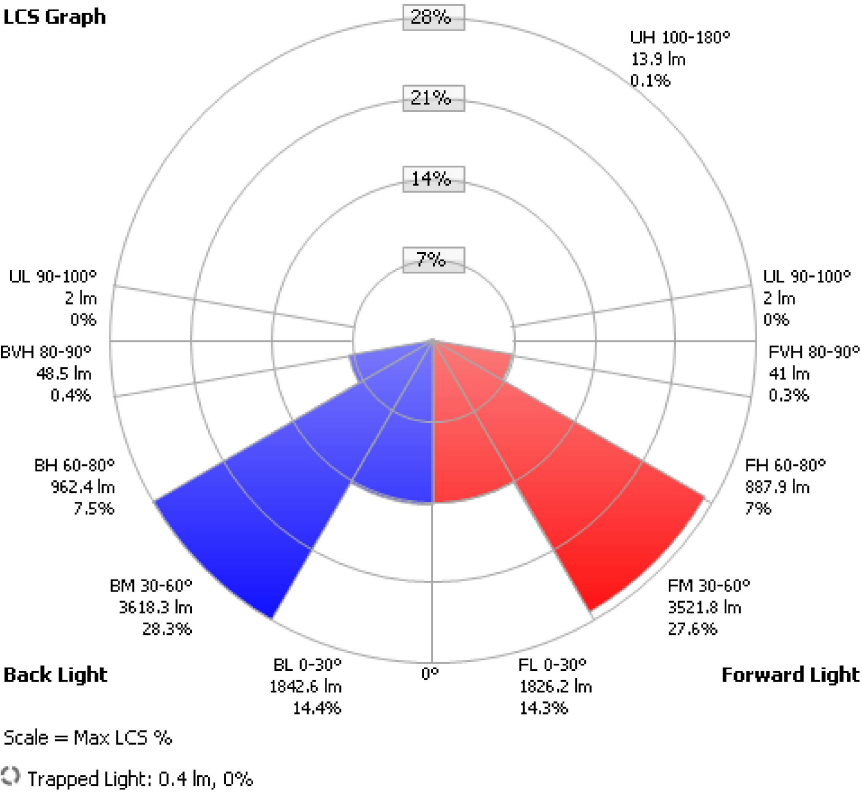
**Lumens Per Zone**

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	439.3	3.4%	90-100	2.0	0%
10-20	1,271.2	10.0%	100-110	1.6	0%
20-30	1,958.3	15.3%	110-120	1.8	0%
30-40	2,406.2	18.9%	120-130	2.1	0%
40-50	2,527.6	19.8%	130-140	2.5	0%
50-60	2,204.9	17.3%	140-150	2.3	0%
60-70	1,354.5	10.6%	150-160	1.9	0%
70-80	495.7	3.9%	160-170	1.2	0%
80-90	89.5	0.7%	170-180	0.4	0%

**LCS Table**

BUG Rating	B3 - U2 - G1	
Forward Light	Lumens	Lumens %
Low(0-30):	1,826.2	14.3%
Medium(30-60):	3,521.8	27.6%
High(60-80):	887.9	7%
Very High(80-90):	41.0	0.3%
Back Light		
Low(0-30):	1,842.6	14.4%
Medium(30-60):	3,618.3	28.3%
High(60-80):	962.4	7.5%
Very High(80-90):	48.5	0.4%
Uplight		
Low(90-100):	2.0	0%
High(100-180):	13.9	0.1%
Trapped Light:	0.4	0%

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Candela Table - Type C

	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345
0	4630	4630	4630	4630	4630	4630	4630	4630	4630	4630	4630	4630	4630	4630	4630	4630	4630	4630	4630	4630	4630	4630	4630	4630
5	4605	4605	4610	4607	4613	4618	4614	4616	4620	4621	4624	4623	4624	4621	4622	4621	4620	4623	4618	4617	4617	4614	4613	4609
10	4551	4550	4559	4558	4561	4571	4569	4576	4585	4587	4588	4583	4584	4585	4591	4592	4588	4584	4580	4574	4573	4569	4562	4555
15	4468	4470	4477	4476	4485	4492	4496	4506	4510	4516	4515	4513	4519	4518	4522	4521	4520	4514	4507	4502	4501	4491	4485	4477
20	4346	4352	4361	4363	4378	4382	4388	4397	4398	4407	4412	4408	4413	4416	4428	4422	4417	4410	4402	4393	4388	4380	4374	4365
25	4198	4199	4206	4213	4222	4234	4239	4251	4258	4264	4273	4277	4282	4284	4289	4288	4282	4271	4258	4249	4237	4231	4223	4214
30	4010	4014	4019	4026	4037	4048	4051	4068	4079	4086	4100	4101	4113	4112	4119	4111	4102	4094	4080	4070	4055	4043	4036	4027
35	3783	3789	3791	3803	3809	3819	3828	3843	3861	3877	3889	3879	3895	3908	3907	3906	3890	3880	3862	3845	3841	3825	3816	3806
40	3519	3516	3525	3535	3549	3552	3564	3584	3596	3612	3629	3625	3643	3657	3657	3663	3638	3613	3600	3580	3579	3570	3555	3540
45	3214	3210	3212	3223	3229	3235	3252	3266	3293	3314	3322	3332	3351	3362	3362	3360	3345	3324	3297	3281	3270	3261	3244	3230
50	2859	2852	2848	2864	2851	2841	2844	2863	2917	2955	2973	2983	3019	3022	3022	3018	2993	2970	2950	2923	2921	2909	2898	2886
55	2458	2444	2429	2424	2367	2317	2300	2336	2421	2519	2561	2575	2629	2631	2622	2616	2565	2520	2479	2466	2479	2495	2487	2475
60	1997	1958	1925	1881	1778	1702	1681	1716	1811	1952	2049	2090	2175	2170	2146	2121	2026	1946	1904	1894	1927	1979	1998	1995
65	1451	1405	1352	1284	1168	1089	1068	1100	1188	1330	1456	1523	1644	1640	1600	1540	1419	1321	1270	1265	1310	1389	1437	1445
70	916	875	829	765	666	608	592	616	683	800	906	972	1084	1077	1036	971	857	772	731	732	773	848	896	915
75	507	480	439	391	336	302	292	308	349	419	497	549	627	620	587	532	454	400	375	377	406	460	500	515
80	237	223	196	168	142	127	124	129	147	182	226	264	307	307	285	252	211	181	169	170	183	213	243	255
85	79	73	61	48	44	40	40	41	46	56	72	89	108	112	101	86	76	70	67	65	66	68	78	85
90	6	5	5	5	7	8	9	9	8	6	6	3	3	9	17	19	21	21	20	18	15	11	6	5
95	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
100	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
105	1	1	1	2	2	4	2	4	2	3	1	1	1	1	1	2	2	2	2	3	3	2	2	2
110	1	1	1	1	2	4	2	3	2	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2
115	1	1	2	1	2	2	2	2	2	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2
120	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
125	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3
130	2	2	3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	3
135	2	3	3	3	3	3	3	3	3	3	3	2	3	3	3	3	4	4	4	4	4	4	4	3
140	3	3	3	3	4	4	4	4	4	3	3	3	3	4	3	4	4	4	4	4	4	4	4	3
145	3	3	3	3	4	4	4	4	4	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4
150	3	3	3	3	3	4	4	4	4	3	3	3	4	4	4	4	5	5	5	5	4	4	4	4
155	3	4	4	3	3	3	3	3	3	4	3	3	5	5	5	5	5	5	5	5	5	5	5	5
160	3	4	4	3	3	3	3	4	4	4	4	4	5	5	5	6	5	5	5	5	5	5	5	5
165	4	3	3	3	3	3	3	4	4	4	4	4	5	5	5	5	6	6	5	5	5	5	5	5
170	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	4	5	5
175	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	4	4	4
180	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4