



**Filename:** LRH15L135W19800LDMV50KBZ

**Manufacturer:** SAYLITE

**Luminaire:** LED

**Luminaire Cat:** LRH15L135W19800LDMV50KBZ

**Ballast Desc:** 120-277Vac,50/60Hz

**Lamp Output:** 1 lamp, rated Lumens/lamp: 19553

**Max Candela:** 8,656.8 at Horizontal: 345°, Vertical: 24°

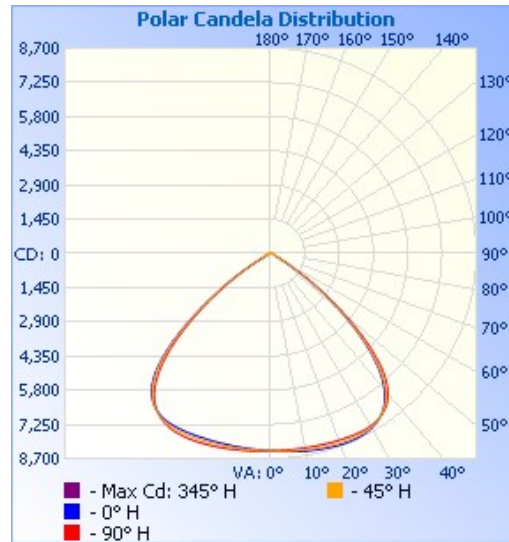
**Input Wattage:** 135.71

**Luminous Opening:** Circular (Dia: 13.78")

**Test Date:** 21 May 2019

**Photometry :** Type C

**Nema Type:** 6 X 6



**Roadway Summary**

Cutoff Classification:	CUTOFF
Distribution:	Type VS
Max Cd, 90 Deg Vert:	0.3
Max Cd, 80 to <90 Deg:	87.6
	Lumens % Lamp
Downward Street Side:	9,654.4 49.4%
Downward House Side:	9,884.0 50.5%
Downward Total:	19,538.4 99.9%
Upward Street Side:	5.8 0%
Upward House Side:	8.8 0%
Upward Total:	14.6 0.1%
<b>Total Lumens:</b>	<b>19,553.0 100%</b>

**Flood Summary**

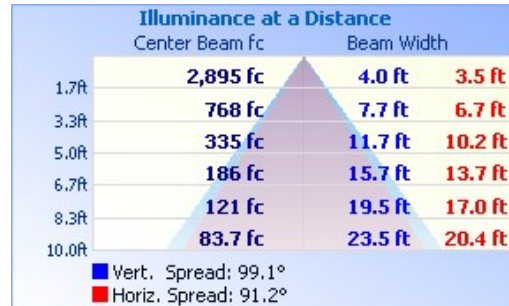
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	97.1%	18,984.2	112.2	117.6
Beam (50%):	87%	17,015.0	91.2	99.1
<b>Total:</b>	<b>100%</b>	<b>19,546.3</b>		

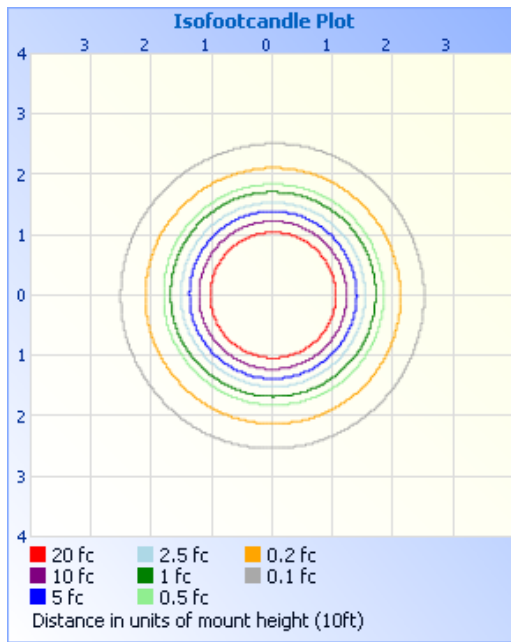
**Zonal Lumen Summary**

Zone	Lumens	% Lamp	% Luminaire
0-30	7,129.3	36.5%	36.5%
0-40	12,265.7	62.7%	62.7%
0-60	19,059.7	97.5%	97.5%
60-90	475.8	2.4%	2.4%
70-100	181.7	0.9%	0.9%
90-120	1.8	0%	0%
0-90	19,535.5	99.9%	99.9%
90-180	14.6	0.1%	0.1%
0-180	19,550.1	100%	100%

**Lumens Per Zone**

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	800.4	4.1%	90-100	0.1	0%
10-20	2,394.1	12.2%	100-110	0.5	0%
20-30	3,934.8	20.1%	110-120	1.1	0%
30-40	5,136.3	26.3%	120-130	1.9	0%
40-50	4,794.8	24.5%	130-140	2.7	0%
50-60	1,999.3	10.2%	140-150	3.0	0%
60-70	294.3	1.5%	150-160	2.7	0%
70-80	142.0	0.7%	160-170	1.9	0%
80-90	39.5	0.2%	170-180	0.7	0%





**Coefficients Of Utilization - Zonal Cavity Method**

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50			30			10			0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.12	1.08	1.05	1.02	1.09	1.06	1.03	.90	1.02	.99	.97	.98	.96	.94	.94	.93	.92	.90
2	1.04	.98	.92	.88	1.02	.96	.91	.80	.92	.88	.85	.89	.86	.83	.86	.84	.81	.79
3	.96	.88	.82	.76	.94	.87	.81	.71	.84	.79	.74	.81	.77	.73	.79	.75	.72	.70
4	.89	.80	.72	.67	.87	.78	.72	.63	.76	.70	.66	.74	.69	.65	.72	.67	.64	.62
5	.83	.72	.65	.59	.81	.71	.64	.57	.69	.63	.58	.67	.62	.57	.66	.61	.57	.55
6	.77	.66	.58	.52	.75	.65	.57	.51	.63	.57	.52	.61	.56	.51	.60	.55	.51	.49
7	.72	.60	.52	.47	.70	.59	.52	.45	.58	.51	.46	.56	.50	.46	.55	.50	.46	.44
8	.67	.55	.47	.42	.66	.54	.47	.41	.53	.46	.42	.52	.46	.41	.51	.45	.41	.39
9	.63	.50	.43	.38	.61	.50	.43	.37	.49	.42	.38	.48	.42	.37	.47	.41	.37	.36
10	.59	.47	.39	.34	.58	.46	.39	.34	.45	.39	.34	.44	.38	.34	.43	.38	.34	.32

**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	360
0	8366	8366	8366	8366	8366	8366	8366	8366	8366	8366	8366	8366	8366	8366	8366	8366	8366	8366	8366	8366	8366	8366	8366	8366	8366
1	8378	8374	8375	8369	8370	8366	8359	8359	8356	8358	8354	8353	8359	8357	8358	8362	8364	8368	8370	8372	8375	8379	8378	8379	8378
2	8389	8385	8381	8374	8374	8363	8357	8350	8347	8350	8344	8344	8348	8350	8354	8359	8365	8370	8372	8381	8384	8390	8389	8389	8389
3	8403	8393	8389	8382	8373	8367	8356	8346	8342	8342	8334	8336	8338	8344	8348	8360	8366	8371	8380	8387	8396	8402	8400	8403	8403
4	8418	8405	8396	8389	8378	8365	8354	8343	8335	8334	8327	8327	8332	8337	8344	8358	8369	8378	8389	8397	8409	8416	8418	8415	8418
5	8428	8416	8409	8397	8382	8368	8353	8344	8332	8330	8320	8323	8327	8331	8343	8359	8373	8381	8399	8407	8419	8426	8428	8431	8428
6	8439	8430	8421	8407	8389	8375	8356	8338	8327	8323	8312	8316	8324	8329	8342	8360	8375	8387	8406	8418	8435	8443	8442	8446	8439
7	8455	8442	8429	8414	8394	8378	8357	8340	8324	8320	8307	8312	8319	8326	8341	8358	8377	8395	8414	8431	8446	8456	8455	8457	8455
8	8466	8454	8442	8423	8404	8383	8361	8339	8324	8318	8305	8308	8313	8321	8342	8363	8384	8401	8423	8440	8459	8471	8473	8474	8466
9	8483	8469	8452	8433	8413	8387	8362	8341	8319	8314	8299	8305	8309	8319	8342	8364	8387	8409	8433	8451	8472	8483	8487	8488	8483
10	8496	8480	8466	8444	8419	8391	8366	8343	8321	8310	8296	8300	8310	8319	8342	8369	8392	8416	8441	8460	8485	8498	8499	8504	8496
11	8514	8495	8480	8451	8427	8399	8370	8341	8321	8311	8292	8298	8307	8322	8343	8371	8400	8428	8452	8477	8498	8512	8516	8518	8514
12	8527	8508	8493	8464	8436	8406	8374	8346	8323	8308	8290	8295	8305	8323	8345	8381	8403	8435	8462	8485	8512	8525	8529	8535	8527
13	8542	8525	8501	8475	8445	8412	8378	8347	8323	8308	8289	8294	8302	8320	8349	8380	8413	8444	8474	8500	8527	8540	8546	8548	8542
14	8554	8535	8513	8486	8455	8417	8382	8351	8328	8307	8292	8295	8305	8324	8349	8384	8420	8450	8485	8509	8537	8553	8562	8563	8554
15	8566	8550	8526	8497	8465	8429	8391	8357	8332	8307	8291	8296	8310	8323	8355	8389	8427	8461	8496	8524	8553	8570	8573	8576	8566
16	8581	8561	8537	8506	8473	8437	8399	8363	8333	8313	8295	8302	8309	8327	8361	8396	8436	8470	8503	8536	8566	8584	8585	8591	8581
17	8593	8572	8549	8514	8483	8445	8404	8370	8342	8319	8298	8303	8314	8333	8363	8404	8444	8479	8517	8552	8579	8594	8597	8604	8593

18	8602	8588	8561	8524	8490	8451	8413	8378	8344	8324	8300	8306	8318	8338	8372	8412	8452	8492	8527	8563	8594	8610	8609	8618	8602
19	8614	8597	8571	8538	8500	8459	8420	8380	8348	8327	8307	8309	8320	8345	8382	8421	8462	8500	8540	8572	8603	8621	8622	8629	8614
20	8625	8605	8578	8545	8508	8469	8425	8387	8358	8330	8311	8313	8323	8348	8388	8429	8473	8512	8547	8586	8613	8629	8634	8639	8625
21	8630	8612	8585	8550	8520	8475	8431	8394	8365	8338	8319	8321	8329	8354	8395	8438	8483	8524	8558	8592	8622	8636	8641	8645	8630
22	8635	8620	8593	8559	8528	8485	8441	8401	8371	8349	8327	8324	8337	8362	8403	8444	8492	8530	8568	8601	8628	8647	8647	8652	8635
23	8642	8625	8595	8568	8534	8491	8451	8409	8377	8352	8333	8336	8345	8371	8409	8452	8501	8538	8573	8611	8636	8653	8649	8657	8642
24	8641	8625	8599	8565	8538	8497	8458	8417	8387	8360	8337	8343	8351	8377	8418	8458	8511	8542	8579	8615	8636	8653	8650	8657	8641
25	8639	8622	8598	8570	8540	8500	8465	8422	8393	8368	8348	8348	8360	8381	8423	8466	8512	8547	8583	8617	8640	8655	8649	8652	8639
26	8630	8616	8593	8566	8537	8499	8468	8429	8399	8373	8353	8353	8364	8387	8428	8467	8512	8547	8578	8616	8635	8650	8640	8646	8630
27	8621	8609	8587	8558	8531	8501	8469	8429	8408	8377	8358	8358	8370	8392	8431	8471	8517	8546	8577	8609	8623	8641	8631	8631	8621
28	8602	8589	8573	8551	8521	8493	8466	8427	8405	8376	8362	8363	8373	8392	8430	8465	8512	8539	8564	8600	8611	8623	8612	8615	8602
29	8578	8567	8551	8528	8509	8487	8461	8425	8397	8377	8363	8363	8370	8390	8423	8460	8502	8529	8552	8581	8586	8600	8586	8590	8578
30	8546	8541	8524	8507	8488	8469	8448	8413	8391	8368	8359	8359	8369	8384	8415	8451	8491	8513	8531	8562	8560	8568	8555	8555	8546
31	8502	8500	8490	8475	8458	8443	8429	8399	8377	8358	8350	8348	8360	8373	8400	8439	8472	8489	8503	8532	8525	8529	8511	8515	8502
32	8453	8453	8444	8432	8424	8410	8402	8371	8355	8341	8331	8334	8344	8354	8382	8412	8443	8458	8463	8487	8481	8480	8460	8462	8453
33	8389	8391	8384	8380	8376	8369	8364	8343	8328	8314	8304	8313	8324	8328	8354	8380	8403	8416	8418	8436	8422	8422	8396	8399	8389
34	8314	8317	8318	8315	8319	8318	8323	8298	8293	8283	8275	8284	8293	8299	8322	8340	8362	8364	8360	8375	8351	8346	8321	8319	8314
35	8223	8233	8233	8239	8247	8251	8267	8244	8243	8231	8234	8245	8251	8254	8276	8290	8301	8298	8287	8298	8267	8260	8230	8231	8223
36	8118	8128	8135	8144	8162	8175	8193	8173	8179	8178	8183	8190	8203	8201	8220	8226	8234	8222	8199	8208	8170	8160	8123	8119	8118
37	7989	8009	8015	8035	8056	8071	8106	8087	8105	8100	8111	8124	8139	8133	8146	8149	8145	8124	8095	8098	8058	8036	7995	7995	7989
38	7843	7872	7874	7902	7924	7957	8002	7985	8007	8007	8026	8042	8059	8052	8058	8047	8044	8010	7975	7970	7918	7895	7848	7848	7843
39	7680	7702	7714	7746	7777	7812	7866	7858	7891	7897	7916	7938	7957	7949	7950	7933	7918	7876	7826	7824	7759	7732	7678	7680	7680
40	7482	7510	7526	7567	7599	7645	7710	7705	7743	7760	7783	7814	7835	7819	7816	7789	7771	7713	7656	7648	7578	7543	7487	7487	7482
41	7261	7288	7302	7355	7393	7449	7526	7522	7572	7596	7628	7657	7682	7660	7650	7623	7595	7527	7459	7454	7371	7328	7268	7265	7261
42	7005	7032	7046	7104	7152	7214	7306	7306	7365	7396	7432	7471	7496	7473	7459	7422	7386	7313	7232	7226	7136	7087	7019	7014	7005
43	6724	6746	6754	6823	6880	6949	7053	7052	7128	7160	7210	7248	7279	7251	7236	7194	7151	7066	6980	6968	6873	6813	6738	6732	6724
44	6405	6424	6420	6497	6564	6640	6761	6762	6849	6882	6947	6988	7023	6991	6975	6926	6885	6791	6691	6687	6574	6512	6425	6415	6405
45	6065	6069	6073	6143	6216	6299	6430	6430	6531	6573	6644	6682	6720	6688	6675	6625	6575	6475	6369	6362	6250	6176	6090	6076	6065
46	5686	5684	5684	5758	5834	5914	6061	6057	6175	6208	6293	6334	6376	6350	6338	6282	6235	6133	6012	6012	5887	5811	5720	5702	5686
47	5287	5278	5283	5349	5420	5501	5649	5649	5766	5808	5894	5943	5989	5963	5947	5903	5851	5750	5622	5628	5498	5415	5325	5306	5287
48	4873	4861	4861	4928	4998	5066	5216	5204	5330	5365	5454	5508	5566	5531	5527	5484	5440	5336	5205	5214	5085	4997	4912	4897	4873
49	4436	4429	4431	4495	4550	4628	4761	4742	4857	4891	5002	5055	5115	5086	5080	5038	4992	4897	4767	4781	4639	4562	4481	4467	4436
50	4000	4000	3987	4052	4107	4173	4303	4275	4386	4418	4521	4581	4646	4617	4612	4580	4540	4447	4317	4329	4198	4120	4039	4036	4000
51	3565	3566	3567	3618	3657	3728	3854	3816	3916	3947	4054	4110	4170	4150	4153	4121	4084	3998	3865	3879	3744	3682	3601	3601	3565
52	3134	3147	3144	3198	3227	3290	3406	3376	3463	3494	3590	3649	3702	3679	3697	3662	3634	3550	3421	3428	3306	3248	3165	3170	3134
53	2712	2735	2729	2781	2803	2865	2980	2947	3029	3063	3158	3210	3257	3249	3259	3216	3188	3120	2988	2999	2870	2819	2738	2748	2712
54	2299	2347	2313	2392	2393	2453	2560	2533	2613	2654	2740	2787	2830	2821	2829	2785	2761	2686	2564	2568	2444	2423	2318	2354	2299
55	1910	1960	1923	2003	2007	2080	2193	2140	2258	2262	2364	2374	2444	2410	2441	2366	2375	2276	2153	2188	2046	2026	1917	1960	1910
56	1536	1573	1549	1616	1640	1708	1825	1781	1903	1897	1988	1988	2059	2020	2053	1981	1988	1880	1766	1808	1659	1630	1537	1567	1536
57	1197	1232	1217	1280	1302	1366	1459	1448	1549	1554	1611	1618	1675	1644	1666	1612	1603	1513	1405	1430	1309	1280	1210	1224	1197
58	918	950	943	1000	1011	1068	1149	1138	1228	1236	1284	1284	1337	1308	1325	1278	1261	1186	1094	1107	1001	978	921	941	918
59	727	730	755	771	830	819	879	921	947	959	998	988	1024	1009	1018	977	961	906	881	839	810	734	726	714	727
60	536	568	567	596	650	628	670	708	718	773	755	794	769	807	757	779	714	697	668	626	621	554	533	552	536
61	428	449	454	470	470	485	510	494	542	589	561	602	562	605	552	582	520	489	455	467	431	430	422	433	428
62	354	368	375	383	380	383	396	378	412	406	423	409	420	402	408	386	389	372	354	363	348	350	349	355	354
63	304	312	317	321	319	315	322	308	328	321	335	325	331	317	324	310	315	306	301	304	299	302	302	304	304
64	271	274	277	279	277	272	277	268	278	274	285	280	284	274	278	271	277	272	270	273	270	271	271	271	271
65	247	249	249	250	249	246	249	243	250	248	256	254	257	250	253	248	254	251	249	251	248	249	250	249	247
66	229	233	229	233	229	230	232	225	233	229	237	235	238	232	236	231	238	234	232	236	231	234	233	234	229
67	215	218	213	216	212	214	215	210	216	214	221	220	223	216	220	216	222	219	218	220	216	220	219	220	215
68	203	202	200	200	199	198	199	197	199	201	206	207	207	203	203	203	206	207	205	205	203	205	207	206	203
69	194	193	190	189	188	187	187	186	188	191	194	195	195	191	192	192	194	195	194	194	192	194	196	196	194
70	185	183	181	180	179	177	177	177	178	181	184	186	185	181	182	182	184	185	184	184	181	183	186	186	185

74	150	148	144	145	147	142	142	140	143	145	148	150	150	145	145	146	149	146	144	146	144	144	146	148	150
75	138	136	133	134	135	132	132	130	133	135	138	139	140	135	136	137	138	136	133	135	134	134	135	138	138
76	127	125	122	123	123	122	121	121	122	125	127	129	129	126	126	127	127	126	123	125	124	125	124	127	127
77	115	115	111	113	112	113	111	111	113	115	115	119	118	117	116	117	116	116	112	116	114	115	113	117	115
78	103	103	101	103	102	103	101	101	102	104	104	108	107	107	106	107	106	106	102	106	104	105	103	106	103
79	92	93	90	94	92	93	91	92	92	96	94	98	96	97	96	97	96	97	92	96	95	95	93	95	92
80	82	82	80	84	83	84	82	82	83	86	85	87	86	87	87	88	87	87	83	87	85	86	83	85	82
81	71	73	70	75	73	74	73	73	74	76	75	76	77	77	77	78	78	78	74	78	75	76	73	74	71
82	61	62	60	65	64	65	65	63	65	66	66	66	67	67	68	68	69	68	65	69	66	67	63	64	61
83	48	51	50	56	55	56	56	55	56	57	56	56	57	57	58	59	60	59	56	60	57	58	53	53	48
84	36	38	38	45	45	47	46	45	47	48	45	44	44	44	47	50	51	51	47	51	47	48	41	40	36
85	25	27	26	34	35	37	37	36	38	37	35	32	32	32	35	40	41	41	38	41	38	37	29	28	25
86	12	15	16	22	25	27	26	27	27	26	24	20	21	21	25	28	31	32	28	30	29	26	17	16	12
87	8	4	10	11	14	16	16	17	17	14	13	8	9	10	15	16	21	23	19	18	17	14	11	5	8
88	4	0	5	2	9	5	6	12	6	9	3	4	2	5	4	11	10	10	13	7	11	3	6	0	4
89	0	0	0	0	5	0	0	6	0	5	0	0	0	0	0	6	2	5	7	0	6	0	0	0	0
90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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103	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
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106	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
107	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
108	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
109	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
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111	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0
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121	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1
122	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1
123	1	1	1	1	1	1	3	3	2	2	2	2	2	2	2	2	2	3	1	1	1	1	1	1	1
124	1	1	1	1	2	1	3	3	3	3	2	2	2	2	2	3	3	3	2	2	2	1	2	1	1
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127	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2
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179	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	7	7	7	7	7	7
180	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	7	7	7	7	7	7

**Luminaire Report Summary**

IESNA: LM-63-2002  
[TEST]  
[TESTLAB]

[TESTDATE] 21 May 2019  
[ISSUEDATE] 2019-05-21 09:02:27  
[NEARFIELD]  
[LAMPPOSITION] 0,0  
[OTHER] EVERFINE GO-R5000\_V2 SYSTEM  
[MANUFAC] SAYLITE  
[LUMCAT] LRH15L135W19800LDMV50KBZ  
[LUMINAIRE] LED  
[BALLAST] 120-277Vac,50/60Hz  
[OTHER]  
[OTHER] Gamma (deg) Fz(lm) Ft(lm) %Lum %Lamp  
[OTHER] 0- 10 800.42 800.42 4.09 4.09  
[OTHER] 10- 20 2394.02 3194.43 16.34 16.34  
[OTHER] 20- 30 3934.70 7129.13 36.46 36.46  
[OTHER] 30- 40 5137.17 12266.30 62.73 62.73  
[OTHER] 40- 50 4796.15 17062.45 87.26 87.26  
[OTHER] 50- 60 2000.10 19062.56 97.49 97.49  
[OTHER] 60- 70 294.30 19356.86 99.00 99.00  
[OTHER] 70- 80 141.94 19498.80 99.72 99.72  
[OTHER] 80- 90 39.53 19538.34 99.93 99.93  
[OTHER] 90-100 0.15 19538.49 99.93 99.93  
[OTHER] 100-110 0.51 19538.99 99.93 99.93  
[OTHER] 110-120 1.10 19540.10 99.93 99.93  
[OTHER] 120-130 1.92 19542.01 99.94 99.94  
[OTHER] 130-140 2.68 19544.69 99.96 99.96  
[OTHER] 140-150 3.00 19547.69 99.97 99.97  
[OTHER] 150-160 2.75 19550.44 99.99 99.99  
[OTHER] 160-170 1.87 19552.31 100.00 100.00  
[OTHER] 170-180 0.65 19552.96 100.00 100.00  
[OTHER]  
FILE: CANDELA MULTIPLIER: 1  
FILE: VERTICAL ANGLES: 181, HORIZONTAL ANGLES: 25  
FILE: COORDINATE SYSTEM: TYPE C  
FILE: UNIT OF MEASURE: METRIC  
FILE: BALLAST FACTOR: 1

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Reported data calculated from manufacturer's data file, based on IES recommended methods.