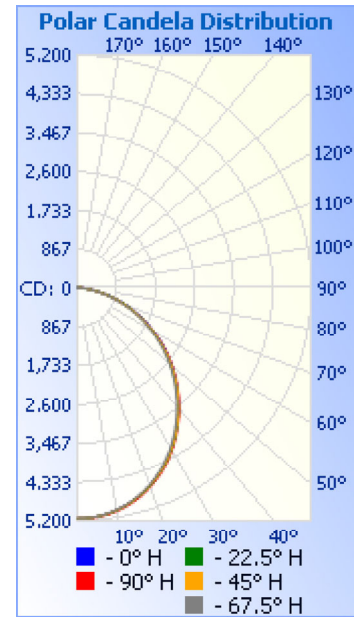


# Photometrics Pro

## Luminaire Photometric Report

**Filename:** Linear High Bay 110W LHB2 - 120V  
**Manufacturer:** SARIN Energy Inc.  
**Luminaire:** SES-LHB2-5700-110W 120V  
**Lamp Output:** 1 lamp, rated Lumens/lamp: 13375.6  
**Max Candela:** 5,167.0 at Horizontal: 90°, Vertical: 1°  
**Input Wattage:** 108.22  
**Luminous Opening:** Point  
**Test Lab:** Shenzhen Belling Test Laboratory  
**Photometry :** Type C  
**Nema Type:** 7 X 7



### Roadway Summary

Cutoff Classification:	CUTOFF	
Distribution:	Type VS	
Max Cd, 90 Deg Vert:	14.2	
Max Cd, 80 to <90 Deg:	453.3	
	Lumens	% Lamp
Downward Street Side:	6,621.2	49.5%
Downward House Side:	6,710.5	50.2%
Downward Total:	13,331.8	99.7%
Upward Street Side:	20.6	0.2%
Upward House Side:	23.2	0.2%
Upward Total:	43.8	0.3%
<b>Total Lumens:</b>	<b>13,375.6</b>	<b>100%</b>

### Flood Summary

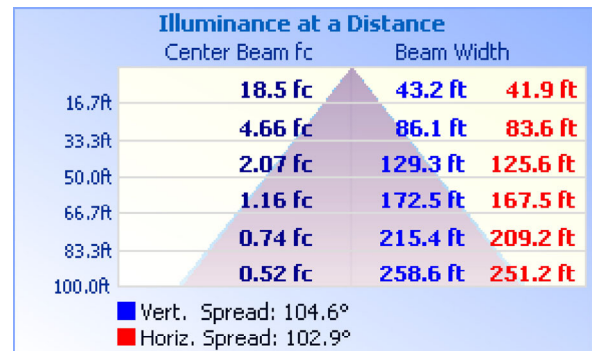
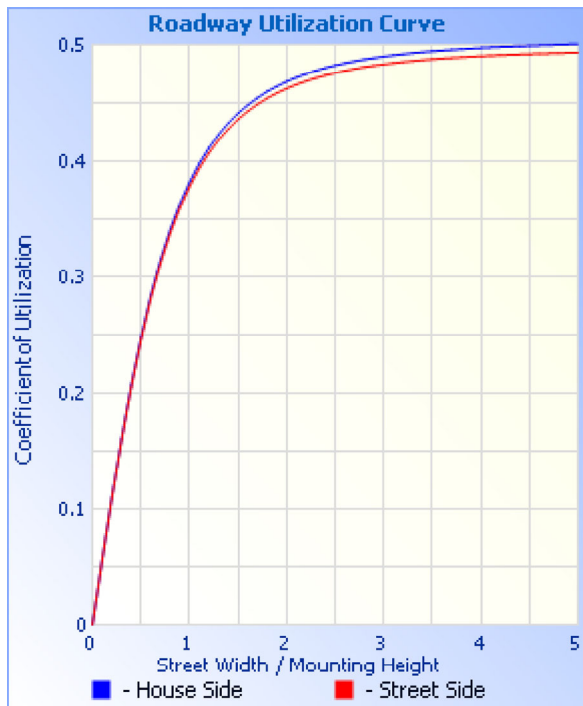
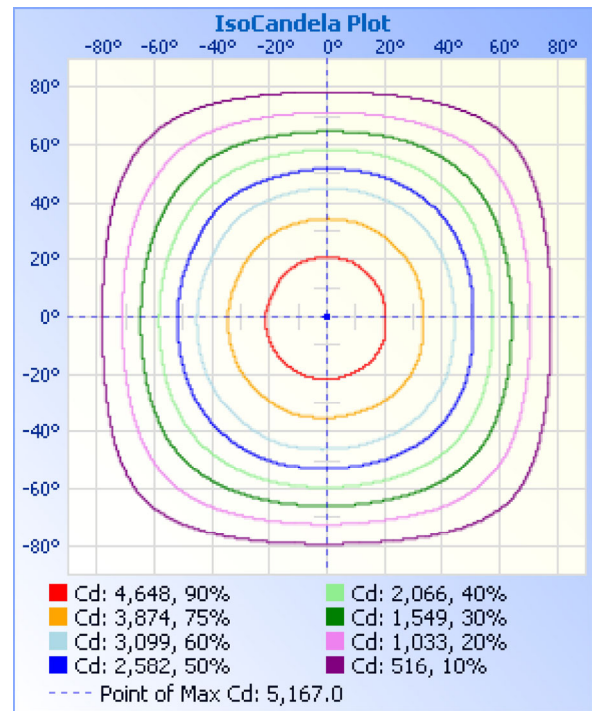
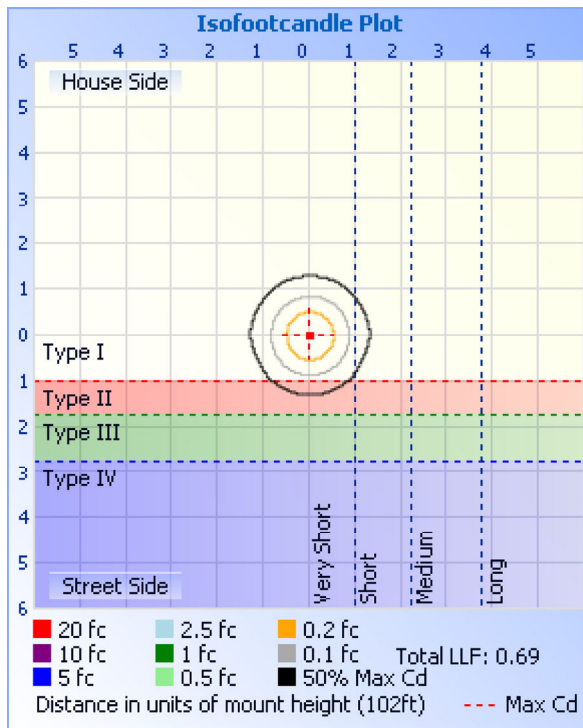
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	97.7%	13,061.7	155.9	157.8
Beam (50%):	68.4%	9,155.3	102.9	104.6
<b>Total:</b>	<b>100%</b>	<b>13,369.6</b>		

### Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	3,916.0	29.3%	29.3%
0-40	6,311.8	47.2%	47.2%
0-60	10,804.5	80.8%	80.8%
60-90	2,525.8	18.9%	18.9%
70-100	1,004.8	7.5%	7.5%
90-120	20.9	0.2%	0.2%
0-90	13,330.3	99.7%	99.7%
90-180	43.8	0.3%	0.3%
0-180	13,374.1	100%	100%

### Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	487.3	3.6%	90-100	9.2	0.1%
10-20	1,380.7	10.3%	100-110	6.3	0%
20-30	2,047.9	15.3%	110-120	5.4	0%
30-40	2,395.8	17.9%	120-130	5.1	0%
40-50	2,401.0	18.0%	130-140	5.0	0%
50-60	2,091.8	15.6%	140-150	5.0	0%
60-70	1,530.2	11.4%	150-160	4.2	0%
70-80	812.1	6.1%	160-170	2.8	0%
80-90	183.5	1.4%	170-180	1.0	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	1.09	1.05	1.00	.97	1.06	1.02	.98	.85	.98	.95	.92	.94	.91	.89	.90	.88	.86	.84
2	.99	.91	.85	.79	.97	.90	.83	.72	.86	.81	.76	.83	.78	.75	.80	.76	.73	.71
3	.91	.81	.73	.66	.88	.79	.72	.62	.76	.70	.64	.73	.68	.63	.71	.66	.62	.60

4	.83	.72	.63	.56	.81	.70	.62	.53	.68	.61	.55	.65	.59	.54	.63	.58	.54	.51
5	.77	.64	.55	.49	.75	.63	.55	.47	.61	.54	.48	.59	.52	.47	.57	.51	.47	.45
6	.71	.58	.49	.43	.69	.57	.49	.41	.55	.48	.42	.53	.47	.42	.52	.46	.41	.39
7	.66	.53	.44	.38	.64	.52	.43	.37	.50	.43	.37	.49	.42	.37	.47	.41	.37	.35
8	.61	.48	.40	.34	.60	.47	.39	.33	.46	.39	.33	.45	.38	.33	.43	.37	.33	.31
9	.57	.44	.36	.30	.56	.43	.36	.30	.42	.35	.30	.41	.35	.30	.40	.34	.30	.28
10	.54	.41	.33	.28	.53	.40	.33	.27	.39	.32	.27	.38	.32	.27	.37	.31	.27	.25

**Candela Table - Type C**

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5	360
0	5165	5165	5165	5165	5165	5165	5165	5165	5165	5165	5165	5165	5165	5165	5165	5165	5165
1	5163	5164	5164	5163	5167	5166	5166	5164	5164	5163	5163	5164	5160	5161	5162	5164	5163
2	5159	5161	5161	5160	5166	5164	5164	5162	5161	5159	5160	5160	5154	5155	5156	5160	5159
3	5153	5155	5154	5154	5163	5159	5161	5156	5156	5153	5154	5154	5145	5147	5148	5154	5153
4	5145	5147	5147	5145	5158	5153	5154	5148	5147	5143	5145	5146	5132	5137	5138	5145	5145
5	5134	5138	5135	5135	5150	5144	5144	5137	5137	5132	5135	5135	5119	5125	5125	5135	5134
6	5121	5125	5122	5122	5140	5132	5133	5125	5124	5119	5121	5120	5102	5111	5110	5122	5121
7	5104	5111	5108	5104	5126	5119	5120	5111	5109	5103	5106	5105	5085	5093	5093	5106	5104
8	5087	5094	5090	5086	5111	5103	5104	5094	5092	5084	5089	5087	5064	5072	5071	5088	5087
9	5067	5073	5071	5065	5093	5084	5085	5073	5073	5063	5068	5068	5041	5049	5050	5067	5067
10	5045	5051	5049	5043	5073	5063	5063	5051	5051	5041	5046	5045	5015	5025	5025	5045	5045
11	5022	5027	5024	5018	5050	5038	5039	5028	5025	5016	5022	5020	4985	4999	4998	5020	5022
12	4995	5001	4998	4991	5026	5013	5014	5002	4999	4989	4993	4991	4955	4971	4970	4995	4995
13	4965	4975	4968	4959	4996	4986	4987	4974	4971	4960	4963	4962	4924	4938	4938	4964	4965
14	4934	4941	4938	4928	4969	4955	4956	4944	4940	4928	4933	4930	4890	4905	4904	4934	4934
15	4902	4909	4905	4893	4934	4923	4924	4913	4908	4892	4900	4897	4849	4870	4869	4900	4902
16	4866	4873	4869	4856	4900	4885	4886	4875	4873	4856	4864	4861	4810	4831	4831	4867	4866
17	4828	4836	4831	4816	4864	4849	4849	4839	4833	4819	4827	4819	4768	4793	4793	4828	4828
18	4790	4798	4792	4775	4826	4810	4811	4801	4794	4779	4783	4779	4725	4751	4752	4789	4790
19	4745	4757	4751	4733	4782	4770	4770	4762	4754	4734	4743	4738	4680	4708	4709	4748	4745
20	4703	4714	4705	4689	4739	4727	4727	4715	4710	4689	4699	4694	4634	4659	4663	4701	4703
21	4658	4668	4661	4642	4695	4683	4682	4672	4665	4644	4654	4649	4580	4611	4616	4656	4658
22	4610	4620	4615	4593	4647	4636	4630	4627	4618	4596	4606	4600	4529	4565	4566	4609	4610
23	4559	4570	4566	4537	4599	4583	4581	4579	4565	4547	4557	4546	4477	4513	4515	4560	4559
24	4508	4519	4513	4486	4549	4534	4531	4532	4516	4497	4503	4495	4423	4459	4463	4506	4508
25	4456	4467	4463	4432	4492	4484	4474	4478	4464	4440	4451	4444	4368	4400	4410	4456	4456
26	4402	4412	4409	4377	4437	4425	4420	4426	4406	4386	4398	4389	4309	4349	4350	4398	4402
27	4345	4356	4352	4314	4381	4370	4364	4373	4352	4330	4342	4333	4248	4285	4292	4343	4345
28	4288	4294	4292	4255	4323	4313	4306	4318	4294	4272	4280	4269	4186	4226	4232	4285	4288
29	4226	4238	4238	4198	4262	4255	4246	4263	4236	4213	4220	4211	4122	4164	4176	4226	4226
30	4171	4175	4175	4135	4195	4196	4186	4205	4178	4154	4161	4151	4059	4105	4113	4166	4171
31	4108	4112	4112	4066	4135	4137	4120	4142	4118	4088	4101	4090	3996	4041	4051	4100	4108
32	4043	4053	4053	4001	4071	4068	4056	4081	4050	4024	4038	4027	3925	3978	3988	4038	4043
33	3983	3985	3984	3936	4007	4006	3993	4021	3988	3962	3976	3957	3860	3910	3926	3973	3983
34	3913	3914	3923	3870	3941	3942	3927	3958	3923	3896	3903	3891	3792	3840	3855	3905	3913
35	3849	3850	3853	3797	3868	3877	3861	3895	3858	3830	3838	3825	3724	3775	3790	3836	3849
36	3776	3780	3784	3731	3801	3810	3788	3825	3793	3757	3772	3758	3656	3704	3721	3772	3776
37	3712	3709	3718	3658	3734	3737	3720	3761	3720	3690	3705	3684	3583	3634	3652	3697	3712
38	3639	3641	3652	3590	3665	3668	3651	3694	3652	3621	3628	3614	3515	3567	3580	3628	3639
39	3570	3563	3574	3519	3595	3599	3581	3627	3583	3552	3559	3544	3446	3494	3512	3557	3570
40	3499	3489	3509	3445	3525	3528	3511	3558	3514	3483	3488	3472	3373	3418	3436	3487	3499
41	3427	3415	3433	3377	3446	3456	3438	3487	3443	3411	3416	3400	3301	3350	3364	3411	3427
42	3355	3340	3358	3299	3376	3378	3360	3412	3367	3335	3346	3323	3229	3273	3291	3341	3355
43	3283	3266	3289	3222	3306	3307	3289	3341	3297	3266	3268	3251	3157	3198	3221	3264	3283
44	3206	3194	3211	3150	3228	3234	3215	3269	3225	3195	3194	3177	3076	3127	3150	3192	3206
45	3133	3119	3141	3076	3155	3160	3141	3188	3151	3115	3121	3103	3002	3052	3069	3118	3133
46	3059	3035	3060	2997	3080	3085	3058	3113	3077	3041	3047	3029	2928	2970	2994	3040	3059

47	2984	2956	2980	2919	3007	3001	2983	3036	2995	2968	2965	2953	2854	2897	2918	2961	2984
48	2908	2878	2908	2847	2932	2925	2907	2960	2921	2895	2890	2870	2772	2816	2841	2890	2908
49	2834	2803	2829	2768	2851	2851	2833	2885	2847	2815	2816	2796	2698	2737	2769	2813	2834
50	2754	2722	2747	2686	2775	2774	2757	2800	2772	2742	2741	2720	2616	2663	2690	2742	2754
51	2680	2646	2669	2616	2699	2698	2675	2722	2698	2668	2666	2644	2539	2586	2617	2667	2680
52	2601	2567	2588	2536	2622	2613	2599	2644	2615	2594	2583	2560	2461	2506	2536	2590	2601
53	2522	2488	2513	2452	2544	2535	2522	2564	2539	2517	2506	2483	2383	2424	2458	2510	2522
54	2444	2410	2430	2374	2460	2458	2447	2486	2464	2435	2430	2408	2307	2344	2381	2431	2444
55	2369	2334	2345	2292	2381	2372	2364	2400	2390	2359	2354	2332	2232	2265	2306	2359	2369
56	2286	2253	2268	2216	2304	2294	2288	2320	2306	2283	2271	2248	2156	2191	2224	2277	2286
57	2210	2177	2187	2137	2223	2214	2211	2240	2228	2205	2194	2171	2079	2113	2147	2200	2210
58	2125	2094	2105	2055	2136	2136	2135	2162	2153	2128	2117	2094	1997	2033	2063	2121	2125
59	2046	2016	2019	1973	2054	2056	2056	2080	2075	2048	2038	2015	1924	1953	1985	2048	2046
60	1964	1945	1944	1891	1975	1978	1972	1994	2000	1963	1961	1939	1845	1873	1912	1967	1964
61	1884	1866	1860	1817	1896	1894	1895	1915	1916	1887	1877	1855	1765	1798	1832	1893	1884
62	1808	1785	1782	1734	1808	1817	1818	1837	1840	1801	1799	1778	1688	1714	1749	1807	1808
63	1730	1710	1701	1653	1727	1737	1738	1756	1761	1729	1719	1699	1614	1643	1672	1733	1730
64	1646	1630	1625	1580	1648	1659	1653	1669	1683	1644	1641	1621	1531	1562	1589	1650	1646
65	1561	1553	1540	1498	1566	1579	1572	1588	1603	1564	1561	1542	1452	1477	1511	1567	1561
66	1487	1472	1460	1414	1487	1493	1495	1510	1517	1487	1475	1456	1369	1404	1429	1488	1487
67	1413	1398	1384	1334	1408	1413	1416	1432	1438	1409	1394	1381	1294	1328	1358	1413	1413
68	1331	1318	1306	1258	1324	1329	1333	1350	1364	1327	1323	1303	1213	1251	1272	1332	1331
69	1249	1237	1220	1178	1243	1256	1255	1270	1281	1249	1245	1225	1137	1169	1192	1254	1249
70	1171	1160	1139	1098	1167	1171	1181	1195	1198	1174	1162	1142	1056	1095	1115	1168	1171
71	1094	1083	1061	1018	1087	1089	1102	1116	1118	1096	1083	1064	980	1012	1039	1089	1094
72	1019	1008	984	940	1002	1011	1027	1033	1043	1014	1009	989	905	939	965	1011	1019
73	940	936	914	864	924	925	943	957	966	940	933	913	826	860	894	939	940
74	868	856	830	790	850	851	870	884	885	868	852	833	755	788	814	864	868
75	787	780	750	709	773	775	794	808	807	793	776	759	681	715	741	785	787
76	713	706	676	638	700	702	720	735	734	721	705	688	605	640	663	703	713
77	642	627	604	563	621	631	647	655	660	642	633	617	539	564	593	630	642
78	571	563	534	499	551	554	568	586	582	573	564	549	478	498	530	559	571
79	506	491	468	432	486	488	500	519	514	506	491	476	412	435	461	494	506
80	435	428	398	375	419	424	428	453	449	436	427	415	356	369	400	423	435
81	373	360	337	316	361	364	365	384	385	373	365	355	294	311	333	361	373
82	313	300	274	268	309	308	306	323	325	313	306	298	242	257	275	301	313
83	256	244	227	217	260	253	251	267	263	257	247	241	196	209	222	246	256
84	206	191	181	175	215	207	201	214	211	206	196	195	154	164	173	194	206
85	157	143	139	134	170	166	155	165	165	160	152	154	114	124	130	146	157
86	117	104	100	98	131	125	117	118	124	113	114	116	79	86	94	107	117
87	75	68	67	64	96	91	85	80	83	77	77	76	43	50	63	68	75
88	45	41	36	31	62	58	56	52	52	47	45	42	18	22	31	37	45
89	20	17	18	16	26	27	29	28	26	23	21	21	9	11	14	16	20
90	11	12	12	12	12	14	14	14	13	13	13	13	8	10	11	12	11
91	10	11	11	10	9	12	11	12	11	12	11	11	8	9	10	10	10
92	10	10	9	10	9	10	10	12	11	11	11	10	7	8	8	9	10
93	9	9	10	10	8	9	10	10	10	10	10	9	7	7	9	8	9
94	9	9	8	8	7	10	9	10	10	9	8	9	8	7	7	9	9
95	8	9	8	9	5	9	9	10	10	8	8	9	7	6	8	8	8

96	8	7	7	6	6	8	8	9	8	8	7	7	5	7	8	8	8
97	7	7	8	7	6	7	9	8	7	7	8	8	5	6	7	6	7
98	8	7	7	7	6	7	8	9	8	8	7	7	5	6	7	7	8
99	6	8	8	7	4	7	9	9	9	8	7	6	5	6	6	6	6
100	6	7	6	7	5	7	8	7	8	7	6	6	5	6	7	6	6
101	6	6	5	6	4	6	8	7	7	6	7	7	5	5	6	6	6
102	7	7	7	7	5	7	8	7	6	6	7	7	4	4	5	6	7
103	6	5	7	5	4	6	7	7	7	7	7	6	4	5	6	5	6
104	7	6	6	5	4	7	8	7	7	6	7	6	5	5	5	6	7
105	6	6	7	6	4	5	8	7	7	6	7	6	3	5	6	4	6
106	6	5	7	5	5	7	6	8	6	6	7	6	4	5	4	6	6
107	5	5	4	5	5	6	6	7	7	7	7	7	4	5	5	5	5
108	5	5	6	5	4	7	8	7	7	7	6	6	3	5	5	6	5
109	6	5	6	6	4	6	7	8	7	7	7	7	3	3	4	5	6
110	5	5	6	6	4	6	7	7	7	7	6	6	4	4	6	6	5
111	6	6	5	6	4	6	6	7	7	5	7	7	4	5	5	6	6
112	5	5	5	5	4	6	7	7	7	6	7	5	4	4	5	4	5
113	6	5	6	5	4	6	6	7	7	6	7	6	4	4	5	5	6
114	6	5	6	5	3	6	6	6	7	6	6	5	4	3	5	6	6
115	5	5	5	5	3	4	7	7	7	6	7	6	3	5	5	5	5
116	4	5	6	4	4	5	7	6	5	6	6	7	4	5	5	6	4
117	6	5	5	5	4	6	7	7	7	6	7	7	4	3	4	4	6
118	6	6	6	6	4	5	6	7	8	6	7	6	4	4	5	5	6
119	6	5	5	6	4	6	7	7	7	7	6	6	4	5	5	5	6
120	5	5	4	4	4	6	4	5	7	5	6	7	4	4	6	5	5
121	6	4	6	5	4	5	7	7	7	6	6	7	4	4	5	6	6
122	6	4	5	3	5	5	6	7	7	6	6	6	4	4	6	5	6
123	6	5	5	6	4	4	7	8	7	7	7	7	5	5	5	5	6
124	6	6	6	5	4	4	7	7	6	6	7	6	4	5	6	6	6
125	6	5	6	6	4	5	7	6	7	7	7	6	4	4	6	6	6
126	5	5	6	5	4	5	6	7	7	7	6	7	4	5	6	6	5
127	6	5	6	5	5	6	6	6	8	7	8	5	5	4	5	5	6
128	6	5	6	6	5	5	7	6	7	6	7	7	4	4	5	6	6
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**Luminaire Report Summary**

IESNA:LM-63-2002  
[TEST]  
[TESTLAB] Shenzhen Belling Test Laboratory  
[ISSUE DATE] 2018-6-25 09:57  
[MANUFAC] SARIN Energy Inc.  
[LUMINAIRE] SES-LHB2-5700-110W 120V  
[\_TOTALLUMINAIRELUMENS] 13374.1  
[TESTINST] GPM-3000  
[TESTDIST] 17.398 M  
[TESTTEMPERATURE] 28.1 'C  
FILE: CANDELA MULTIPLIER: 1  
FILE: VERTICAL ANGLES: 181, HORIZONTAL ANGLES: 17  
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.