

Photometrics Pro

Luminaire Photometric Report

Filename: PHB08E - Linear High Bay - 300W - IES

Manufacturer: SARIN Energy Solutions

Lamp Output: 1 lamp, rated Lumens/lamp: 40729.2

Max Candela: 18,958.4 at Horizontal: 135°, Vertical: 1°

Input Wattage: 293.04

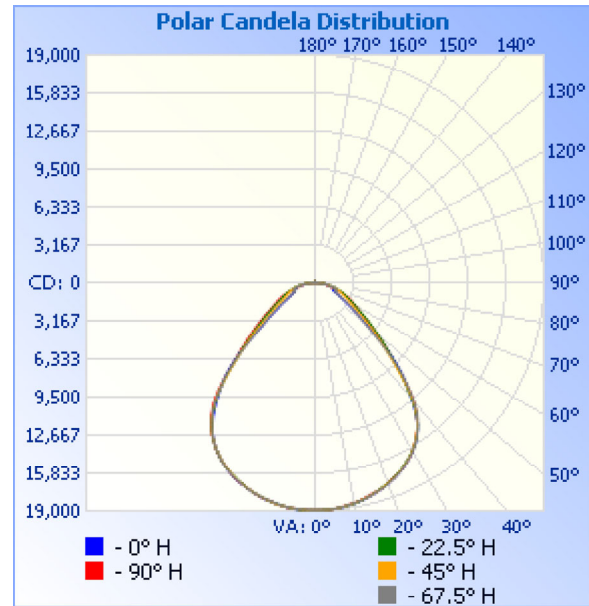
Luminous Opening: Rectangle (L: 22.83", W: 13.78")

Test: BLC2207035E-I

Test Lab: UTEST TECHNICAL LABORATORY

Photometry : Type C

Nema Type: 7 X 7



Roadway Summary

Cutoff Classification:	CUTOFF
Distribution:	Type VS
Max Cd, 90 Deg Vert:	30.1
Max Cd, 80 to <90 Deg:	1,252.6
	Lumens % Lamp
Downward Street Side:	20,260.4 49.7%
Downward House Side:	20,312.0 49.9%
Downward Total:	40,572.4 99.6%
Upward Street Side:	80.4 0.2%
Upward House Side:	76.4 0.2%
Upward Total:	156.8 0.4%
Total Lumens:	40,729.2 100%

Flood Summary

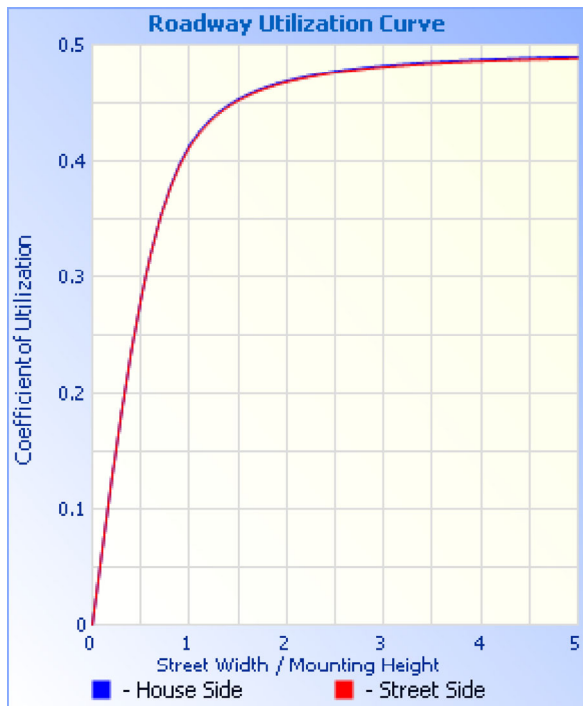
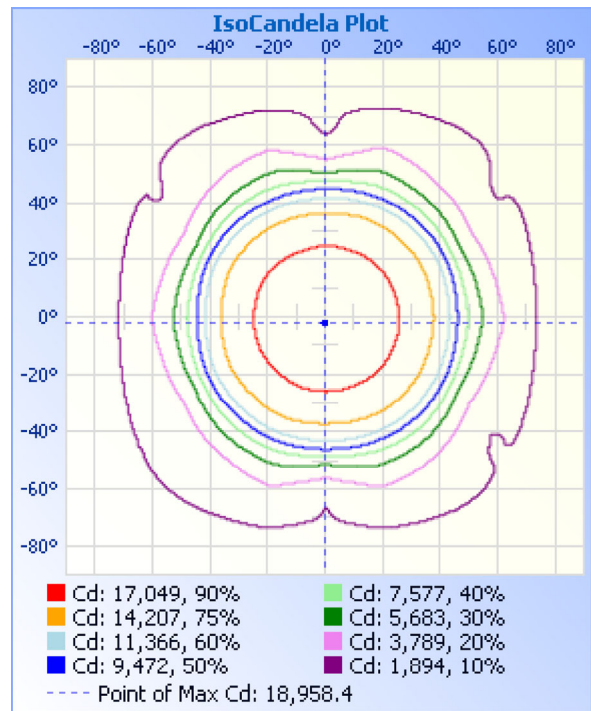
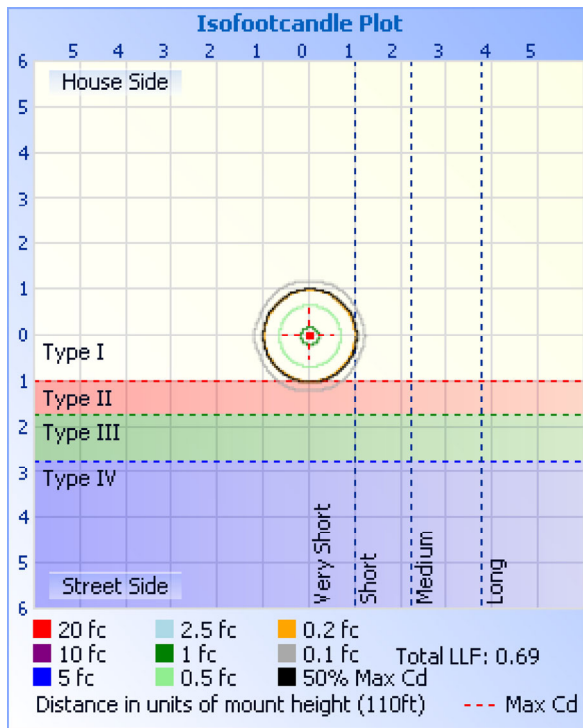
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	95.2%	38,758.1	145.2	130.4
Beam (50%):	69.4%	28,251.4	90.4	91
Total:	100%	40,712.0		

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	14,826.1	36.4%	36.4%
0-40	24,046.1	59%	59%
0-60	35,634.0	87.5%	87.5%
60-90	4,933.2	12.1%	12.1%
70-100	2,346.6	5.8%	5.8%
90-120	54.2	0.1%	0.1%
0-90	40,567.2	99.6%	99.6%
90-180	156.8	0.4%	0.4%
0-180	40,724.0	100%	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	1,794.7	4.4%	90-100	19.5	0%
10-20	5,160.1	12.7%	100-110	17.7	0%
20-30	7,871.4	19.3%	110-120	17.0	0%
30-40	9,220.0	22.6%	120-130	19.0	0%
40-50	7,373.8	18.1%	130-140	21.5	0.1%
50-60	4,214.0	10.3%	140-150	23.1	0.1%
60-70	2,606.0	6.4%	150-160	20.3	0%
70-80	1,772.8	4.4%	160-170	13.8	0%
80-90	554.4	1.4%	170-180	4.9	0%



Illuminance at a Distance

	Center Beam fc	Beam Width	
2.5R	3,031 fc	5.1 ft	5.0 ft
5.0R	758 fc	10.2 ft	10.1 ft
7.5R	337 fc	15.3 ft	15.1 ft
10.0R	189 fc	20.3 ft	20.2 ft
12.5R	121 fc	25.4 ft	25.2 ft
15.0R	84.2 fc	30.5 ft	30.2 ft

Vert. Spread: 91.0°
Horiz. Spread: 90.4°

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	1.10	1.06	1.02	.99	1.08	1.04	1.00	.87	1.00	.97	.94	.96	.93	.91	.92	.90	.89	.87
2	1.02	.95	.89	.84	.99	.93	.87	.76	.89	.85	.81	.86	.82	.79	.83	.80	.77	.75
3	.94	.85	.77	.72	.92	.83	.76	.67	.80	.74	.70	.77	.73	.69	.75	.71	.67	.65

4	.87	.76	.68	.62	.85	.75	.68	.59	.72	.66	.61	.70	.65	.60	.68	.63	.60	.58
5	.81	.69	.61	.55	.79	.68	.60	.53	.66	.59	.54	.64	.58	.54	.62	.57	.53	.51
6	.75	.63	.55	.49	.73	.62	.54	.47	.60	.53	.48	.59	.52	.48	.57	.52	.47	.46
7	.70	.58	.50	.44	.68	.57	.49	.43	.55	.48	.43	.54	.48	.43	.52	.47	.43	.41
8	.65	.53	.45	.40	.64	.52	.45	.39	.51	.44	.39	.50	.44	.39	.49	.43	.39	.37
9	.61	.49	.41	.36	.60	.48	.41	.35	.47	.40	.36	.46	.40	.36	.45	.39	.35	.34
10	.58	.45	.38	.33	.56	.45	.38	.32	.44	.37	.33	.43	.37	.33	.42	.36	.32	.31

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	18942	18942	18942	18942	18942	18942	18942	18942	18942	18942	18942	18942	18942	18942	18942	18942	18942
1	18946	18933	18942	18926	18934	18948	18958	18948	18946	18935	18945	18934	18943	18945	18946	18937	18946
2	18939	18918	18933	18931	18939	18953	18952	18954	18949	18936	18933	18915	18937	18938	18939	18938	18939
3	18929	18922	18926	18918	18936	18950	18934	18938	18937	18932	18918	18900	18919	18918	18925	18923	18929
4	18902	18902	18907	18903	18901	18912	18908	18918	18920	18916	18893	18882	18910	18888	18902	18904	18902
5	18879	18872	18886	18878	18872	18873	18877	18893	18896	18889	18879	18861	18870	18863	18876	18871	18879
6	18848	18845	18850	18836	18823	18831	18837	18866	18870	18856	18852	18838	18864	18836	18859	18847	18848
7	18820	18802	18806	18788	18772	18806	18785	18825	18831	18810	18819	18799	18829	18804	18809	18807	18820
8	18774	18753	18743	18730	18712	18749	18731	18788	18786	18767	18776	18759	18785	18774	18761	18745	18774
9	18714	18713	18692	18666	18657	18694	18672	18729	18723	18723	18735	18710	18740	18727	18700	18694	18714
10	18649	18655	18637	18611	18609	18633	18616	18665	18668	18669	18685	18641	18676	18645	18662	18635	18649
11	18598	18588	18563	18560	18552	18579	18548	18604	18609	18609	18605	18565	18593	18559	18609	18581	18598
12	18533	18513	18487	18506	18474	18531	18478	18526	18549	18537	18536	18496	18529	18474	18540	18506	18533
13	18473	18436	18422	18424	18385	18449	18403	18457	18486	18450	18464	18431	18470	18406	18459	18433	18473
14	18382	18347	18349	18346	18289	18364	18330	18383	18393	18374	18377	18369	18408	18345	18366	18350	18382
15	18300	18246	18268	18250	18197	18271	18249	18290	18308	18291	18286	18305	18325	18281	18271	18271	18300
16	18212	18144	18176	18164	18121	18189	18141	18212	18212	18207	18187	18210	18235	18199	18169	18180	18212
17	18105	18044	18088	18073	18052	18099	18023	18108	18122	18111	18092	18115	18115	18093	18080	18081	18105
18	17999	17936	17963	17988	17967	18009	17912	18007	18026	18001	18000	18010	18003	17972	17983	17977	17999
19	17887	17822	17855	17905	17850	17913	17802	17907	17924	17873	17888	17908	17897	17841	17882	17862	17887
20	17779	17719	17734	17785	17706	17805	17700	17807	17816	17769	17788	17782	17803	17730	17770	17750	17779
21	17651	17597	17622	17663	17560	17667	17590	17700	17697	17644	17664	17675	17712	17625	17642	17614	17651
22	17524	17460	17508	17531	17434	17533	17475	17562	17577	17516	17531	17565	17602	17508	17506	17477	17524
23	17394	17316	17373	17390	17322	17398	17334	17434	17446	17398	17385	17446	17470	17381	17366	17335	17394
24	17251	17169	17213	17241	17209	17269	17169	17297	17304	17268	17253	17304	17304	17244	17222	17202	17251
25	17099	17020	17051	17086	17071	17122	17015	17155	17157	17123	17124	17149	17116	17087	17064	17066	17099
26	16936	16860	16914	16921	16901	16958	16854	16989	16988	16979	16968	16980	16969	16928	16904	16922	16936
27	16756	16690	16751	16754	16720	16786	16695	16831	16812	16814	16787	16812	16815	16759	16720	16757	16756
28	16596	16516	16560	16572	16545	16615	16515	16652	16632	16634	16600	16625	16645	16579	16524	16586	16596
29	16384	16330	16356	16386	16353	16397	16290	16482	16441	16428	16415	16425	16458	16374	16342	16381	16384
30	16187	16125	16150	16201	16142	16193	16067	16291	16229	16219	16215	16213	16244	16172	16137	16181	16187
31	15955	15909	15911	15974	15892	15953	15848	16070	15996	16005	15999	16011	16022	15968	15920	15990	15955
32	15729	15685	15653	15721	15655	15705	15611	15818	15749	15781	15750	15759	15782	15752	15690	15750	15729
33	15448	15426	15389	15437	15391	15453	15328	15561	15494	15525	15508	15510	15541	15493	15426	15513	15448
34	15166	15141	15102	15170	15105	15187	15046	15291	15212	15260	15258	15240	15297	15230	15139	15242	15166
35	14851	14834	14789	14875	14808	14841	14747	14991	14886	14932	14956	14947	15011	14948	14848	14955	14851
36	14465	14453	14458	14540	14439	14509	14420	14660	14493	14603	14640	14618	14711	14644	14529	14603	14465
37	14023	14061	14088	14177	14069	14142	14061	14244	14111	14238	14292	14265	14368	14321	14171	14270	14023
38	13499	13595	13642	13775	13662	13740	13622	13820	13672	13828	13877	13889	14005	13944	13776	13830	13499
39	12985	13049	13136	13255	13209	13229	13163	13357	13190	13340	13447	13453	13566	13508	13343	13306	12985
40	12374	12434	12557	12727	12680	12701	12654	12841	12703	12859	12964	12953	13127	13063	12811	12749	12374
41	11858	11813	11869	12153	12070	12120	12073	12302	12218	12323	12412	12398	12586	12554	12257	12177	11858
42	11305	11198	11190	11487	11313	11502	11400	11732	11680	11756	11783	11767	12022	11909	11569	11530	11305
43	10800	10589	10410	10855	10633	10861	10618	11075	11189	11156	11025	11177	11339	11270	10859	10931	10800
44	10241	9968	9710	10172	9986	10120	9881	10424	10656	10452	10310	10554	10628	10586	10129	10233	10241
45	9630	9367	9098	9434	9330	9404	9183	9760	10018	9772	9619	9846	9911	9870	9401	9581	9630
46	8946	8794	8478	8634	8773	8647	8563	9051	9347	9098	8972	9124	9316	9103	8745	9017	8946

47	8282	8283	7933	7814	8278	7879	7993	8482	8619	8530	8407	8354	8728	8338	8118	8470	8282
48	7570	7829	7414	7016	7789	7165	7414	7952	7803	8005	7815	7546	8262	7622	7585	7996	7570
49	6778	7405	6961	6383	7331	6470	6922	7450	6985	7475	7320	6817	7766	6894	7114	7518	6778
50	6096	6985	6521	5828	6872	5929	6456	6938	6210	7042	6853	6147	7343	6293	6657	7102	6096
51	5556	6550	6087	5350	6467	5443	5987	6501	5634	6633	6389	5615	6932	5760	6213	6699	5556
52	5027	6198	5680	4953	6103	5026	5497	6126	5159	6257	5894	5171	6551	5315	5755	6342	5027
53	4628	5853	5259	4565	5743	4643	5070	5778	4735	5906	5452	4776	6207	4940	5357	5977	4628
54	4232	5528	4908	4245	5412	4259	4698	5451	4364	5543	5040	4410	5850	4566	4942	5658	4232
55	3898	5178	4593	3910	5070	3942	4364	5111	3988	5234	4684	4049	5534	4245	4600	5358	3898
56	3581	4895	4304	3648	4783	3648	4038	4836	3672	4940	4347	3744	5218	3935	4292	5056	3581
57	3291	4590	4051	3363	4527	3380	3773	4583	3388	4652	4091	3460	4911	3641	4046	4779	3291
58	3039	4343	3817	3112	4304	3125	3541	4348	3121	4409	3854	3196	4635	3384	3788	4539	3039
59	2809	4120	3629	2868	4089	2879	3334	4132	2856	4183	3646	2957	4373	3122	3587	4290	2809
60	2576	3900	3453	2662	3904	2664	3144	3926	2636	3955	3456	2731	4160	2897	3386	4088	2576
61	2381	3707	3296	2461	3740	2485	2963	3711	2444	3744	3253	2517	3958	2689	3222	3888	2381
62	2218	3521	3144	2310	3596	2318	2814	3524	2284	3525	3087	2348	3767	2492	3072	3686	2218
63	2052	3353	3005	2161	3456	2189	2682	3330	2132	3333	2939	2202	3608	2329	2934	3500	2052
64	1922	3194	2863	2039	3323	2084	2567	3167	2024	3161	2807	2058	3459	2179	2820	3313	1922
65	1803	3037	2748	1947	3179	2004	2482	3029	1934	3026	2694	1951	3311	2059	2705	3153	1803
66	1728	2919	2625	1884	3018	1954	2410	2906	1881	2914	2592	1867	3169	1956	2602	3019	1728
67	1678	2803	2530	1836	2854	1926	2354	2789	1851	2798	2517	1814	3002	1886	2507	2899	1678
68	1668	2681	2444	1818	2663	1914	2306	2664	1837	2698	2443	1790	2812	1832	2421	2780	1668
69	1677	2556	2340	1826	2482	1926	2250	2549	1830	2584	2366	1799	2636	1810	2333	2670	1677
70	1692	2419	2240	1841	2296	1941	2187	2433	1809	2456	2293	1826	2458	1807	2252	2538	1692
71	1693	2288	2139	1851	2110	1942	2112	2311	1749	2315	2208	1844	2272	1812	2173	2419	1693
72	1687	2141	2038	1845	1913	1928	2027	2188	1671	2189	2112	1852	2085	1822	2085	2284	1687
73	1656	2007	1930	1830	1736	1891	1933	2050	1624	2068	2005	1840	1913	1823	2000	2129	1656
74	1581	1871	1813	1799	1573	1830	1822	1927	1587	1950	1890	1806	1741	1817	1899	1978	1581
75	1474	1727	1694	1730	1423	1725	1714	1805	1564	1830	1777	1733	1570	1785	1792	1839	1474
76	1377	1585	1585	1634	1285	1608	1607	1679	1529	1719	1664	1638	1426	1734	1689	1689	1377
77	1308	1454	1474	1511	1161	1488	1499	1540	1463	1601	1553	1530	1299	1652	1563	1533	1308
78	1247	1335	1358	1364	1072	1360	1369	1421	1368	1482	1426	1407	1200	1537	1443	1400	1247
79	1188	1209	1246	1227	1004	1227	1251	1304	1249	1369	1301	1287	1122	1380	1320	1265	1188
80	1102	1115	1125	1068	944	1076	1124	1204	1097	1253	1186	1147	1054	1237	1193	1158	1102
81	962	1015	1017	918	871	924	1017	1107	959	1158	1076	988	989	1055	1077	1058	962
82	821	931	908	754	783	773	892	1011	822	1065	966	832	916	890	957	970	821
83	707	833	782	603	653	619	778	891	731	946	853	674	804	719	838	888	707
84	600	732	636	453	487	456	635	758	655	795	719	532	643	553	717	782	600
85	503	573	463	314	316	319	469	609	564	639	551	409	487	415	557	653	503
86	413	418	282	195	187	198	293	438	441	491	375	276	349	285	375	491	413
87	289	260	141	124	118	124	145	284	313	333	209	172	208	181	218	325	289
88	154	101	77	57	60	68	75	126	171	168	107	113	135	112	119	152	154
89	45	42	33	30	18	26	38	54	53	60	52	50	74	70	65	68	45
90	23	19	30	29	15	21	26	19	17	19	24	24	29	29	23	24	23
91	21	19	21	25	15	16	13	19	17	15	22	19	20	28	22	19	21
92	21	14	20	19	15	16	19	22	17	12	18	20	13	24	21	17	21
93	20	17	22	20	12	21	18	19	16	16	16	19	20	21	16	17	20
94	21	17	24	19	15	15	17	17	18	19	16	19	20	16	19	19	21
95	19	17	19	19	16	21	14	15	17	12	14	17	23	20	17	15	19

96	14	21	21	15	14	18	17	14	18	17	12	19	15	21	19	16	14
97	19	20	22	19	13	18	14	17	17	17	11	18	20	19	16	19	19
98	20	17	22	19	11	14	14	18	17	14	14	16	18	19	18	17	20
99	15	12	22	17	15	16	16	16	14	14	18	17	19	19	19	14	15
100	17	16	20	17	13	19	15	14	14	14	17	17	16	21	21	16	17
101	22	12	17	12	13	16	18	17	17	14	18	18	18	19	16	18	22
102	18	16	18	15	14	19	14	16	17	12	14	14	13	19	16	21	18
103	20	16	23	18	14	15	16	19	14	14	18	19	19	18	19	21	20
104	19	17	22	18	15	19	19	18	17	16	15	11	18	16	17	19	19
105	20	19	19	19	12	11	14	17	17	17	14	17	15	20	18	19	20
106	17	18	17	16	12	14	19	19	16	17	16	14	18	14	21	20	17
107	22	19	16	16	13	18	14	18	9	14	14	16	16	16	18	18	22
108	17	19	19	21	11	17	15	15	16	13	14	17	15	17	18	19	17
109	19	21	18	20	11	16	14	17	14	17	19	14	17	17	19	19	19
110	20	20	19	21	12	16	14	16	14	15	14	15	20	16	16	19	20
111	17	21	17	19	13	16	13	17	14	17	14	14	17	19	19	23	17
112	18	21	21	17	13	15	11	16	16	17	16	14	13	18	14	19	18
113	21	17	19	19	12	16	17	16	17	17	17	19	16	17	14	19	21
114	19	15	22	22	11	16	17	15	17	14	15	13	19	21	16	19	19
115	15	20	20	22	12	14	17	17	17	19	19	18	20	18	14	19	15
116	14	22	18	19	13	19	19	17	14	17	14	19	20	19	17	19	14
117	19	19	23	18	18	15	17	18	14	14	20	15	15	19	19	17	19
118	19	16	23	17	13	21	16	18	19	19	21	14	15	18	15	17	19
119	20	15	17	18	13	20	18	19	10	14	19	15	17	16	18	19	20
120	19	17	24	17	12	19	20	16	18	19	21	19	19	19	19	15	19
121	22	19	24	17	15	25	21	14	14	19	17	17	16	17	21	20	22
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179	45	45	44	51	47	50	54	57	53	38	47	52	50	46	48	54	45
180	48	51	50	53	44	47	53	50	49	48	51	50	46	54	49	49	48

Luminaire Report Summary

IESNA:LM-63-2002
[TEST] BLC2207035E-I
[TESTLAB] UTEST TECHNICAL LABORATORY
[ISSUE DATE] 2022/7/26 16:47
[MANUFAC] SARIN Energy Solutions
[_TOTALLUMINAIRELUMENS] 40724
[_VOLTAGE] 120.0 V
[_CURRENT] 2.444 A
[_POWERFACTOR] 0.999
[_THD] 4.86
[_TESTINST] GPM-3000
[_TESTDIST] 14.140 M [K=1.0000]
[_TESTTEMPERATURE] 25.3 'C
[_TESTHUMIDITY]
[_TESTOPERATOR]
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.