



Filename: HBG48LA175W25000LW30DMV50K

Manufacturer: TEXAS FLUORESCENTS

Lamp: LED Module

Lamp Output: Total luminaire Lumens: 21464.6

Max Candela: 7,353.4 at Horizontal: 350°, Vertical: 3°

Input Wattage: 177.8

Luminous Opening: Rectangle w/Luminous Sides (L: 46.46", W: 20.08", H: 3.54")

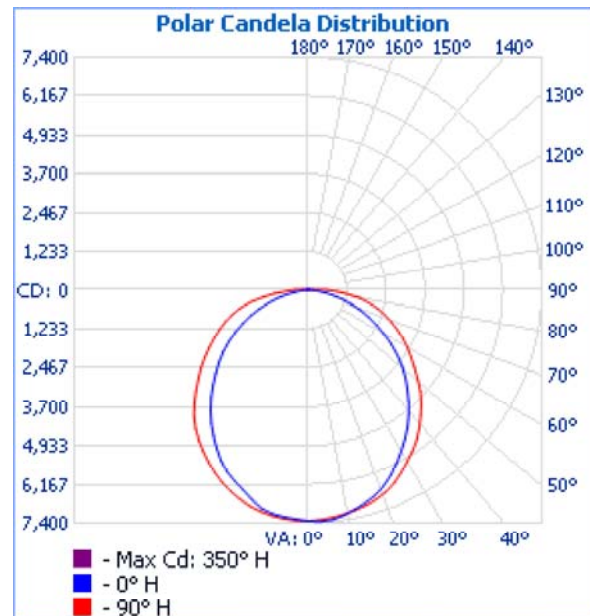
Test: HBG48LA175W25000LW30DMV50K

Test Date: 09-Jan-2018 10:36:27

Test Lab: Radiant Vision Systems ProSource

Photometry : Type C

Nema Type: 7 X 7



Roadway Summary

Cutoff Classification:	N/A	
Distribution:	Type VS	
Max Cd, 90 Deg Vert:	592.3	
Max Cd, 80 to <90 Deg:	1,668.4	
	Lumens	% Lamp
Downward Street Side:	10,803.8	50.3%
Downward House Side:	10,583.7	49.3%
Downward Total:	21,387.5	99.6%
Upward Street Side:	40.4	0.2%
Upward House Side:	40.6	0.2%
Upward Total:	81.0	0.4%
Total Lumens:	21,468.5	100%

Zonal Lumen Summary

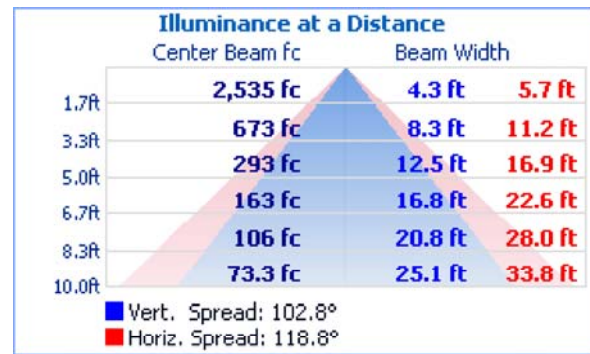
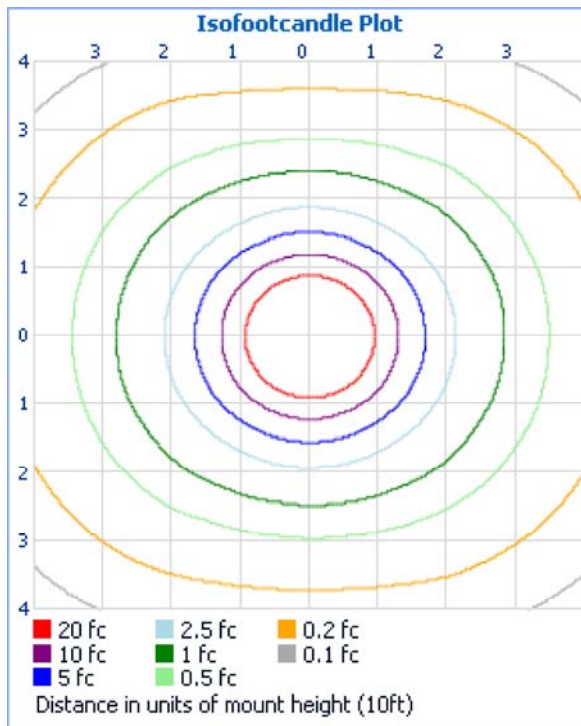
Zone	Lumens	% Luminaire
0-30	5,644.3	26.3%
0-40	9,186.8	42.8%
0-60	16,104.1	75%
60-90	5,279.5	24.6%
70-100	2,722.4	12.7%
90-120	81.0	0.4%
0-90	21,383.6	99.6%
90-180	81.0	0.4%
0-180	21,464.6	100%

Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	98.4%	21,122.1	175.2	156.8
Beam (50%):	68.3%	14,656.5	118.8	102.8
Total:	100%	21,460.5		

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	691.0	3.2%	90-100	80.9	0.4%
10-20	1,981.6	9.2%	100-110	0.1	0%
20-30	2,971.7	13.8%	110-120	0	0%
30-40	3,542.5	16.5%	120-130	0	0%
40-50	3,639.5	17.0%	130-140	0	0%
50-60	3,277.8	15.3%	140-150	0	0%
60-70	2,638.0	12.3%	150-160	0	0%
70-80	1,826.3	8.5%	160-170	0	0%
80-90	815.2	3.8%	170-180	0	0%



Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50				30				10				0
RW %:	<u>70</u>	<u>50</u>	<u>30</u>	<u>0</u>	<u>70</u>	<u>50</u>	<u>30</u>	<u>0</u>	<u>50</u>	<u>30</u>	<u>20</u>	<u>50</u>	<u>30</u>	<u>20</u>	<u>50</u>	<u>30</u>	<u>20</u>	<u>0</u>			
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	1.08	1.02	.98	.93	1.05	1.00	.96	.82	.96	.92	.89	.92	.89	.86	.88	.86	.83	.81			
2	.97	.89	.82	.75	.95	.87	.80	.68	.83	.78	.73	.80	.75	.71	.77	.73	.69	.67			
3	.89	.78	.69	.62	.86	.76	.68	.58	.73	.66	.61	.70	.64	.59	.67	.63	.58	.56			
4	.81	.69	.60	.53	.79	.67	.59	.50	.65	.57	.52	.62	.56	.51	.60	.55	.50	.48			
5	.75	.61	.52	.45	.72	.60	.52	.43	.58	.50	.44	.56	.49	.44	.54	.48	.43	.41			
6	.69	.55	.46	.40	.67	.54	.46	.38	.52	.45	.39	.51	.44	.39	.49	.43	.38	.36			
7	.64	.50	.41	.35	.62	.49	.41	.34	.48	.40	.34	.46	.39	.34	.45	.39	.34	.32			
8	.59	.46	.37	.31	.58	.45	.37	.30	.44	.36	.31	.42	.36	.31	.41	.35	.30	.28			
9	.56	.42	.34	.28	.54	.41	.33	.27	.40	.33	.28	.39	.32	.28	.38	.32	.27	.26			
10	.52	.39	.31	.25	.51	.38	.31	.25	.37	.30	.25	.36	.30	.25	.35	.29	.25	.23			

Candela Table - Type C

	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220
0	7325	7325	7325	7325	7325	7325	7325	7325	7325	7325	7325	7325	7325	7325	7325	7325	7325	7325	7325	7325	7325	7325	7325
3	7351	7347	7340	7331	7323	7314	7308	7304	7302	7302	7303	7305	7306	7305	7302	7299	7291	7287	7283	7279	7275	7282	7287
6	7329	7319	7307	7287	7267	7251	7244	7242	7247	7260	7277	7292	7306	7310	7305	7294	7276	7254	7238	7222	7215	7212	7217
9	7236	7225	7220	7200	7186	7178	7178	7182	7191	7204	7227	7251	7269	7269	7253	7228	7218	7198	7187	7168	7151	7135	7135
12	7110	7108	7116	7122	7129	7129	7134	7136	7136	7140	7153	7167	7169	7147	7120	7081	7071	7073	7080	7075	7072	7076	7076
15	6989	6986	7003	7017	7029	7042	7046	7056	7061	7070	7071	7065	7027	6981	6934	6921	6914	6881	6883	6904	6956	6993	7017
18	6851	6851	6833	6865	6879	6891	6896	6929	6967	6982	6980	6945	6885	6823	6796	6806	6765	6705	6663	6732	6790	6838	6861
21	6663	6659	6655	6701	6737	6736	6742	6806	6856	6861	6850	6807	6733	6670	6666	6675	6600	6516	6486	6560	6609	6616	6616
24	6429	6444	6471	6507	6573	6586	6586	6676	6716	6698	6674	6625	6539	6484	6462	6430	6370	6305	6305	6367	6396	6371	6371
27	6162	6231	6256	6293	6358	6392	6418	6496	6513	6489	6447	6413	6350	6285	6232	6186	6113	6074	6065	6123	6142	6182	6182
30	5888	5987	6006	6024	6071	6126	6215	6298	6283	6269	6214	6230	6156	6054	5980	5950	5887	5819	5786	5843	5885	5957	6017

33	5627	5684	5721	5745	5810	5884	5985	6066	6060	6066	6002	6014	5923	5825	5734	5699	5630	5544	5503	5570	5615	5676	5
36	5358	5353	5426	5482	5569	5654	5725	5804	5828	5852	5781	5750	5672	5592	5470	5412	5311	5255	5213	5289	5322	5381	5
39	5062	5055	5156	5177	5314	5407	5426	5545	5575	5599	5540	5494	5394	5318	5162	5048	4998	4971	4908	4977	5039	5058	5
42	4753	4766	4844	4898	5048	5119	5154	5283	5294	5328	5266	5219	5101	5004	4859	4749	4674	4672	4588	4645	4711	4777	4
45	4452	4455	4502	4595	4708	4793	4877	5013	5013	5062	4973	4933	4803	4734	4559	4468	4357	4344	4260	4321	4374	4496	4
48	4147	4125	4168	4279	4363	4473	4590	4693	4746	4782	4683	4653	4529	4441	4248	4167	4055	4005	3936	4004	4077	4201	4
51	3822	3806	3810	3969	4049	4178	4320	4345	4499	4468	4427	4368	4251	4095	3915	3825	3714	3686	3626	3696	3744	3860	4
54	3481	3472	3526	3616	3710	3887	4026	4072	4227	4156	4163	4096	3938	3783	3583	3417	3425	3343	3314	3356	3434	3443	3
57	3131	3140	3196	3288	3405	3593	3730	3817	3949	3880	3895	3804	3633	3494	3314	3098	3084	2987	2986	3006	3068	3115	3
60	2782	2803	2845	2943	3076	3289	3429	3531	3657	3625	3608	3510	3337	3189	3003	2813	2721	2637	2650	2662	2716	2811	3
63	2437	2469	2548	2621	2747	2975	3146	3254	3369	3364	3340	3249	3083	2882	2651	2524	2409	2320	2316	2337	2421	2523	2
66	2101	2128	2207	2337	2502	2712	2862	2996	3084	3098	3094	2994	2821	2610	2394	2225	2052	2004	1982	1998	2077	2248	2
69	1771	1799	1902	2029	2244	2461	2592	2744	2826	2829	2842	2725	2548	2353	2169	1897	1754	1672	1644	1654	1784	1935	2
72	1445	1477	1608	1772	1996	2203	2341	2496	2575	2562	2574	2452	2310	2120	1955	1644	1491	1336	1315	1327	1504	1675	1
75	1120	1156	1298	1531	1737	1958	2076	2214	2258	2292	2265	2165	2062	1904	1692	1420	1217	1029	1004	1026	1201	1441	1
78	810	854	1036	1310	1506	1684	1818	1896	1899	1986	1929	1874	1787	1648	1444	1216	931	757	711	752	949	1228	1
81	570	623	858	1124	1310	1451	1571	1644	1599	1668	1601	1602	1470	1371	1193	989	732	487	421	485	742	964	1
84	322	417	637	883	999	1110	1232	1284	1291	1292	1284	1245	1136	1042	889	752	525	310	208	316	518	689	1
87	139	241	387	518	677	744	840	855	925	927	891	796	757	690	573	459	312	155	60	155	253	338	1
90	43	100	189	248	328	400	450	495	558	592	477	469	447	348	297	222	140	57	9	27	79	160	1
93	1	7	31	56	73	101	104	154	133	139	135	175	150	123	100	81	47	13	2	6	34	81	1
96	0	1	3	2	4	5	6	15	11	9	16	17	13	10	11	7	7	3	0	0	3	5	1
99	0	0	1	0	1	1	1	1	2	1	2	1	0	0	0	0	0	0	0	0	0	0	1
102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
114	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
117	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
126	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
129	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
132	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
138	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
141	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
144	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
147	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
153	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
156	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
162	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
168	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
171	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
174	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
177	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

Luminaire Report Summary

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FILE: CREATED USING ABSOLUTE PHOTOMETRY
FILE: CANDELA MULTIPLIER: 1
FILE: VERTICAL ANGLES: 61, HORIZONTAL ANGLES: 37
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.