



Filename: BKAMW48LS48W4500LDMV40K

Manufacturer: TEXAS FLUORESCENTS

Lamp: LED

Lamp Output: Total luminaire Lumens: 3790.2

Max Candela: 955.9 at Horizontal: 270°, Vertical: 48°

Input Wattage: 46.5

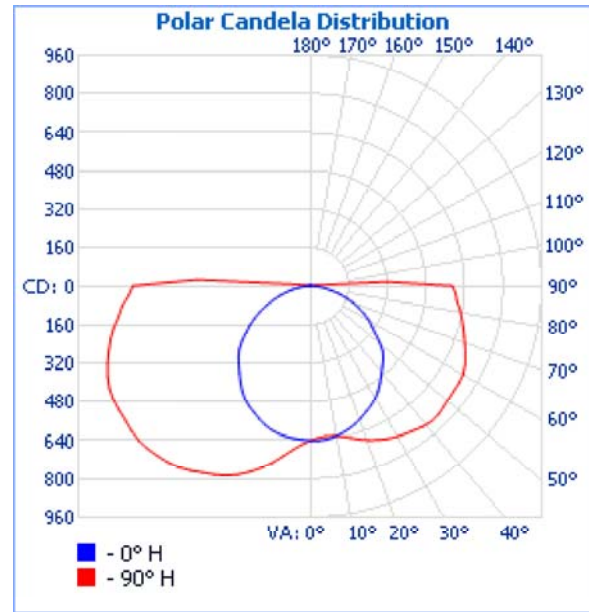
Luminous Opening: Rectangle w/Luminous Sides (L: 48.03", W: 5.51", H: 3.15")

Test: BKAMW48LS48W4500LDMV40K

Test Date: 14-Aug-2017 14:59:51

Test Lab: Radiant Vision Systems ProSource

Photometry : Type C



**Roadway Summary**

Cutoff Classification:	N/A	
Distribution:	TYPE III, SHORT	
Max Cd, 90 Deg Vert:	734.5	
Max Cd, 80 to <90 Deg:	803.4	
	Lumens % Lamp	
Downward Street Side:	1,834.4	48.4%
Downward House Side:	1,800.1	47.5%
Downward Total:	3,634.5	95.9%
Upward Street Side:	76.4	2%
Upward House Side:	79.5	2.1%
Upward Total:	155.9	4.1%
Total Lumens:	3,790.3	100%

**Flood Summary**

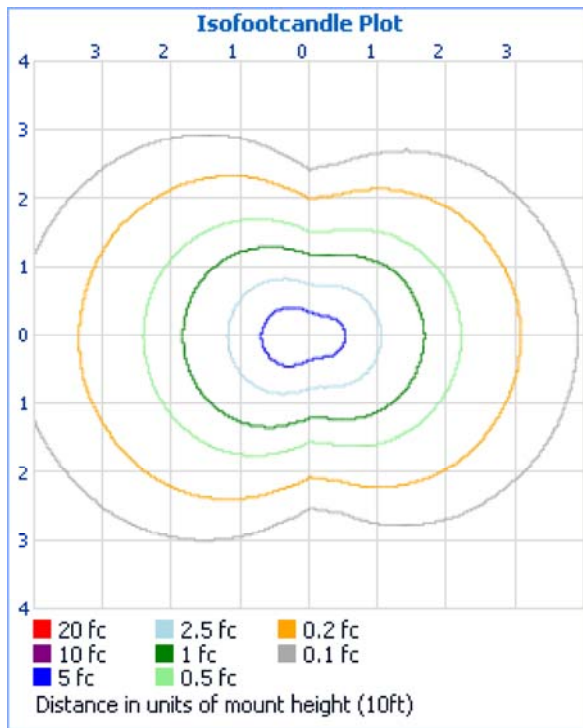
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	99.4%	3,767.1	n/a	196.3
Beam (50%):	82.6%	3,132.1	n/a	180.9
Total:	100%	3,791.3		

**Zonal Lumen Summary**

Zone	Lumens	% Luminaire
0-30	569.1	15%
0-40	1,000.6	26.4%
0-60	2,083.4	55%
60-90	1,550.9	40.9%
70-100	1,141.0	30.1%
90-120	155.9	4.1%
0-90	3,634.3	95.9%
90-180	155.9	4.1%
0-180	3,790.2	100%

**Lumens Per Zone**

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	61.7	1.6%	90-100	155.6	4.1%
10-20	190.0	5.0%	100-110	0.3	0%
20-30	317.3	8.4%	110-120	0	0%
30-40	431.5	11.4%	120-130	0	0%
40-50	518.8	13.7%	130-140	0	0%
50-60	564.0	14.9%	140-150	0	0%
60-70	565.5	14.9%	150-160	0	0%
70-80	524.5	13.8%	160-170	0	0%
80-90	460.9	12.2%	170-180	0	0%



	Center Beam fc	Beam Width
1.7ft	<b>222 fc</b>	
3.3ft	<b>58.8 fc</b>	
5.0ft	<b>25.6 fc</b>	
6.7ft	<b>14.3 fc</b>	
8.3ft	<b>9.29 fc</b>	
10.0ft	<b>6.40 fc</b>	

**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	1.18	1.18	1.18	1.18	1.15	1.15	1.15	.96	1.09	1.09	1.09	1.03	1.03	1.03	.98	.98	.98	.96
1	1.02	.95	.88	.83	.99	.92	.86	.70	.87	.82	.77	.82	.78	.74	.78	.74	.71	.68
2	.91	.80	.70	.63	.87	.77	.69	.54	.73	.66	.59	.69	.63	.57	.65	.60	.55	.53
3	.81	.68	.58	.50	.78	.66	.57	.44	.62	.54	.47	.59	.52	.46	.55	.50	.45	.42
4	.74	.59	.49	.41	.71	.57	.48	.36	.54	.46	.39	.51	.44	.38	.48	.42	.37	.34
5	.67	.52	.42	.34	.65	.51	.41	.31	.48	.39	.33	.45	.38	.32	.43	.36	.31	.28
6	.62	.46	.36	.29	.59	.45	.36	.26	.43	.34	.28	.41	.33	.27	.39	.32	.27	.24
7	.57	.42	.32	.25	.55	.41	.31	.23	.39	.30	.24	.37	.29	.24	.35	.28	.23	.21
8	.53	.38	.28	.22	.51	.37	.28	.20	.35	.27	.21	.33	.26	.21	.32	.25	.20	.18
9	.49	.34	.25	.19	.47	.34	.25	.18	.32	.24	.19	.31	.24	.18	.29	.23	.18	.16
10	.46	.32	.23	.17	.44	.31	.23	.16	.30	.22	.17	.28	.21	.17	.27	.21	.16	.14

**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	230	240	250	260	2	
0	640	640	640	640	640	640	640	640	640	640	640	640	640	640	640	640	640	640	640	640	640	640	640	640	640	640	640	640	6
3	642	639	636	634	632	631	630	630	630	630	630	630	630	630	631	632	633	635	638	641	644	647	650	653	655	656	657	657	6
6	640	633	628	624	621	620	621	622	624	625	626	626	625	624	624	624	626	629	635	642	651	660	668	674	678	680	681	681	6
9	633	625	618	614	612	613	616	621	625	628	629	627	624	621	619	618	619	623	631	642	657	672	688	699	706	710	712	712	7
12	624	615	610	609	611	614	620	628	634	637	637	633	626	619	614	611	612	616	626	639	657	678	699	716	729	739	745	745	7
15	613	605	605	608	615	624	633	643	650	652	652	645	633	620	610	603	601	605	617	633	655	682	710	735	754	767	778	778	7
18	601	594	596	605	617	632	647	662	667	668	668	662	645	625	609	596	587	591	604	626	652	687	721	755	780	796	806	806	8
21	586	579	585	598	619	640	656	673	681	684	684	675	655	633	613	592	575	574	589	616	651	691	730	769	799	817	830	830	8
24	570	563	572	590	624	652	669	683	691	697	697	686	664	641	615	583	562	557	573	606	647	689	732	776	811	832	849	849	8
27	555	546	559	586	629	662	683	696	702	710	710	694	671	646	614	574	546	539	557	592	635	686	735	780	819	844	870	870	8
30	539	528	550	582	623	663	691	708	714	720	721	700	680	652	613	567	533	520	540	573	624	682	740	791	829	856	890	890	8

33	518	509	538	575	616	660	691	718	724	728	728	706	692	660	615	564	519	501	517	555	613	681	744	806	844	869	903	9	
36	494	491	522	569	615	661	692	725	731	737	732	714	696	657	616	564	507	481	491	539	608	684	749	814	857	887	911	9	
39	469	471	509	559	615	665	697	728	737	747	736	718	691	647	605	554	498	458	465	521	604	680	744	814	864	900	921	9	
42	448	450	495	549	610	664	699	726	741	754	740	720	684	642	596	535	484	434	442	499	590	665	737	808	863	907	932	9	
45	429	426	480	538	600	656	697	724	742	752	742	719	680	643	591	512	458	413	420	476	570	643	733	805	859	908	939	9	
48	405	403	464	527	589	643	692	722	742	745	742	717	677	639	585	497	446	392	395	453	549	627	731	803	857	909	941	9	
51	371	383	443	515	579	632	686	718	742	739	739	714	674	628	568	491	422	369	364	434	523	618	718	797	858	908	940	9	
54	335	359	427	494	569	627	679	708	739	736	732	707	668	620	545	477	399	344	330	413	500	598	692	792	857	906	936	9	
57	306	334	405	475	558	616	667	698	729	735	725	695	660	607	531	454	373	319	298	387	474	576	679	778	844	898	929	9	
60	280	309	378	455	537	600	651	689	716	732	716	682	651	587	517	428	355	292	267	353	452	552	666	755	830	887	921	9	
63	251	282	357	438	511	585	636	677	706	720	705	674	636	564	494	410	340	266	233	321	433	532	634	732	816	875	912	9	
66	220	249	334	421	494	571	624	661	697	704	692	663	613	548	473	397	313	236	199	287	402	514	609	716	801	861	900	9	
69	189	218	311	396	478	552	608	643	683	687	678	644	594	533	455	375	286	206	166	255	372	486	591	693	783	843	878	9	
72	156	191	285	370	461	527	588	631	664	671	664	625	578	514	441	354	263	175	133	224	343	457	573	662	759	821	852	8	
75	122	164	259	348	435	507	569	621	644	657	647	609	560	500	418	332	240	146	102	190	313	430	543	642	731	794	831	8	
78	89	138	234	330	414	489	551	599	628	642	629	591	539	482	398	312	216	120	72	157	283	406	517	622	704	766	813	8	
81	61	114	216	312	398	472	536	583	614	630	615	574	517	454	374	288	192	91	44	126	259	379	486	584	673	742	783	8	
84	36	94	196	297	377	454	524	573	599	611	601	567	509	443	361	276	172	74	24	103	233	360	466	565	653	728	755	7	
87	19	78	178	275	373	447	524	565	593	604	592	555	514	429	358	263	157	61	11	83	210	325	442	545	626	678	734	7	
90	9	70	170	262	366	441	501	573	587	590	575	553	502	426	350	256	154	55	5	69	187	310	417	512	590	653	707	7	
93	1	35	94	150	187	237	265	339	306	317	320	338	295	256	211	172	105	31	1	40	128	221	280	363	413	471	442	4	
96	0	4	8	9	18	20	22	30	42	24	50	36	33	38	33	21	17	6	0	7	22	30	51	60	62	73	74		
99	0	1	2	3	3	3	4	3	13	2	16	2	2	3	3	0	0	2	0	2	1	1	5	5	6	9	25		
102	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	0	0	0	
105	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	0	0	0	
108	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	0	0	0	
111	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	0	0	0	
114	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	0	0	0	
117	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	0	0	0	
120	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	0	0	0	
123	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	0	0	0	
126	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	0	0	0	
129	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	0	0	0	
132	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	0	0	0	
135	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	0	0	0	
138	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	0	0	0	
141	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	0	0	0	
144	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	0	0	0	
147	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	0	0	0	
150	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	0	0	0	
153	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	0	0	0	
156	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	0	0	0	
159	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	0	0	0	
162	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	0	0	0	
165	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	0	0	0	
168	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	0	0	0	
171	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	0	0	0	
174	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	0	0	0	
177	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	0	0	0	

180 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**Luminaire Report Summary**

IESNA:LM-63-2002  
 [TEST] BKAMW48LS48W4500LDMV40K  
 [TESTDATE] 14-Aug-2017 14:59:51  
 [TESTLAB] Radiant Vision Systems ProSource  
 [ISSUE DATE] 8/14/2017 3:52:32 PM  
 [MANUFAC] TEXAS FLUORESCENTS  
 [LAMP] LED  
 [\_TOTALLUMINAIRELUMENS] 3790.2  
 [\_NUMBEROF RAYS]10000000  
 [DRIVER TYPE] OSRAM OT50 DRIVER  
 [BOARD TYPE] LUMA SMART "S"  
 [COLOR TEMP] 4000K  
 [LUMEN/WATT] 81  
 [CRI] 84.4  
 [OTHER] Absolute Photometry measurement

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.