



Filename: BKAMW24LS24W2250LDMV40K

Manufacturer: TEXAS FLUORESCENTS

Lamp: LED Module

Lamp Output: Total Luminaire Lumens: 1853

Max Candela: 488.7 at Horizontal: 270°, Vertical: 45°

Input Wattage: 23.9

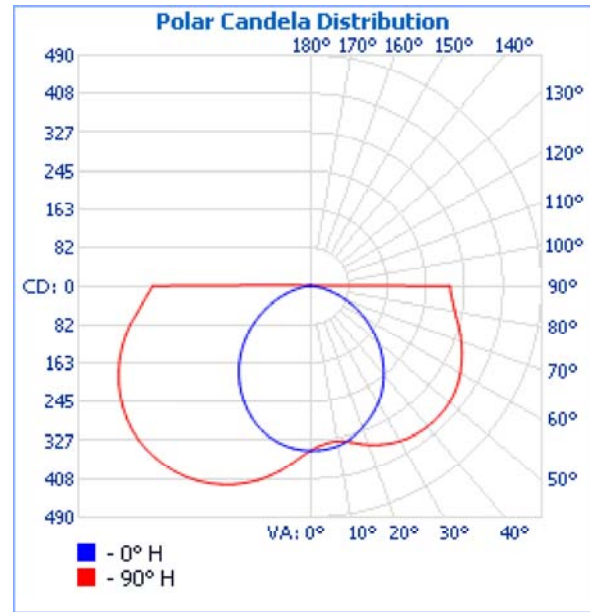
Luminous Opening: Rectangle w/Luminous Sides (L: 24.02", W: 3.15", H: 5.51")

Test: BKAMW24LS24W2250LDMV40K

Test Date: 15-Aug-2017 06:41:14

Test Lab: Radiant Vision Systems ProSource

Photometry : Type C



Roadway Summary

Cutoff Classification:	N/A	
Distribution:	TYPE II, VERY SHORT	
Max Cd, 90 Deg Vert:	333.0	
Max Cd, 80 to <90 Deg:	371.3	
	Lumens % Lamp	
Downward Street Side:	919.5	49.6%
Downward House Side:	898.6	48.5%
Downward Total:	1,818.0	98.1%
Upward Street Side:	17.4	0.9%
Upward House Side:	17.7	1%
Upward Total:	35.1	1.9%
Total Lumens:	1,853.2	100%

Flood Summary

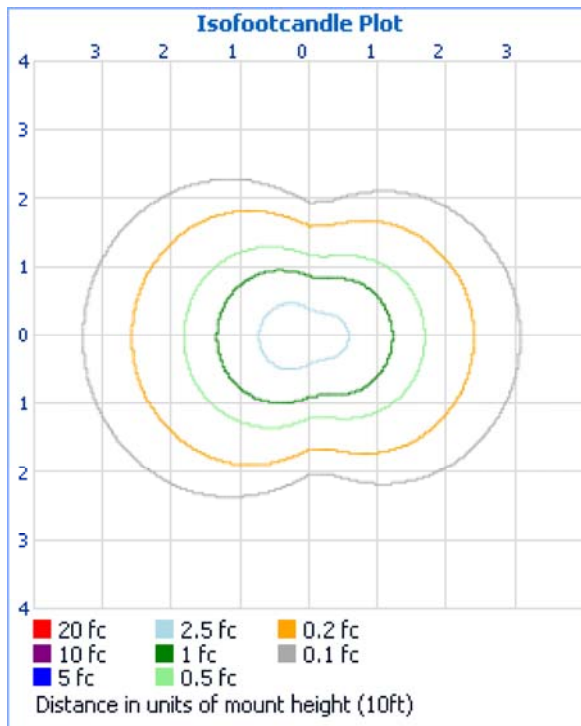
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	99.3%	1,840.8	n/a	187.4
Beam (50%):	82.7%	1,531.8	n/a	161.9
Total:	100%	1,853.2		

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	304.5	16.4%
0-40	530.5	28.6%
0-60	1,080.0	58.3%
60-90	737.9	39.8%
70-100	496.8	26.8%
90-120	35.1	1.9%
0-90	1,817.9	98.1%
90-180	35.1	1.9%
0-180	1,853.0	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	33.5	1.8%	90-100	35.1	1.9%
10-20	102.2	5.5%	100-110	0.0	0%
20-30	168.8	9.1%	110-120	0	0%
30-40	226.0	12.2%	120-130	0	0%
40-50	266.5	14.4%	130-140	0	0%
50-60	283.0	15.3%	140-150	0	0%
60-70	276.2	14.9%	150-160	0	0%
70-80	249.5	13.5%	160-170	0	0%
80-90	212.2	11.5%	170-180	0	0%



	Center Beam fc	Beam Width
1.7R	120 fc	21.4 ft
3.3R	31.9 fc	41.5 ft
5.0R	13.9 fc	62.9 ft
6.7R	7.75 fc	84.4 ft
8.3R	5.05 fc	104.5 ft
10.0R	3.48 fc	125.9 ft

■ Beam Spread: 161.9°

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	0	50	30	20	0	50	30	20	0	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	.98	1.10	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.98
1	1.03	.96	.90	.84	1.00	.93	.88	.72	.89	.84	.79	.79	.84	.80	.76	.76	.80	.77	.74	.74	.74	.71	.68	.71
2	.92	.81	.72	.64	.88	.79	.70	.57	.74	.67	.61	.61	.71	.65	.60	.60	.67	.62	.58	.58	.58	.55	.52	.55
3	.82	.69	.59	.51	.79	.67	.58	.46	.64	.56	.49	.49	.61	.54	.48	.48	.58	.52	.47	.47	.47	.44	.41	.44
4	.75	.60	.50	.42	.72	.59	.49	.38	.56	.47	.40	.40	.53	.46	.40	.40	.51	.44	.39	.39	.39	.36	.33	.36
5	.68	.53	.43	.35	.66	.52	.42	.33	.49	.41	.34	.34	.47	.39	.33	.33	.45	.38	.33	.33	.33	.30	.27	.30
6	.63	.47	.37	.30	.60	.46	.37	.28	.44	.36	.29	.29	.42	.35	.29	.29	.40	.34	.28	.28	.28	.26	.23	.26
7	.58	.43	.33	.26	.56	.42	.32	.25	.40	.31	.25	.25	.38	.31	.25	.25	.37	.30	.25	.25	.25	.22	.19	.22
8	.54	.39	.29	.23	.52	.38	.29	.22	.36	.28	.22	.22	.35	.27	.22	.22	.33	.27	.22	.22	.22	.20	.17	.20
9	.50	.35	.26	.20	.48	.35	.26	.19	.33	.25	.20	.20	.32	.25	.20	.20	.31	.24	.19	.19	.19	.17	.14	.17
10	.47	.32	.24	.18	.45	.32	.24	.17	.31	.23	.18	.18	.30	.23	.18	.18	.28	.22	.17	.17	.17	.15	.12	.15

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	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	3
3	348	346	344	343	342	341	340	339	339	339	339	339	339	340	341	342	343	345	347	349	351	354	356	358	359	361	362	362	3
6	346	343	340	338	337	336	335	335	334	334	334	334	334	334	335	337	339	341	345	349	354	359	364	369	372	375	377	377	3
9	344	339	335	333	332	332	332	332	332	332	332	331	331	330	330	330	333	336	341	348	356	364	373	380	386	391	394	394	3
12	340	333	329	327	328	330	332	334	334	335	334	332	330	328	326	325	326	330	336	346	357	368	379	389	398	406	410	410	4
15	334	326	323	322	325	330	334	339	341	342	341	337	333	328	322	319	319	322	330	342	357	372	386	399	410	419	424	424	4
18	326	318	316	318	323	332	340	346	350	351	349	345	338	329	320	314	312	315	323	338	355	374	391	408	421	431	436	436	4
21	317	309	309	314	324	335	345	353	358	360	357	352	343	332	320	310	304	305	314	332	353	376	396	414	429	440	447	447	4
24	308	300	301	308	323	338	351	360	365	367	365	358	348	335	319	304	296	295	304	324	349	373	398	419	436	449	457	457	4
27	298	290	292	304	323	339	354	365	371	373	371	364	352	337	320	301	287	283	293	316	342	371	399	421	440	455	465	465	4
30	287	278	283	300	322	340	357	369	376	378	376	368	356	339	319	297	280	272	280	306	337	367	397	422	444	460	472	472	4

33	275	266	275	295	319	341	359	372	380	383	380	370	357	339	317	293	271	260	267	295	330	363	394	424	447	465	477	4	
36	262	254	266	291	318	341	360	375	383	385	382	372	358	338	314	288	261	247	254	285	322	359	393	423	449	468	481	4	
39	247	241	259	286	315	341	361	376	384	387	383	372	357	335	309	279	251	234	240	273	314	352	390	422	449	469	483	4	
42	232	227	249	280	312	338	359	375	385	388	383	371	355	331	305	272	240	220	224	261	303	345	386	419	448	469	483	4	
45	217	214	239	273	306	333	357	373	384	387	382	370	352	327	298	265	230	206	208	248	290	336	379	415	446	468	482	4	
48	201	200	229	265	299	328	353	372	383	386	380	368	349	322	292	257	220	192	192	233	278	326	370	408	441	465	480	4	
51	184	186	217	256	292	323	349	369	380	383	378	365	345	316	285	248	209	179	175	218	265	315	360	400	435	461	477	4	
54	166	172	207	244	283	317	343	364	375	379	374	360	339	309	275	236	199	164	158	201	253	301	349	392	427	455	472	4	
57	149	157	194	235	275	310	337	358	370	373	368	355	332	301	267	227	186	150	140	184	236	289	339	383	419	448	465	4	
60	132	141	180	224	265	302	330	351	363	367	361	348	324	294	258	217	172	134	122	166	219	276	327	373	410	439	456	4	
63	115	125	168	213	253	292	321	343	355	359	354	340	316	285	247	206	161	120	105	149	205	262	312	361	399	428	446	4	
66	98	111	154	201	244	282	311	334	347	351	346	331	306	275	238	195	147	105	88	131	187	247	300	348	387	416	435	4	
69	80	96	141	187	232	271	301	325	339	343	337	323	297	266	226	181	133	89	70	112	171	229	285	334	374	404	423	4	
72	63	80	129	176	222	260	292	317	330	334	329	314	289	255	217	170	122	74	53	94	155	215	271	319	361	392	410	4	
75	46	66	115	165	210	252	282	307	320	325	320	305	279	247	206	159	109	61	38	77	138	200	256	307	345	378	395	4	
78	33	53	101	153	200	241	269	295	311	316	310	293	266	236	195	148	97	48	23	61	121	183	241	290	327	359	381	3	
81	20	42	93	144	191	232	261	288	305	309	304	284	256	225	184	136	86	36	12	46	107	167	223	272	309	342	364	3	
84	9	35	84	138	184	225	260	284	299	303	297	280	255	221	177	132	79	30	4	37	93	157	210	260	302	330	349	3	
87	3	29	80	132	179	218	255	278	294	298	290	272	248	212	171	124	74	26	1	28	83	142	195	241	282	311	334	3	
90	1	26	72	118	160	199	233	254	275	296	271	243	222	187	149	110	64	23	0	22	66	112	151	190	232	251	295	3	
93	0	1	6	9	7	11	17	23	12	15	14	30	24	20	16	18	11	2	0	3	14	25	28	39	48	59	39		
96	0	0	1	1	0	0	3	5	1	2	1	7	5	1	1	3	3	0	0	0	4	4	3	3	10	14	3		
99	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0		
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	
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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	
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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	
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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 |

Luminaire Report Summary

IESNA:LM-63-2002
[TEST] BKAMW24LS24W2250LDMV40K
[TESTDATE] 15-Aug-2017 06:41:14
[TESTLAB] Radiant Vision Systems ProSource
[ISSUEDATE] 8/15/2017 7:46:07 AM
[MANUFAC] TEXAS FLUORESCENTS
[LAMP] LED Module
[_TOTALLUMINAIRELUMENS] 1853
[NUMBEROFRAYS]10000000
[DRIVER TYPE] OSRAM OT50
[BOARD TYPE] LUMA SMART
[COLOR TEMP] 4000K
[LUMEN/WATT] 77
[CRI] 84.3
[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.