



Filename: HBCA96LN288W40000LA10DMV50K

Manufacturer: TEXAS FLUORESCENTS

Lamp: LED Module

Lamp Output: Total luminaire Lumens: 34737.7

Max Candela: 11,204.6 at Horizontal: 150°, Vertical: 3°

Input Wattage: 291

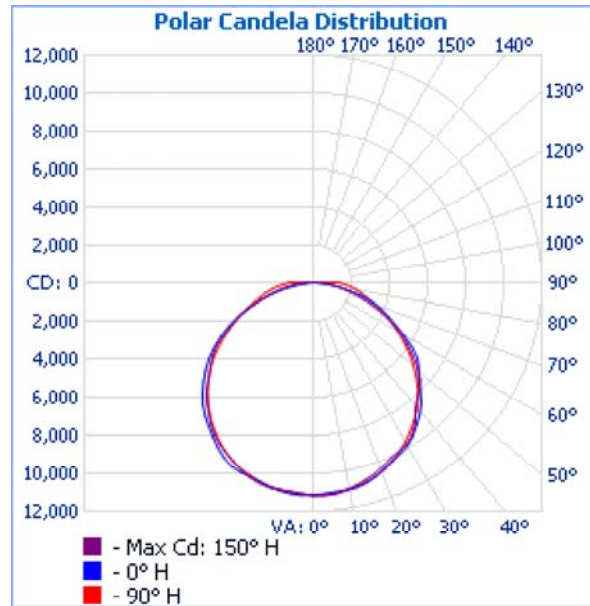
Luminous Opening: Rectangle w/Luminous Sides (L: 96.06", W: 7.09", H: 3.15")

Test: HBCA96LN288W40000LA10DMV50K

Test Date: 04-Jan-2018 12:54:21

Test Lab: Radiant Vision Systems ProSource

Photometry : Type C



Roadway Summary

Cutoff Classification:	N/A	
Distribution:	Type VS	
Max Cd, 90 Deg Vert:	1,372.5	
Max Cd, 80 to <90 Deg:	2,339.2	
	Lumens	% Lamp
Downward Street Side:	17,423.8	50.2%
Downward House Side:	17,124.2	49.3%
Downward Total:	34,548.0	99.5%
Upward Street Side:	95.8	0.3%
Upward House Side:	99.7	0.3%
Upward Total:	195.5	0.6%
Total Lumens:	34,743.5	100%

Flood Summary

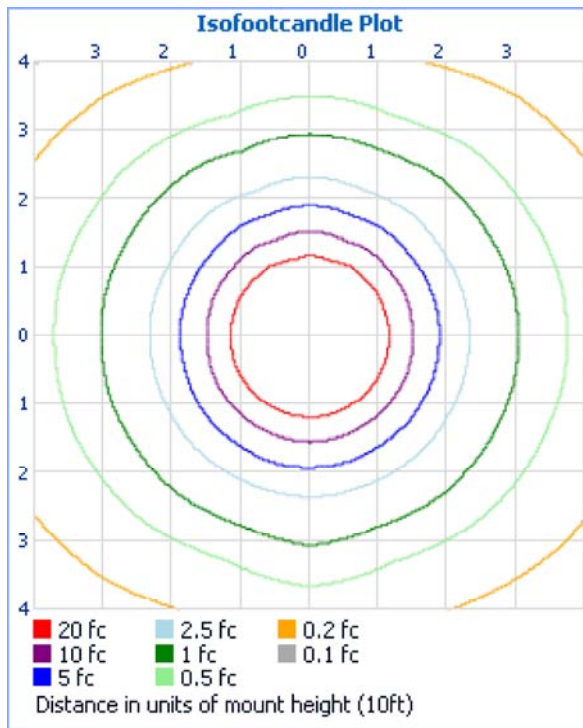
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	98.6%	34,260.5	n/a	162.3
Beam (50%):	73%	25,363.5	115.4	119.1
Total:	100%	34,734.1		

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	8,799.7	25.3%
0-40	14,528.4	41.8%
0-60	26,139.8	75.2%
60-90	8,402.4	24.2%
70-100	4,287.0	12.3%
90-120	195.5	0.6%
0-90	34,542.2	99.4%
90-180	195.5	0.6%
0-180	34,737.7	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	1,056.2	3.0%	90-100	195.3	0.6%
10-20	3,060.7	8.8%	100-110	0.2	0%
20-30	4,682.9	13.5%	110-120	0	0%
30-40	5,728.7	16.5%	120-130	0	0%
40-50	6,065.6	17.5%	130-140	0	0%
50-60	5,545.8	16.0%	140-150	0	0%
60-70	4,310.7	12.4%	150-160	0	0%
70-80	2,736.6	7.9%	160-170	0	0%
80-90	1,355.1	3.9%	170-180	0	0%



	Center Beam fc	Beam Width	
1.7ft	3,868 fc	5.8 ft	5.4 ft
3.3ft	1,027 fc	11.2 ft	10.4 ft
5.0ft	447 fc	17.0 ft	15.8 ft
6.7ft	249 fc	22.8 ft	21.2 ft
8.3ft	162 fc	28.2 ft	26.3 ft
10.0ft	112 fc	34.0 ft	31.7 ft

■ Vert. Spread: 119.1°
■ Horiz. Spread: 115.4°

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	50	30	20	0		
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	.99	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.99						
1	1.08	1.02	.98	.93	1.05	1.00	.96	.82	.96	.92	.89	.92	.89	.86	.88	.85	.83	.81						
2	.97	.89	.81	.75	.95	.87	.80	.68	.83	.77	.73	.80	.75	.71	.76	.73	.69	.67						
3	.89	.78	.69	.62	.86	.76	.68	.58	.73	.66	.60	.70	.64	.59	.67	.62	.58	.56						
4	.81	.69	.59	.52	.79	.67	.59	.49	.65	.57	.51	.62	.56	.50	.60	.54	.50	.47						
5	.74	.61	.52	.45	.72	.60	.51	.43	.58	.50	.44	.56	.49	.44	.54	.48	.43	.41						
6	.69	.55	.46	.39	.67	.54	.45	.38	.52	.44	.39	.50	.43	.38	.49	.42	.38	.36						
7	.64	.50	.41	.34	.62	.49	.40	.33	.47	.40	.34	.46	.39	.34	.44	.38	.33	.31						
8	.59	.45	.37	.31	.57	.45	.36	.30	.43	.36	.30	.42	.35	.30	.41	.34	.30	.28						
9	.55	.42	.33	.28	.54	.41	.33	.27	.40	.32	.27	.39	.32	.27	.37	.31	.27	.25						
10	.52	.38	.30	.25	.50	.38	.30	.24	.37	.30	.25	.36	.29	.25	.35	.29	.24	.23						

Candela Table - Type C

	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	1
0	11179	11179	11179	11179	11179	11179	11179	11179	11179	11179	11179	11179	11179	11179	11179	11179	11179	11179	11179
3	11116	11120	11122	11135	11137	11144	11153	11161	11168	11176	11183	11190	11197	11202	11204	11205	11203	11200	11
6	11057	11060	11069	11077	11081	11086	11094	11101	11109	11123	11140	11156	11172	11180	11183	11182	11175	11162	11
9	11038	11022	11007	10992	10995	11000	11005	11011	11021	11035	11057	11078	11094	11094	11079	11057	11060	11057	11
12	11002	10967	10930	10903	10907	10908	10905	10905	10916	10928	10939	10949	10957	10944	10919	10879	10882	10912	10
15	10883	10886	10880	10839	10818	10816	10806	10811	10815	10811	10789	10776	10760	10745	10704	10701	10744	10784	10
18	10685	10770	10803	10749	10693	10681	10669	10683	10691	10664	10624	10572	10542	10527	10492	10518	10588	10680	10
21	10441	10527	10597	10557	10509	10487	10472	10479	10476	10470	10436	10394	10363	10354	10319	10290	10341	10506	10
24	10217	10232	10286	10267	10282	10281	10233	10205	10195	10226	10234	10227	10213	10222	10190	10044	10017	10215	10
27	10056	10006	9966	10010	10035	10046	9992	9937	9921	9942	9993	9997	10000	10012	10058	9908	9843	9910	10
30	9872	9762	9684	9780	9740	9726	9681	9675	9663	9637	9699	9672	9622	9592	9744	9773	9534	9578	9

33	9581	9394	9453	9571	9446	9408	9328	9344	9363	9324	9319	9289	9201	9168	9301	9528	9349	9138	9
36	9237	8974	9238	9228	9052	9094	9012	9001	9007	8992	8912	8985	8885	8885	8826	9106	9113	8662	9
39	8897	8598	8910	8645	8629	8720	8657	8654	8631	8626	8566	8669	8558	8660	8491	8530	8805	8265	9
42	8485	8280	8453	8212	8331	8283	8233	8207	8210	8216	8195	8178	8137	8284	8201	8156	8372	7912	8
45	7950	8037	8004	7813	8017	7842	7771	7730	7750	7758	7744	7651	7685	7786	7705	7901	7825	7568	8
48	7452	7718	7582	7340	7557	7361	7328	7287	7273	7263	7252	7200	7274	7321	7138	7577	7269	7203	7
51	7123	7201	7094	6900	6998	6846	6859	6824	6809	6745	6751	6743	6812	6829	6718	7067	6632	6849	7
54	6768	6618	6639	6436	6426	6360	6319	6360	6292	6213	6190	6303	6254	6225	6297	6430	6094	6436	6
57	6189	6076	6036	5891	5919	5891	5804	5854	5775	5675	5702	5832	5741	5643	5857	5883	5530	5948	6
60	5502	5524	5406	5271	5326	5378	5244	5292	5239	5153	5241	5243	5169	5124	5278	5311	5021	5367	5
63	4871	4907	4884	4725	4653	4813	4687	4712	4698	4664	4718	4613	4587	4562	4677	4702	4558	4768	4
66	4331	4272	4208	4205	4118	4229	4129	4150	4146	4183	4140	4043	4018	4026	4179	4085	3920	4135	4
69	3856	3671	3520	3543	3718	3618	3618	3653	3652	3692	3638	3561	3498	3530	3625	3399	3302	3477	3
72	3324	3090	2876	2956	3131	3117	3181	3223	3262	3250	3242	3168	3061	3069	3090	2811	2700	2812	2
75	2639	2467	2247	2409	2587	2721	2766	2826	2929	2906	2889	2813	2673	2645	2534	2258	2071	2178	2
78	1900	1808	1742	1898	2110	2340	2421	2483	2621	2601	2577	2453	2359	2245	2068	1764	1545	1548	1
81	1323	1273	1325	1538	1800	2043	2164	2237	2339	2318	2295	2161	2045	1907	1681	1348	1120	979	
84	773	804	868	1162	1432	1690	1849	1889	2017	1985	1999	1883	1735	1578	1278	1002	721	610	
87	305	398	552	771	1123	1339	1518	1594	1664	1676	1703	1550	1431	1227	978	691	445	298	
90	94	162	300	508	804	946	1130	1313	1335	1372	1369	1218	1111	954	612	433	217	105	
93	2	2	21	92	163	263	373	462	377	443	414	531	433	382	197	80	34	49	
96	0	0	6	19	8	12	26	49	31	25	46	57	40	38	18	8	10	26	
99	0	0	2	11	2	3	3	4	5	1	6	4	2	0	0	1	1	10	
102	0	0	0	2	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	
108	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	
114	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	
120	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	
126	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	
132	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	
138	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	
144	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	
150	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	
156	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	
162	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	
168	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	
174	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	

180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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Luminaire Report Summary

IESNA:LM-63-2002
[TEST] HBCA96LN288W40000LA10DMV50K
[TESTDATE] 04-Jan-2018 12:54:21
[TESTLAB] Radiant Vision Systems ProSource
[ISSUEDATE] 1/4/2018 1:54:20 PM
[MANUFAC] TEXAS FLUORESCENTS
[LAMP] LED Module
[_TOTALLUMINAIRELUMENS] 34737.7
[DRIVER TYPE] (4) OSRAM OT85W
[BOARD/LAMP TYPE] (8) SYLVANIA "N" BOARDS
[COLOR TEMP] 5,373
[LUMEN/WATT] 120 LM/WT
[CRI] 83.9
[_NUMBEROFFRAYS]10000000
[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.