



Filename: 8RB421F97W11300LDMV40K

Manufacturer: TEXAS FLUORESCENTS

Lamp Output: Total luminaire Lumens: 11777.6

Max Candela: 3,899.1 at Horizontal: 160°, Vertical: 6°

Input Wattage: 91

Luminous Opening: Rectangle w/Luminous Sides (L: 95.98", W: 4.33", H: 1.69")

Test: 8RB421F97W11300LDMV40K

Test Date: 13-Feb-2017 10:09:26

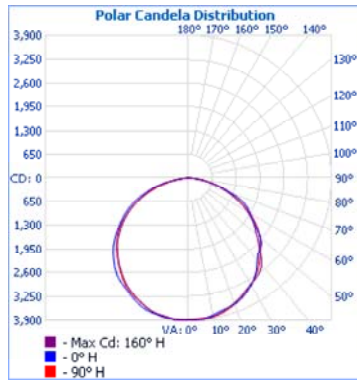
Test Lab: Radiant Vision Systems ProSource

Photometry: Type C

Nema Type: 7 X 7

**Roadway Summary**

Cutoff Classification:	N/A
Distribution:	Type VS
Max Cd, 90 Deg Vert:	29.2
Max Cd, 80 to <90 Deg:	473.0
	Lumens % Lamp
Downward Street Side:	5,899.4 50.1%
Downward House Side:	5,878.2 49.9%
Downward Total:	11,777.6 100%
Upward Street Side:	1.2 0%
Upward House Side:	0.9 0%
Upward Total:	2.1 0%
Total Lumens:	11,779.7 100%



**Flood Summary**

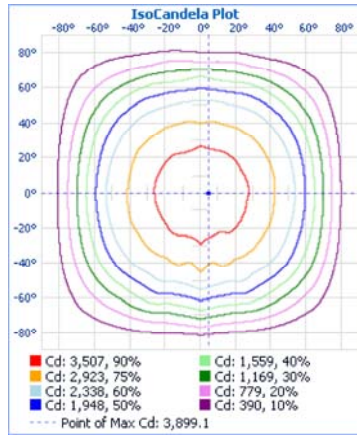
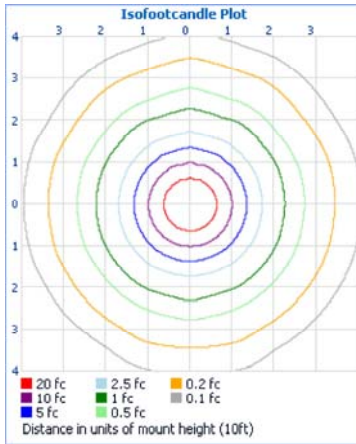
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	98.6%	11,617.1	161.3	161.5
Beam (50%):	77.5%	9,127.5	119.1	119.2
Total:	100%	11,774.4		

**Zonal Lumen Summary**

Zone	Lumens	% Luminaire
0-30	3,067.8	26%
0-40	5,075.1	43.1%
0-60	9,202.3	78.1%
60-90	2,573.3	21.8%
70-100	1,026.4	8.7%
90-120	2.1	0%
0-90	11,775.5	100%
90-180	2.1	0%
0-180	11,777.7	100%

**Lumens Per Zone**

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	368.5	3.1%	90-100	2.1	0%
10-20	1,066.5	9.1%	100-110	0.0	0%
20-30	1,632.9	13.9%	110-120	0	0%
30-40	2,007.3	17.0%	120-130	0	0%
40-50	2,139.1	18.2%	130-140	0	0%
50-60	1,988.1	16.9%	140-150	0	0%
60-70	1,549.0	13.2%	150-160	0	0%
70-80	842.4	7.2%	160-170	0	0%
80-90	181.9	1.5%	170-180	0	0%



**Illuminance at a Distance**

Center Beam Fc	Beam Width
1.7ft	1,343 fc 5.8 ft 5.8 ft
3.3ft	357 fc 11.3 ft 11.2 ft
5.0ft	155 fc 17.1 ft 17.0 ft
6.7ft	86.5 fc 22.9 ft 22.8 ft
8.3ft	56.4 fc 28.3 ft 28.2 ft
10.0ft	38.8 fc 34.1 ft 34.0 ft

Vert. Spread: 119.2°  
 Horiz. Spread: 119.1°

**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	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	1.00
1	1.09	1.04	1.00	.96	1.06	1.02	.98	.84	.97	.94	.91	.88
2	.99	.90	.83	.77	.96	.88	.82	.71	.85	.79	.75	.69

3	.90	.79	.71	.64	.87	.77	.70	.60	.74	.68	.62	.72	.66	.61	.69	.64	.60	.58
4	.82	.70	.61	.54	.80	.68	.60	.51	.66	.59	.53	.63	.57	.52	.61	.56	.51	.49
5	.75	.62	.53	.46	.73	.61	.52	.44	.59	.51	.45	.57	.50	.45	.55	.49	.44	.42
6	.69	.56	.47	.40	.67	.55	.46	.39	.53	.45	.40	.51	.44	.39	.50	.44	.39	.37
7	.64	.50	.42	.35	.62	.50	.41	.34	.48	.40	.35	.47	.40	.35	.45	.39	.34	.32
8	.60	.46	.37	.31	.58	.45	.37	.31	.44	.36	.31	.43	.36	.31	.41	.35	.31	.29
9	.56	.42	.34	.28	.54	.42	.34	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26
10	.52	.39	.31	.26	.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	230	240	250	260	270	280	290	300	310	320	330	340	350	360	
0	3882	3882	3882	3882	3882	3882	3882	3882	3882	3882	3882	3882	3882	3882	3882	3882	3882	3882	3882	3882	3882	3882	3882	3882	3882	3882	3882	3882	3882	3882	3882	3882	3882	3882	3882	3882	3882	3882
3	3890	3888	3886	3880	3877	3872	3869	3866	3866	3867	3868	3872	3875	3880	3884	3885	3889	3890	3891	3892	3892	3892	3893	3894	3895	3896	3896	3896	3896	3895	3893	3892	3891	3890	3891	3891	3891	3890
6	3883	3882	3879	3871	3862	3854	3850	3849	3851	3856	3863	3869	3878	3886	3892	3896	3899	3898	3896	3891	3887	3884	3882	3883	3889	3894	3898	3897	3891	3883	3874	3868	3868	3872	3878	3880	3883	3883
9	3833	3834	3842	3840	3834	3828	3829	3836	3845	3852	3855	3856	3858	3863	3868	3871	3877	3876	3874	3864	3853	3841	3838	3841	3851	3864	3875	3880	3876	3863	3847	3835	3835	3839	3841	3834	3833	3833
12	3772	3781	3804	3816	3810	3800	3801	3813	3829	3836	3829	3814	3806	3807	3812	3812	3823	3836	3843	3831	3811	3798	3801	3803	3806	3815	3830	3843	3845	3839	3828	3822	3827	3833	3819	3790	3772	3772
15	3735	3751	3782	3784	3765	3754	3752	3761	3779	3792	3779	3755	3738	3736	3735	3742	3766	3798	3821	3806	3773	3751	3758	3770	3764	3764	3775	3788	3788	3787	3781	3782	3789	3803	3793	3755	3735	3735
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21	3668	3645	3636	3644	3650	3665	3658	3643	3646	3646	3635	3627	3625	3625	3619	3612	3625	3673	3727	3689	3614	3571	3614	3666	3661	3650	3648	3656	3659	3650	3641	3648	3643	3641	3642	3652	3668	3668
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63	1813	1688	1691	1747	1725	1718	1741	1726	1694	1710	1691	1724	1711	1661	1702	1797	1665	1688	1826	1687	1697	1786	1725	1674	1726	1698	1698	1682	1702	1720	1725	1706	1735	1784	1710	1690	1813	1813
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69	1375	1281	1265	1297	1269	1260	1262	1273	1249	1272	1272	1277	1254	1215	1286	1312	1197	1247	1385	1256	1188	1281	1253	1202	1205	1245	1239	1225	1228	1241	1214	1212	1261	1281	1267	1285	1375	1375
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75	792	850	881	788	809	810	816	826	824	822	840	824	782	783	810	819	774	810	902	794	760	783	778	748	718	763	759	753	745	757	734	759	752	752	846	833	792	792
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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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