



Filename: **31029-8-96-8-40K**

Manufacturer: ALCON LIGHTING

Lamp: LED Module

Lamp Output: Total Luminaire Lumens: 10170.4

Max Candela: 4,115.9 at Horizontal: 20°, Vertical: 3°

Input Wattage: 94.5

Luminous Opening: Rectangle w/Luminous Sides (L: 96.06", W: 5.91", H: 3.54")

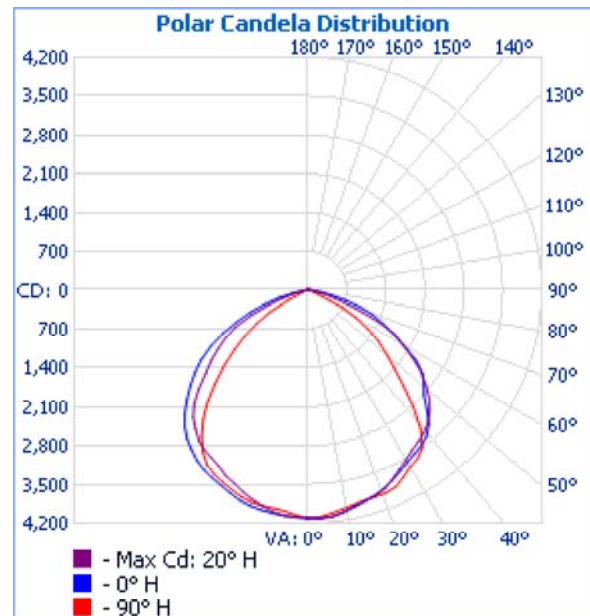
Test: 31029-8-96-8-40K

Test Date: 18-Sep-2017 08:24:24

Test Lab: Radiant Vision Systems ProSource

Photometry : Type C

Nema Type: 6 X 7



#### Roadway Summary

Cutoff Classification:	N/A	
Distribution:	TYPE II, VERY SHORT	
Max Cd, 90 Deg Vert:	15.0	
Max Cd, 80 to <90 Deg:	224.1	
	Lumens	% Lamp
Downward Street Side:	5,144.9	50.6%
Downward House Side:	5,026.9	49.4%
Downward Total:	10,171.8	100%
Upward Street Side:	0.5	0%
Upward House Side:	0.5	0%
Upward Total:	1.0	0%
Total Lumens:	10,172.8	100%

#### Zonal Lumen Summary

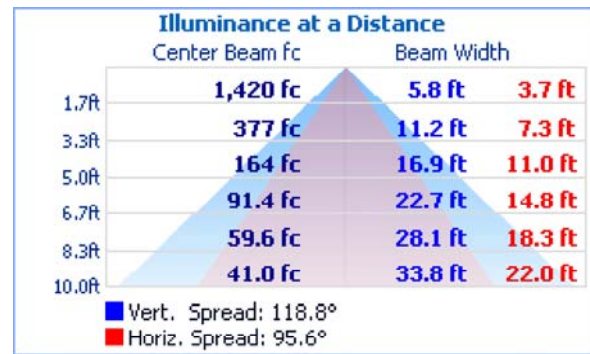
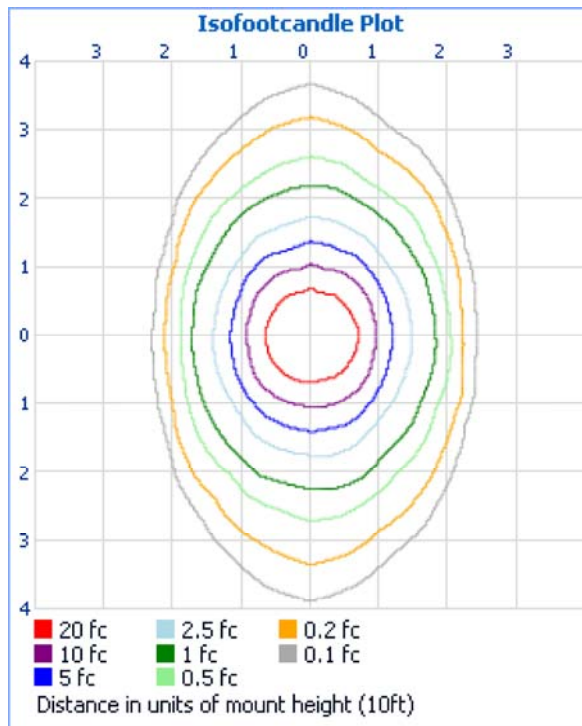
Zone	Lumens	% Luminaire
0-30	3,219.0	31.7%
0-40	5,361.1	52.7%
0-60	9,099.6	89.5%
60-90	1,069.7	10.5%
70-100	217.2	2.1%
90-120	1.1	0%
0-90	10,169.4	100%
90-180	1.1	0%
0-180	10,170.4	100%

#### Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	98.4%	10,009.8	128	154.8
Beam (50%):	79.5%	8,082.5	95.6	118.8
Total:	100%	10,169.6		

#### Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	385.0	3.8%	90-100	1.0	0%
10-20	1,109.4	10.9%	100-110	0.0	0%
20-30	1,724.6	17.0%	110-120	0	0%
30-40	2,142.1	21.1%	120-130	0	0%
40-50	2,117.2	20.8%	130-140	0	0%
50-60	1,621.4	15.9%	140-150	0	0%
60-70	853.6	8.4%	150-160	0	0%
70-80	200.0	2.0%	160-170	0	0%
80-90	16.1	0.2%	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	1.11	1.07	1.03	1.00	1.08	1.04	1.01	.88	1.00	.98	.95	.96	.94	.92	.93	.91	.90	.88			
2	1.02	.95	.89	.84	.99	.93	.87	.77	.89	.85	.81	.86	.82	.79	.83	.80	.77	.75			
3	.94	.84	.77	.71	.91	.83	.76	.66	.80	.74	.69	.77	.72	.68	.75	.70	.67	.65			
4	.86	.75	.67	.61	.84	.74	.66	.58	.71	.65	.60	.69	.64	.59	.67	.62	.58	.56			
5	.79	.67	.59	.53	.77	.66	.59	.51	.64	.57	.52	.62	.56	.52	.61	.55	.51	.49			
6	.73	.61	.53	.47	.72	.60	.52	.45	.58	.51	.46	.57	.50	.46	.55	.50	.45	.43			
7	.68	.55	.47	.41	.67	.55	.47	.40	.53	.46	.41	.52	.45	.41	.50	.45	.40	.38			
8	.64	.51	.42	.37	.62	.50	.42	.36	.49	.42	.37	.47	.41	.36	.46	.40	.36	.34			
9	.59	.46	.39	.33	.58	.46	.38	.33	.45	.38	.33	.44	.37	.33	.43	.37	.33	.31			
10	.56	.43	.35	.30	.54	.42	.35	.30	.41	.35	.30	.40	.34	.30	.40	.34	.30	.28			

#### 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
0	4105	4105	4105	4105	4105	4105	4105	4105	4105	4105	4105	4105	4105	4105	4105	4105	4105	4105	4105	4105	4105	4105	4105	4105	4105	4105	4105	4105	4105	4105	4105
3	4113	4115	4116	4114	4112	4108	4104	4099	4095	4091	4088	4085	4084	4083	4086	4090	4091	4094	4095	4095	4092	4087	4084	4081	4078	4075	4072	4069	4066	4063	4060
6	4101	4101	4101	4095	4087	4079	4072	4062	4053	4042	4031	4024	4021	4022	4032	4046	4062	4075	4084	4085	4081	4070	4059	4048	4037	4026	4015	4004	3993	3982	3971
9	4054	4049	4044	4030	4026	4027	4027	4020	4007	3990	3975	3961	3952	3953	3967	3994	4027	4055	4067	4059	4041	4019	3997	3975	3953	3931	3909	3887	3865	3843	3821
12	3992	3987	3971	3952	3951	3960	3977	3979	3966	3948	3932	3918	3909	3911	3926	3951	3994	4033	4046	4015	3968	3935	3902	3869	3836	3803	3770	3737	3704	3671	3638
15	3939	3941	3930	3889	3861	3879	3913	3932	3927	3919	3909	3893	3875	3868	3869	3889	3939	3997	4021	3971	3896	3849	3802	3755	3708	3661	3614	3567	3520	3473	3426
18	3886	3901	3897	3854	3808	3823	3866	3890	3902	3909	3903	3875	3833	3805	3781	3791	3842	3937	3979	3908	3815	3769	3722	3675	3628	3581	3534	3487	3440	3393	3346
21	3820	3818	3831	3817	3791	3816	3861	3880	3894	3911	3900	3869	3808	3754	3710	3687	3730	3839	3914	3742	3720	3694	3668	3642	3616	3590	3564	3538	3512	3486	3460
24	3740	3707	3728	3756	3767	3816	3872	3875	3870	3877	3864	3865	3824	3747	3689	3619	3615	3727	3846	3646	3651	3634	3608	3582	3556	3530	3504	3478	3452	3426	3400
27	3652	3606	3616	3686	3716	3781	3834	3814	3783	3773	3763	3799	3801	3732	3701	3606	3523	3556	3794	3620	3543	3618	3592	3566	3540	3514	3488	3462	3436	3410	3384
30	3571	3513	3517	3619	3649	3704	3716	3707	3681	3668	3660	3671	3669	3642	3662	3595	3441	3467	3739	3505	3476	3597	3571	3545	3519	3493	3467	3441	3415	3389	3363

33	3509	3409	3429	3570	3580	3605	3575	3623	3616	3610	3623	3558	3504	3514	3553	3554	3385	3315	3656	3382	3421	3532	3
36	3453	3299	3366	3495	3467	3495	3486	3570	3499	3494	3542	3498	3417	3404	3388	3447	3378	3190	3556	3233	3342	3382	3
39	3382	3206	3305	3334	3317	3368	3388	3373	3204	3214	3275	3334	3328	3299	3241	3260	3327	3088	3450	3087	3215	3156	3
42	3244	3131	3219	3174	3196	3202	3159	2983	2763	2826	2854	2933	3092	3136	3116	3112	3163	2976	3315	2925	3085	3008	3
45	3017	3062	3093	2994	3054	2943	2751	2434	2331	2423	2414	2454	2702	2863	2897	2972	2959	2831	3133	2736	2895	2903	2
48	2801	2929	2933	2794	2811	2557	2302	2094	1993	2066	2034	2080	2294	2483	2599	2799	2705	2667	2928	2535	2644	2769	2
51	2678	2699	2729	2600	2436	2128	1937	1825	1771	1791	1753	1793	1937	2076	2300	2568	2433	2516	2725	2369	2362	2546	2
54	2543	2444	2514	2403	1986	1750	1620	1567	1570	1559	1527	1572	1637	1720	1966	2259	2242	2383	2514	2202	2146	2214	1
57	2309	2259	2233	2010	1617	1489	1363	1290	1332	1288	1297	1347	1425	1457	1621	1937	2039	2198	2280	2021	1921	1917	1
60	1980	2076	1957	1579	1350	1260	1094	1021	1024	1002	1006	1054	1198	1220	1306	1567	1761	1955	2014	1812	1706	1624	1
63	1708	1823	1747	1230	1109	1025	796	770	785	704	692	709	835	930	1068	1210	1440	1671	1717	1573	1470	1293	1
66	1469	1500	1349	961	848	686	472	416	277	240	257	346	480	619	847	914	1047	1343	1408	1288	1123	928	
69	1248	1180	912	728	546	332	207	147	96	110	121	148	206	324	538	632	712	1008	1108	993	773	590	
72	979	860	588	450	271	134	92	61	60	62	63	63	92	128	263	396	474	691	817	709	499	346	
75	688	550	339	245	86	49	38	40	29	35	29	29	35	54	77	179	266	413	537	426	272	149	
78	411	284	171	70	26	24	14	15	16	17	18	14	16	19	22	49	112	185	298	213	97	37	
81	224	125	70	26	14	18	18	16	14	18	13	15	15	14	9	12	35	60	114	62	29	12	
84	78	38	9	7	7	21	24	14	17	22	13	15	19	23	8	5	4	13	25	10	3	5	
87	13	3	1	4	12	28	20	14	14	17	11	15	26	21	12	2	0	1	1	0	0	0	
90	3	0	0	2	9	15	14	11	10	12	11	10	15	9	3	0	0	0	6	0	0	0	
93	0	0	0	0	1	3	5	5	4	7	5	4	4	3	1	1	0	0	1	0	0	0	
96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
102	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	
108	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	
114	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	
120	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	
126	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	
132	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	
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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	
147	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	
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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	
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177	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

