



Filename: **31029-4-48-8-40K**

Manufacturer: ALCON LIGHTING

Lamp: LED Module

Lamp Output: Total Luminaire Lumens: 5942.4

Max Candela: 2,342.0 at Horizontal: 100°, Vertical: 6°

Input Wattage: 48.5

Luminous Opening: Rectangle w/Luminous Sides (L: 48.03", W: 5.91", H: 3.54")

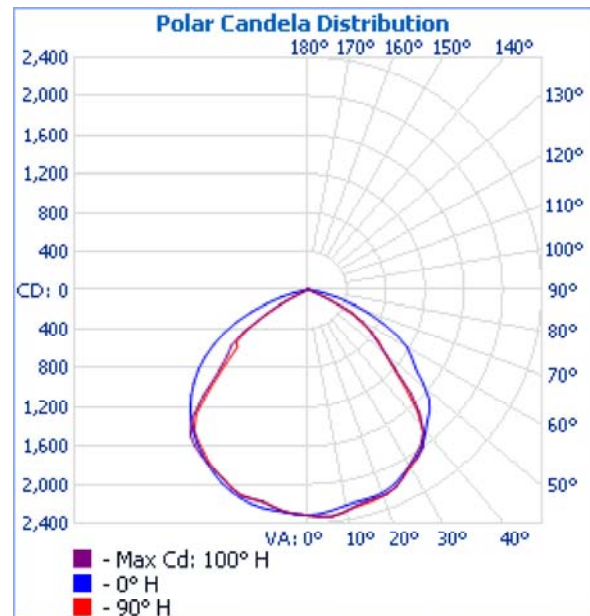
Test: 31029-4-48-8-40K

Test Date: 18-Sep-2017 11:04:58

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:	3.0	
Max Cd, 80 to <90 Deg:	108.0	
	Lumens % Lamp	
Downward Street Side:	3,004.2	50.6%
Downward House Side:	2,939.4	49.5%
Downward Total:	5,943.7	100%
Upward Street Side:	0.0	0%
Upward House Side:	0.1	0%
Upward Total:	0.1	0%
Total Lumens:	5,943.8	100%

Zonal Lumen Summary

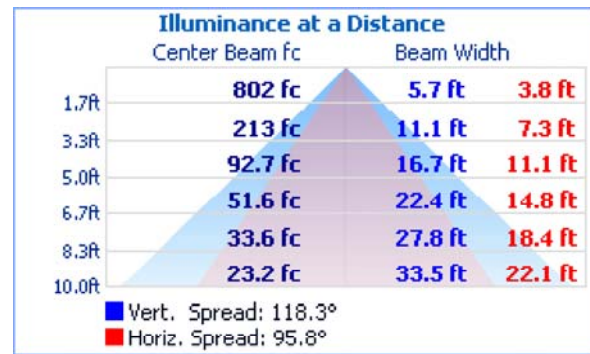
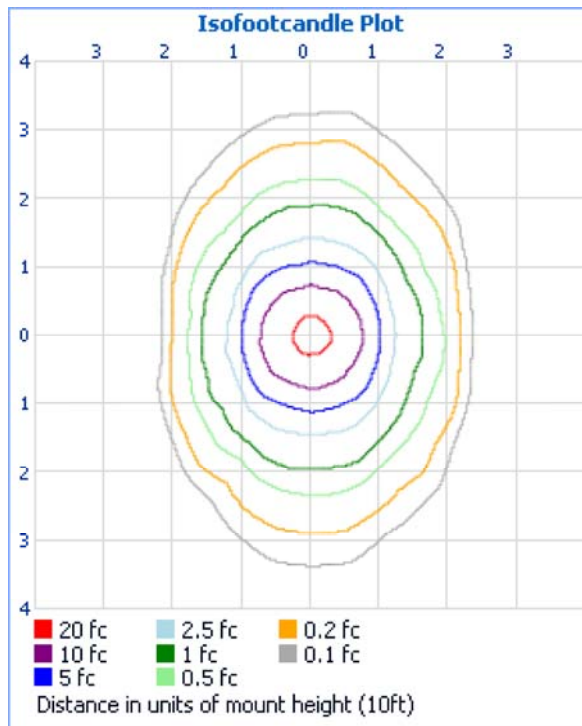
Zone	Lumens	% Luminaire
0-30	1,840.8	31%
0-40	3,066.9	51.6%
0-60	5,276.4	88.8%
60-90	665.9	11.2%
70-100	133.4	2.2%
90-120	0.1	0%
0-90	5,942.3	100%
90-180	0.1	0%
0-180	5,942.4	100%

Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	98.6%	5,859.7	129.9	153.5
Beam (50%):	80.2%	4,767.4	95.8	118.3
Total:	100%	5,941.7		

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	219.3	3.7%	90-100	0.1	0%
10-20	635.9	10.7%	100-110	0.0	0%
20-30	985.5	16.6%	110-120	0	0%
30-40	1,226.1	20.6%	120-130	0	0%
40-50	1,248.4	21.0%	130-140	0	0%
50-60	961.1	16.2%	140-150	0	0%
60-70	532.6	9.0%	150-160	0	0%
70-80	124.6	2.1%	160-170	0	0%
80-90	8.7	0.1%	170-180	0	0%



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	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	1.06	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	.97	.95	.96	.94	.92	.93	.91	.89				
2	1.02	.94	.88	.83	.99	.93	.87	.76	.89	.85	.81	.86	.82	.79	.83	.80	.77				
3	.93	.84	.76	.71	.91	.82	.75	.66	.79	.74	.69	.77	.72	.68	.74	.70	.66				
4	.86	.75	.67	.60	.84	.73	.66	.57	.71	.64	.59	.69	.63	.58	.67	.62	.58				
5	.79	.67	.59	.52	.77	.66	.58	.50	.64	.57	.52	.62	.56	.51	.60	.55	.51				
6	.73	.61	.52	.46	.71	.60	.52	.44	.58	.51	.45	.56	.50	.45	.55	.49	.45				
7	.68	.55	.47	.41	.66	.54	.46	.40	.53	.45	.40	.51	.45	.40	.50	.44	.40				
8	.63	.50	.42	.36	.62	.49	.42	.36	.48	.41	.36	.47	.41	.36	.46	.40	.36				
9	.59	.46	.38	.33	.58	.45	.38	.32	.44	.37	.32	.43	.37	.32	.42	.36	.32				
10	.55	.42	.35	.30	.54	.42	.35	.29	.41	.34	.29	.40	.34	.29	.39	.33	.29				

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	2	
0	2317	2317	2317	2317	2317	2317	2317	2317	2317	2317	2317	2317	2317	2317	2317	2317	2317	2317	2317	2317	2317	2317	2317	2317
3	2306	2307	2309	2315	2318	2323	2327	2331	2333	2335	2335	2334	2332	2329	2325	2322	2316	2313	2310	2308	2306	2307	2307	2307
6	2282	2284	2293	2303	2312	2320	2329	2335	2339	2341	2342	2341	2339	2334	2329	2321	2311	2303	2299	2297	2298	2299	2299	2299
9	2256	2260	2277	2290	2302	2309	2315	2319	2320	2318	2315	2314	2315	2317	2316	2310	2303	2296	2294	2298	2302	2303	2303	2303
12	2237	2245	2263	2277	2281	2281	2288	2294	2293	2286	2276	2269	2273	2284	2293	2293	2290	2287	2289	2300	2307	2298	2298	2298
15	2234	2232	2240	2243	2235	2237	2254	2273	2278	2272	2256	2239	2237	2249	2261	2269	2276	2273	2275	2289	2296	2268	2268	2268
18	2232	2217	2207	2212	2206	2208	2230	2250	2262	2265	2252	2226	2211	2215	2217	2231	2252	2256	2251	2267	2263	2217	2217	2217
21	2216	2203	2188	2201	2211	2208	2210	2214	2227	2250	2247	2218	2188	2179	2170	2175	2210	2222	2219	2233	2215	2154	2154	2154
24	2182	2184	2169	2176	2206	2188	2168	2162	2177	2215	2222	2200	2162	2147	2129	2117	2151	2170	2176	2181	2148	2081	2081	2081
27	2133	2143	2121	2133	2161	2118	2102	2113	2130	2157	2156	2141	2122	2106	2092	2075	2085	2104	2121	2109	2066	2028	2028	2028
30	2083	2087	2060	2087	2087	2017	2030	2073	2094	2101	2077	2064	2068	2050	2044	2039	2021	2026	2061	2020	1989	1994	1994	1994

33	2043	2035	2001	2044	2021	1945	1974	2021	2059	2061	2020	2007	2024	2001	2003	2008	1954	1938	2001	1928	1920	1965	20
36	1992	1978	1941	1989	1955	1903	1934	1957	1996	2001	1967	1974	1978	1942	1948	1963	1881	1849	1939	1838	1850	1917	19
39	1911	1908	1880	1900	1897	1872	1888	1878	1893	1880	1880	1908	1902	1869	1868	1873	1821	1778	1873	1761	1796	1835	18
42	1827	1820	1805	1809	1850	1839	1799	1750	1721	1680	1716	1764	1795	1789	1793	1776	1742	1708	1797	1677	1704	1755	17
45	1764	1717	1719	1715	1790	1756	1610	1546	1464	1413	1494	1541	1620	1675	1724	1676	1686	1618	1710	1570	1676	1661	16
48	1675	1610	1621	1618	1673	1567	1361	1284	1187	1162	1192	1263	1374	1495	1633	1576	1583	1522	1614	1460	1555	1559	15
51	1520	1505	1510	1521	1488	1299	1142	1022	984	995	998	994	1125	1275	1490	1478	1451	1440	1512	1380	1399	1474	14
54	1363	1380	1439	1403	1273	1054	968	835	847	888	857	836	905	1054	1292	1350	1354	1354	1396	1316	1282	1363	13
57	1265	1254	1358	1250	1086	880	803	700	768	760	757	749	740	866	1070	1190	1256	1253	1260	1238	1156	1184	12
60	1172	1143	1214	1023	880	772	598	568	665	590	645	654	570	707	820	961	1120	1136	1114	1122	979	933	11
63	1023	1022	1037	763	669	620	516	500	525	512	464	503	470	582	601	722	957	1012	968	973	891	661	10
66	844	859	777	560	513	426	435	330	229	220	234	295	435	450	471	501	732	871	808	798	707	522	9
69	671	683	557	418	407	244	157	102	65	70	68	88	175	325	357	410	535	692	623	617	518	386	8
72	507	511	353	296	215	84	41	32	40	41	38	35	39	100	209	282	366	498	440	437	342	245	7
75	348	339	221	161	70	24	22	25	32	31	26	28	19	19	61	143	197	307	287	282	192	86	6
78	206	183	128	53	16	13	22	18	15	13	14	17	16	12	11	38	103	147	168	142	78	25	5
81	108	88	61	18	5	12	12	12	6	8	5	11	10	9	3	8	36	51	67	44	26	4	4
84	34	26	8	2	4	5	4	2	2	3	2	3	4	5	2	1	4	13	17	7	4	1	3
87	5	2	0	0	1	1	0	1	0	0	1	0	0	1	2	0	0	1	3	0	2	1	2
90	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	1
93	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	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	0
99	0	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	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
108	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
114	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
120	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
126	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
132	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
138	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
144	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
150	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
156	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
162	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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168	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
174	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

