

**Filename: 12100-3-2-20-40K**

Manufacturer: ALCON LIGHTING, INC

Lamp: LED Module

Lamp Output: Total luminaire Lumens: 2351.8

Max Candela: 655.8 at Horizontal: 70°, Vertical: 12°

Input Wattage: 19.9

Luminous Opening: Rectangle w/Luminous Sides (L: 24.02", W: 3.15", H: 3.54")

Test: 12100-3-2-20-40K

Test Date: 28-Jul-2020 12:25:45

Test Lab: Radiant Vision Systems ProSource

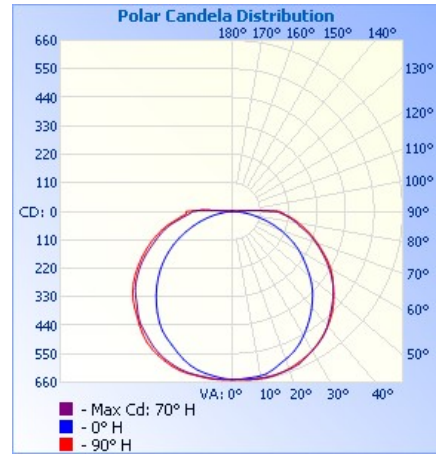
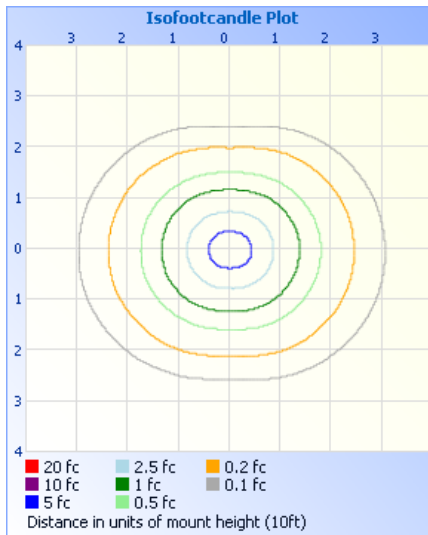
Photometry : Type C

**Roadway Summary**

Cutoff Classification:	N/A
Distribution:	TYPE II, VERY SHORT
Max Cd, 90 Deg Vert:	186.9
Max Cd, 80 to <90 Deg:	256.4
Lumens % Lamp	
Downward Street Side:	1,188.8 50.5%
Downward House Side:	1,123.3 47.8%
Downward Total:	2,312.1 98.3%
Upward Street Side:	20.0 0.9%
Upward House Side:	20.0 0.8%
Upward Total:	40.0 1.7%
Total Lumens:	2,352.1 100%

**Zonal Lumen Summary**

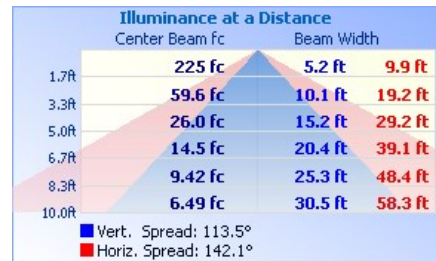
Zone	Lumens	% Luminaire
0-30	522.2	22.2%
0-40	870.8	37%
0-60	1,616.0	68.7%
60-90	695.8	29.6%
70-100	421.7	17.9%
90-120	40.0	1.7%
0-90	2,311.8	98.3%
90-180	40.0	1.7%
0-180	2,351.8	100%


**Flood Summary**

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	99.1%	2,331.1	n/a	166.7
Beam (50%):	75.3%	1,770.8	142.1	113.5
Total:	100%	2,351.7		

**Lumens Per Zone**

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	61.6	2.6%	90-100	39.9	1.7%
10-20	180.6	7.7%	100-110	0.1	0%
20-30	279.9	11.9%	110-120	0	0%
30-40	348.6	14.8%	120-130	0	0%
40-50	379.4	16.1%	130-140	0	0%
50-60	365.8	15.6%	140-150	0	0%
60-70	314.0	13.4%	150-160	0	0%
70-80	233.9	9.9%	160-170	0	0%
80-90	147.9	6.3%	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	10	50	30	20	10	50	30	20	10	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	.98	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	.98			
1	1.06	1.00	.95	.90	1.03	.98	.93	.78	.93	.89	.85	.82	.89	.85	.82	.85	.82	.80	.77		
2	.95	.86	.78	.71	.92	.84	.77	.64	.80	.74	.68	.67	.76	.71	.67	.73	.69	.65	.62		
3	.86	.75	.66	.58	.84	.73	.64	.53	.69	.62	.56	.55	.66	.60	.55	.64	.58	.54	.51		
4	.79	.66	.56	.49	.76	.64	.55	.45	.61	.54	.47	.46	.59	.52	.46	.56	.50	.46	.43		
5	.72	.58	.49	.41	.70	.57	.48	.39	.55	.47	.41	.40	.52	.45	.40	.50	.44	.39	.37		
6	.66	.52	.43	.36	.64	.51	.42	.34	.49	.41	.35	.35	.47	.40	.35	.45	.39	.34	.32		
7	.61	.47	.38	.31	.60	.46	.38	.30	.45	.37	.31	.31	.43	.36	.31	.41	.35	.30	.28		
8	.57	.43	.34	.28	.55	.42	.34	.27	.41	.33	.27	.27	.39	.32	.27	.38	.32	.27	.25		
9	.53	.39	.31	.25	.52	.39	.30	.24	.37	.30	.25	.25	.36	.29	.24	.35	.29	.24	.22		
10	.50	.36	.28	.23	.49	.36	.28	.22	.35	.27	.22	.22	.33	.27	.22	.32	.26	.22	.20		

### 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	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	
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12	642	642	643	645	647	651	655	656	655	653	652	651	647	643	640	637	633	629	626	626	628	631	635	639	643	646	647	648	650	652	652	649	646	645	644	642	642	642	
15	630	630	634	638	641	647	652	654	654	653	651	648	643	637	632	628	623	617	615	616	620	625	630	635	640	645	646	647	650	652	650	645	641	639	636	632	630	630	
18	616	618	623	631	636	644	649	651	651	651	647	643	638	630	622	616	606	602	600	605	610	617	622	627	633	640	644	646	647	647	645	639	633	630	624	619	616	616	
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