

Filename: 12100-3-4-82-50K

Manufacturer: ALCON LIGHTING, INC

Lamp: LED Module

Lamp Output: Total luminaire Lumens: 9943.8

Max Candela: 2,760.4 at Horizontal: 100°, Vertical: 12°

Input Wattage: 82

Luminous Opening: Rectangle w/Luminous Sides (L: 48.03", W: 3.15", H: 3.15")

Test: 12100-3-4-82-50K

Test Date: 14-Aug-2020 09:51:14

Test Lab: Radiant Vision Systems ProSource

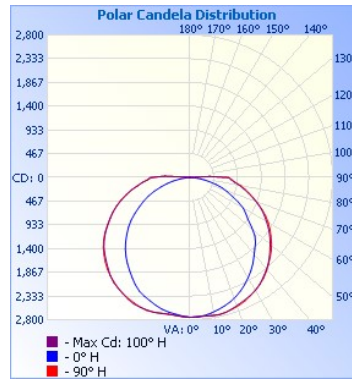
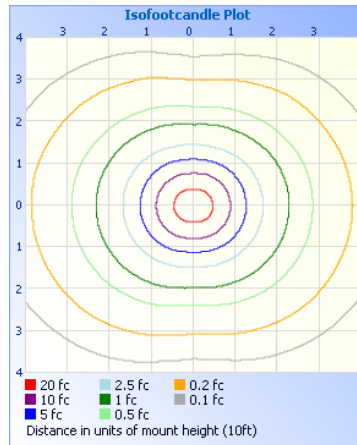
Photometry : Type C

Roadway Summary

Cutoff Classification:	N/A
Distribution:	TYPE II, VERY SHORT
Max Cd, 90 Deg Vert:	789.3
Max Cd, 80 to <90 Deg:	1,044.3
Lumens % Lamp	
Downward Street Side:	4,922.3 49.5%
Downward House Side:	4,844.9 48.7%
Downward Total:	9,767.2 98.2%
Upward Street Side:	87.3 0.9%
Upward House Side:	90.6 0.9%
Upward Total:	177.9 1.8%
Total Lumens:	9,945.1 100%

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	2,197.9	22.1%
0-40	3,666.5	36.9%
0-60	6,810.6	68.5%
60-90	2,955.3	29.7%
70-100	1,801.2	18.1%
90-120	177.9	1.8%
0-90	9,765.9	98.2%
90-180	177.9	1.8%
0-180	9,943.8	100%

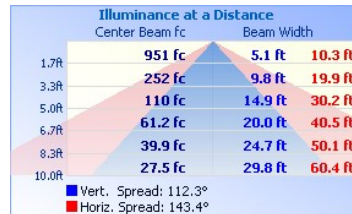


Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	99.1%	9,857.2	n/a	165.7
Beam (50%):	75.4%	7,500.5	143.4	112.3
Total:	100%	9,943.7		

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	259.4	2.6%	90-100	177.6	1.8%
10-20	760.3	7.6%	100-110	0.3	0%
20-30	1,178.1	11.8%	110-120	0	0%
30-40	1,468.6	14.8%	120-130	0	0%
40-50	1,599.0	16.1%	130-140	0	0%
50-60	1,545.2	15.5%	140-150	0	0%
60-70	1,331.7	13.4%	150-160	0	0%
70-80	992.2	10.0%	160-170	0	0%
80-90	631.4	6.3%	170-180	0	0%



Coefficients Of Utilization - Zonal Cavity Method

		Effective Floor Cavity Reflectance: 20%											
RCC %:		80				70				50			
RW %:		70	50	30	0	70	50	30	0	50	30	20	0
RCR: 1		1.19	1.19	1.19	1.19	1.16	1.16	1.16	0.98	1.10	1.10	1.10	1.05
1		1.06	1.00	.95	.90	1.03	.97	.93	.78	.93	.89	.85	.88
2		.95	.86	.78	.71	.92	.84	.76	.64	.80	.74	.68	.76
3		.86	.75	.65	.58	.83	.73	.64	.53	.69	.62	.56	.66
4		.79	.66	.56	.49	.76	.64	.55	.45	.61	.53	.47	.59
5		.72	.58	.49	.41	.70	.57	.48	.39	.55	.47	.40	.52
6		.66	.52	.43	.36	.64	.51	.42	.34	.49	.41	.35	.47
7		.61	.47	.38	.31	.60	.46	.37	.30	.44	.37	.31	.43
8		.57	.43	.34	.28	.55	.42	.34	.27	.41	.33	.27	.39
9		.53	.39	.31	.25	.52	.39	.30	.24	.37	.30	.25	.36
10		.50	.36	.28	.22	.48	.36	.28	.22	.34	.27	.22	.33

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	2749	2749	2749	2749	2749	2749	2749	2749	2749	2749	2749	2749	2749	2749	2749	2749	2749	2749	2749	2749	2749	2749	2749	2749	2749	2749	2749	2749	2749	2749	2749	2749	2749	2749	2749	2749	2749	2749
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9	2697	2699	2710	2714	2719	2721	2725	2732	2741	2748	2750	2747	2736	2722	2709	2697	2689	2681	2680	2682	2692	2701	2713	2722	2728	2728	2724	2722	2722	2721	2716	2708	2703	2702	2701	2696	2697	
12	2657	2662	2677	2691	2699	2699	2704	2720	2739	2754	2760	2757	2742	2721	2702	2685	2669	2655	2648	2652	2667	2686	2706	2722	2733	2733	2728	2726	2734	2742	2737	2721	2710	2703	2687	2668	2657	
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Luminaire Report Summary

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[TEST] 12100-3-4-82-50K
[TESTDATE] 14-Aug-2020 09:51:14
[TESTLAB] Radiant Vision Systems ProSource
[ISSUEDATE] 8/14/2020 10:44:39 AM
[MANUFAC] ALCON LIGHTING, INC
[LAMP] LED Module
[ _TOTALLUMINAIRELUMENS] 9943.8
[ _DRIVER TYPE] (1) OSRAM 85W DRIVER
[ _BOARD/LAMP TYPE] (2) SEOUL "B" BOARDS_50K
[ _COLOR TEMP] 5479 CCT
[ _LUMEN/WATT] 121 LPW
[ _CRI] 85.7
[ _NUMBEROFFRAYS]10000000
[OTHER] Absolute Photometry measurement
```

```
FILE: COORDINATE SYSTEM: TYPE C
FILE: UNIT OF MEASURE: METRIC
FILE: BALLAST FACTOR: 1
```

FILE: CREATED USING ABSOLUTE PHOTOMETRY
FILE: CANDELA MULTIPLIER: 1
FILE: VERTICAL ANGLES: 61, HORIZONTAL ANGLES: 37

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Reported data calculated from manufacturer's data file, based on IES recommended methods.