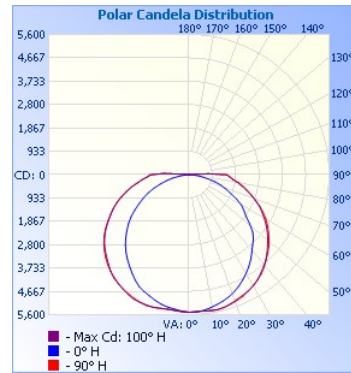
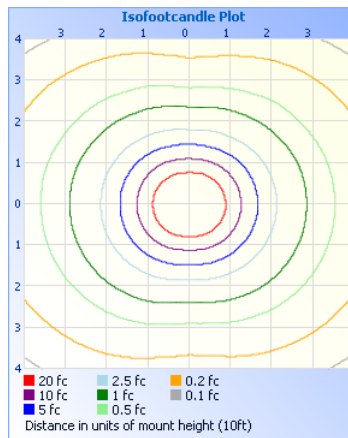


Filename: 12100-3-8-164-50K
Manufacturer: ALCON LIGHTING, INC
Lamp: LED Module
Lamp Output: Total luminaire Lumens: 19884
Max Candela: 5,519.8 at Horizontal: 100°, Vertical: 12°
Input Wattage: 164
Luminous Opening: Rectangle w/Luminous Sides (L: 95.67", W: 3.15", H: 3.15")
Test: 12100-3-8-164-50K
Test 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:	1,578.3		
Max Cd, 80 to <90 Deg:	2,088.2		
	Lumens	% Lamp	
Downward Street Side:	9,842.8	49.5%	
Downward House Side:	9,688.0	48.7%	
Downward Total:	19,530.8	98.2%	
Upward Street Side:	174.5	0.9%	
Upward House Side:	181.2	0.9%	
Upward Total:	355.8	1.8%	
Total Lumens:	19,886.6	100%	

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	4,394.9	22.1%
0-40	7,331.6	36.9%
0-60	13,618.7	68.5%
60-90	5,909.5	29.7%
70-100	3,601.7	18.1%
90-120	355.8	1.8%
0-90	19,528.2	98.2%
90-180	355.8	1.8%
0-180	19,884.0	100%



Flood Summary			
	Efficiency	Lumens	Horizontal Spread
Field (10%):	99.1%	19,710.8	n/a
Beam (50%):	75.4%	14,998.3	143.4
Total:	100%	19,883.8	

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	518.8	2.6%	90-100	355.2	1.8%
10-20	1,520.3	7.6%	100-110	0.6	0%
20-30	2,355.8	11.8%	110-120	0	0%
30-40	2,936.7	14.8%	120-130	0	0%
40-50	3,197.3	16.1%	130-140	0	0%
50-60	3,089.8	15.5%	140-150	0	0%
60-70	2,662.9	13.4%	150-160	0	0%
70-80	1,984.0	10.0%	160-170	0	0%
80-90	1,262.6	6.3%	170-180	0	0%

Illuminance at a Distance			
Center Beam fc	Beam Width		
1.7 ft	1,902 fc	5.1 ft	10.3 ft
3.3 ft	505 fc	9.8 ft	19.9 ft
5.0 ft	220 fc	14.9 ft	30.2 ft
6.7 ft	122 fc	20.0 ft	40.5 ft
8.3 ft	79.8 fc	24.7 ft	50.1 ft
10.0 ft	55.0 fc	29.8 ft	60.4 ft
■ Vert. Spread: 112.3° ■ Horiz. Spread: 143.4°			

Coefficients Of Utilization - Zonal Cavity Method

		Effective Floor Cavity Reflectance: 20%															
RCC %:		80				70				50				30			
RW %:		70	50	30	0	70	50	30	0	50	30	20	0	50	30	20	0
RCR: 0		1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00
1		1.06	1.00	.95	.90	1.03	.97	.93	.78	.93	.89	.85	.88	.85	.82	.84	.82
2		.95	.86	.78	.71	.92	.84	.76	.64	.80	.74	.68	.76	.71	.66	.73	.68
3		.86	.75	.65	.58	.83	.73	.64	.53	.69	.62	.56	.66	.60	.55	.63	.58
4		.79	.66	.56	.49	.76	.64	.55	.45	.61	.53	.47	.59	.52	.46	.56	.50
5		.72	.58	.49	.41	.70	.57	.48	.39	.55	.47	.40	.52	.45	.40	.50	.44
6		.66	.52	.43	.36	.64	.51	.42	.34	.49	.41	.35	.47	.40	.35	.45	.39
7		.61	.47	.38	.31	.60	.46	.37	.30	.44	.37	.31	.43	.36	.30	.41	.35
8		.57	.43	.34	.28	.55	.42	.34	.27	.41	.33	.27	.39	.32	.27	.38	.32
9		.53	.39	.31	.25	.52	.39	.30	.24	.37	.30	.25	.36	.29	.24	.35	.29
10		.50	.36	.28	.22	.48	.36	.28	.22	.34	.27	.22	.33	.27	.22	.32	.26

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
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[illegible]

Luminaire Report Summary

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IESNA:LM-63-2002
[TEST] 12100-3-8-164-50K
[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] 19884
[ DRIVER TYPE] (2) OSRAM 85W DRIVER
[ BOARD/LAMP TYPE] (4) SEOUL 'B' BOARDS_50K
[ COLOR TEMP] 5479 CCT
[ LUMEN/WATT] 121 LPW
[ CRI] 85.7
[ NUMBEROFRAYS]10000000
[OTHER] Absolute Photometry measurement
```

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FILE: CREATED USING ABSOLUTE PHOTOMETRY
FILE: CANDELA MULTIPLIER: 1.99963
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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Reported data calculated from manufacturer's data file, based on IES recommended methods.