

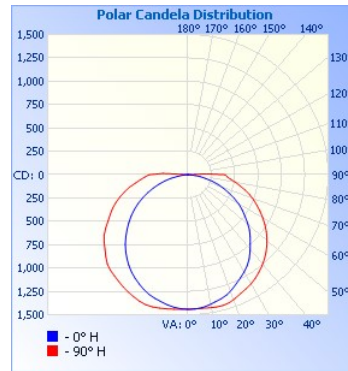
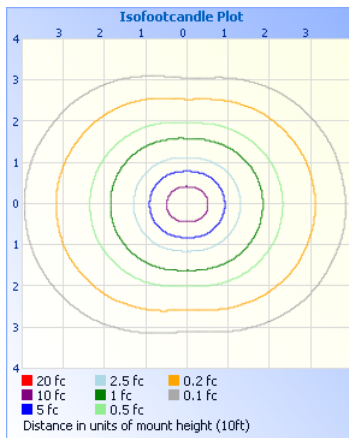
Filename: 12100-3-2-20-50K
Manufacturer: ALCON LIGHTING, INC
Lamp: LED Module
Lamp Output: Total luminaire Lumens: 5261.6
Max Candela: 1,465.0 at Horizontal: 270°, Vertical: 15°
Input Wattage: 41.5
Luminous Opening: Rectangle w/Luminous Sides (L: 24.02", W: 3.15", H: 3.54")
Test: 12100-3-2-20-50K
Test Date: 18-Aug-2020 09:24:36
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:	417.1
Max Cd, 80 to <90 Deg:	568.3
Lumens % Lamp	
Downward Street Side:	2,594.6 49.3%
Downward House Side:	2,573.4 48.9%
Downward Total:	5,168.0 98.2%
Upward Street Side:	45.8 0.9%
Upward House Side:	48.5 0.9%
Upward Total:	94.3 1.8%
Total Lumens:	5,262.3 100%

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1,158.1	22%
0-40	1,933.4	36.7%
0-60	3,596.2	68.3%
60-90	1,571.2	29.9%
70-100	960.0	18.2%
90-120	94.3	1.8%
0-90	5,167.4	98.2%
90-180	94.3	1.8%
0-180	5,261.6	100%

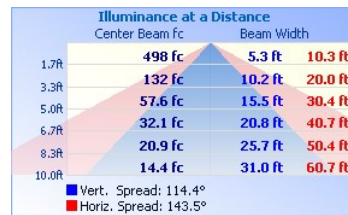


Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	99.1%	5,215.4	n/a	169.1
Beam (50%):	75%	3,948.4	143.5	114.4
Total:	100%	5,261.5		

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	136.7	2.6%	90-100	94.1	1.8%
10-20	400.6	7.6%	100-110	0.2	0%
20-30	620.8	11.8%	110-120	0	0%
30-40	775.3	14.7%	120-130	0	0%
40-50	845.3	16.1%	130-140	0	0%
50-60	817.4	15.5%	140-150	0	0%
60-70	705.3	13.4%	150-160	0	0%
70-80	529.3	10.1%	160-170	0	0%
80-90	336.5	6.4%	170-180	0	0%



Coefficients Of Utilization - Zonal Cavity Method

		Effective Floor Cavity Reflectance: 20%																			
RCC %:		80				70				50				30				10			
RW %:		70	50	30	0	70	50	30	0	50	30	20	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	0.98	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	1.00	0.98	
1		1.06	1.00	.95	.90	1.03	.97	.93	.78	.93	.89	.85	.88	.85	.82	.84	.82	.79	.77	.77	
2		.95	.86	.78	.71	.92	.84	.76	.64	.80	.74	.68	.76	.71	.66	.73	.68	.65	.62	.62	
3		.86	.74	.65	.58	.83	.73	.64	.53	.69	.62	.56	.66	.60	.55	.63	.58	.54	.51	.51	
4		.79	.65	.56	.48	.76	.64	.55	.45	.61	.53	.47	.58	.52	.46	.56	.50	.45	.43	.43	
5		.72	.58	.48	.41	.70	.57	.48	.39	.54	.46	.40	.52	.45	.40	.50	.44	.39	.37	.37	
6		.66	.52	.43	.36	.64	.51	.42	.34	.49	.41	.35	.47	.40	.35	.45	.39	.34	.32	.32	
7		.61	.47	.38	.31	.59	.46	.37	.30	.44	.36	.31	.43	.36	.30	.41	.35	.30	.28	.28	
8		.57	.43	.34	.28	.55	.42	.34	.27	.41	.33	.27	.39	.32	.27	.38	.31	.27	.25	.25	
9		.53	.39	.31	.25	.52	.39	.30	.24	.37	.30	.24	.36	.29	.24	.35	.29	.24	.22	.22	
10		.50	.36	.28	.22	.48	.36	.28	.22	.34	.27	.22	.33	.27	.22	.32	.26	.22	.20	.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
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[illegible]

Luminaire Report Summary

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IESNA:LM-63-2002
[TEST] 12100-3-2-20-50K
[TESTDATE] 18-Aug-2020 09:24:36
[TESTLAB] Radiant Vision Systems ProSource
[ISSUEDATE] 8/18/2020 10:17:18 AM
[MANUFAC] ALCON LIGHTING, INC
[LAMP] LED Module
[ TOTALLUMINAIRELUMENS] 5261.6
[ DRIVER TYPE] 1) OSRAM OT50W
[ BOARD/LAMP TYPE] 1) SEUOL "B" BOARDS_50K
[ COLOR TEMP] 5263 CCT
[ LUMEN/WATT] 127 LPW
[ CRI] 85.5
[ NUMBEROFRAYS]10000000
[OTHER] Absolute Photometry measurement
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FILE: CREATED USING ABSOLUTE PHOTOMETRY
FILE: CANDELA MULTIPLIER: 1
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.