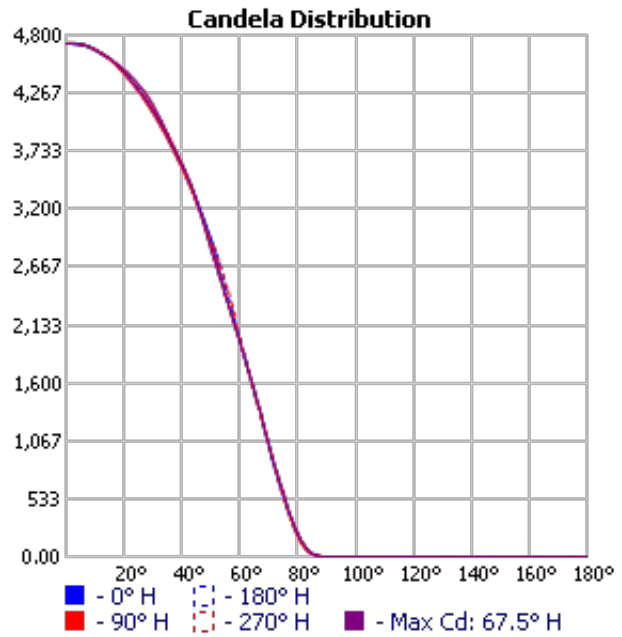
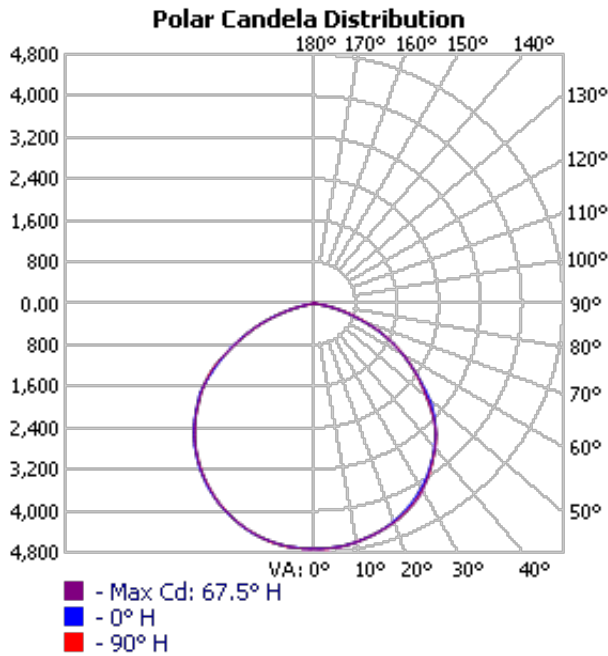


OUTDOOR PHOTOMETRIC REPORT

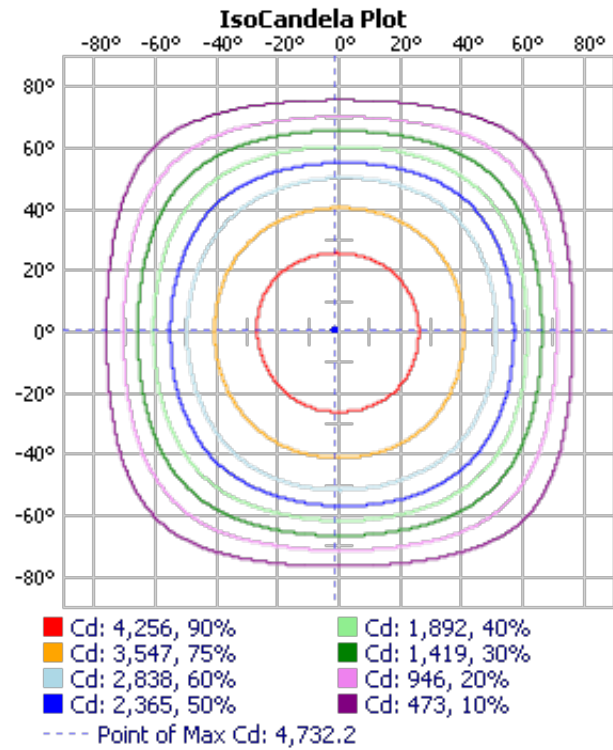
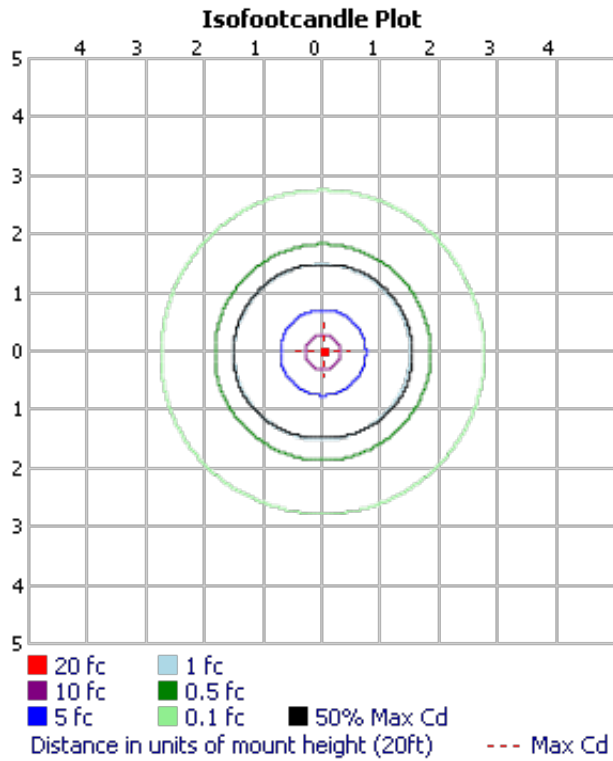
CATALOG: LRHB100-4100K

MANUFACTURER: ARCHIPELAGO LIGHTING
TEST LAB: STANDARD-TECH CO. LTD
TEST DATE: 2017/06/02
DESCRIPTION: LRHB100-4100K
LAMP OUTPUT: TOTAL LUMINAIRE LUMENS: 13040.5, **ABSOLUTE PHOTOMETRY ***
INPUT WATTAGE: 99.11
LUMINOUS OPENING: POINT
NEMA TYPE: 7 X 7
MAX CD: 4,732.2 AT HORIZONTAL: 67.5°, VERTICAL: 1°



***TEST BASED ON ABSOLUTE PHOTOMETRY WHERE LAMP LUMENS=LUMENS TOTAL.
*CUTOFF CLASSIFICATION AND EFFICIENCY CANNOT BE PROPERLY CALCULATED FOR ABSOLUTE PHOTOMETRY.**

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ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0-30	3,724.3	28.6%
0-40	6,141.2	47.1%
0-60	10,859.4	83.3%
60-90	2,167.3	16.6%
70-100	671.0	5.1%
90-120	5.4	0%
0-90	13,026.7	99.9%
90-180	13.8	0.1%
0-180	13,040.5	100%

LUMENS PER ZONE

ZONE	LUMENS	% TOTAL	ZONE	LUMENS	% TOTAL
0-10	448.3	3.4%	90-100	2.3	0%
10-20	1,293.0	9.9%	100-110	1.5	0%
20-30	1,983.0	15.2%	110-120	1.6	0%
30-40	2,416.9	18.5%	120-130	1.8	0%
40-50	2,518.1	19.3%	130-140	1.9	0%
50-60	2,200.1	16.9%	140-150	1.8	0%
60-70	1,498.6	11.5%	150-160	1.5	0%
70-80	610.9	4.7%	160-170	1.0	0%
80-90	57.8	0.4%	170-180	0.4	0%

LCS TABLE

BUG RATING	B3 - U2 - G1	
FORWARD LIGHT	LUMENS	LUMENS %
LOW(0-30):	1,864.8	14.3%
MEDIUM(30-60):	3,572.8	27.4%
HIGH(60-80):	1,063.3	8.2%
VERY HIGH(80-90):	30.5	0.2%
BACK LIGHT		
LOW(0-30):	1,859.5	14.3%
MEDIUM(30-60):	3,563.7	27.3%
HIGH(60-80):	1,046.1	8%
VERY HIGH(80-90):	27.3	0.2%
UPLIGHT		
LOW(90-100):	2.3	0%
HIGH(100-180):	11.5	0.1%
TRAPPED LIGHT:	0.000	0%

FLOOD SUMMARY

	EFFICIENCY	LUMENS	HORIZONTAL SPREAD	VERTICAL SPREAD
FIELD (10%):	98.3%	12,817.3	152.3	152.3
BEAM (50%):	77%	10,044.7	112.3	111.9
TOTAL:	99.9%	13,025.0		

ILLUMINANCE AT A DISTANCE

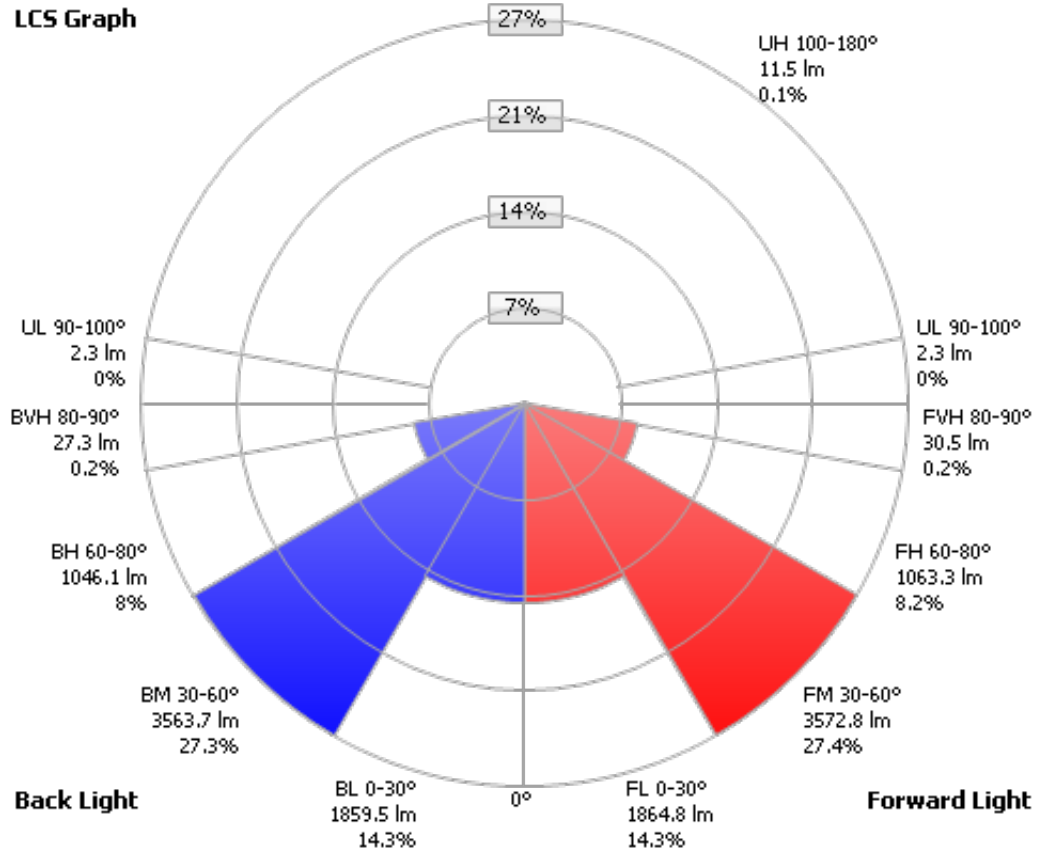
HEIGHT(FT)	CENTER BEAM	BEAM SPREAD(FT)		FIELD SPREAD(FT)	
	FOOTCANDLE	HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL
4.00	295.22 FC	11.9	11.8	32.4	32.4
8.00	73.81 FC	23.8	23.7	64.9	64.9
12.00	32.80 FC	35.8	35.5	97.3	97.3
16.00	18.45 FC	47.7	47.4	129.8	129.8
20.00	11.81 FC	59.6	59.2	162.2	162.2
		BEAM ANGLE		FIELD ANGLE	
		112.3°	111.9°	152.3°	152.3°

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	50	30	20	50	30	20	50	30	20	50	30	20	50	30	20
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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1	1.10	1.05	1.01	.98	1.07	1.03	.99	.86	.99	.96	.93	.95	.93	.90	.91	.89	.88	.86	.86	.86	.86	.86	.86	.86	.86	.86	.86	.86	.86	.86	.86	.86	.86	.86	.86
2	1.00	.92	.86	.80	.98	.90	.85	.73	.87	.82	.78	.84	.80	.76	.81	.77	.74	.72	.72	.72	.72	.72	.72	.72	.72	.72	.72	.72	.72	.72	.72	.72	.72	.72	.72
3	.91	.81	.74	.67	.89	.80	.73	.63	.77	.71	.65	.74	.69	.64	.72	.67	.63	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61
4	.84	.72	.64	.57	.82	.71	.63	.54	.68	.61	.56	.66	.60	.55	.64	.59	.54	.52	.52	.52	.52	.52	.52	.52	.52	.52	.52	.52	.52	.52	.52	.52	.52	.52	.52
5	.77	.65	.56	.49	.75	.63	.55	.47	.61	.54	.48	.59	.53	.48	.57	.52	.47	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45	.45
6	.71	.58	.49	.43	.69	.57	.49	.41	.55	.48	.42	.54	.47	.42	.52	.46	.42	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40
7	.66	.53	.44	.38	.64	.52	.44	.37	.50	.43	.38	.49	.42	.37	.47	.42	.37	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35
8	.61	.48	.40	.34	.60	.47	.39	.33	.46	.39	.34	.45	.38	.33	.44	.38	.33	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31
9	.57	.44	.36	.30	.56	.43	.36	.30	.42	.35	.30	.41	.35	.30	.40	.34	.30	.28	.28	.28	.28	.28	.28	.28	.28	.28	.28	.28	.28	.28	.28	.28	.28	.28	.28
10	.54	.41	.33	.28	.52	.40	.33	.27	.39	.32	.27	.38	.32	.27	.37	.31	.27	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25

LCS Graph



Scale = Max LCS %
 Trapped Light: 0lm, 0%

CANDELA TABLE - TYPE C

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5	360
0	4724	4724	4724	4724	4724	4724	4724	4724	4724	4724	4724	4724	4724	4724	4724	4724	4724
5	4712	4716	4720	4722	4715	4707	4703	4707	4717	4718	4719	4717	4719	4707	4704	4708	4712
10	4666	4664	4670	4671	4662	4653	4650	4659	4665	4668	4669	4670	4672	4658	4662	4658	4666
15	4585	4581	4585	4590	4583	4571	4568	4578	4584	4577	4575	4574	4576	4575	4579	4577	4585
20	4464	4472	4468	4485	4481	4461	4460	4447	4450	4445	4450	4445	4445	4449	4447	4455	4464
25	4303	4324	4334	4350	4340	4308	4295	4289	4283	4284	4291	4286	4281	4288	4292	4291	4303
30	4109	4125	4145	4165	4133	4095	4094	4096	4090	4086	4081	4071	4083	4093	4097	4088	4109
35	3877	3886	3897	3895	3891	3852	3856	3871	3858	3851	3849	3840	3843	3863	3864	3859	3877
40	3603	3598	3620	3622	3610	3580	3568	3584	3590	3570	3575	3571	3570	3589	3596	3598	3603
45	3296	3296	3266	3268	3286	3258	3268	3276	3271	3266	3249	3249	3261	3285	3296	3292	3296
50	2924	2864	2833	2827	2845	2819	2874	2911	2925	2898	2900	2897	2897	2937	2936	2940	2924
55	2424	2423	2435	2405	2403	2396	2416	2457	2509	2539	2518	2517	2520	2541	2544	2459	2424
60	1970	1980	1985	1995	1986	1953	1972	1964	2017	2018	2017	2028	2014	2049	2003	2014	1970
65	1529	1517	1514	1532	1533	1483	1498	1520	1523	1519	1515	1505	1496	1557	1532	1525	1529
70	1028	1031	1024	1022	1031	972	1004	1043	1044	1052	1024	1020	1016	1063	1068	1026	1028
75	565	579	572	599	596	530	551	571	562	562	548	548	541	594	572	579	565
80	208	206	211	223	218	181	191	190	199	202	191	187	180	218	220	204	208
85	25	25	28	33	33	24	26	24	25	24	25	25	24	32	30	24	25
90	3	2	3	2	2	3	3	3	3	3	3	3	3	3	3	2	3
95	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
100	1	1	1	1	1	2	2	2	2	2	2	2	2	1	1	1	1
105	1	1	1	1	1	2	2	2	2	2	2	2	2	1	1	1	1
110	1	1	1	1	1	2	2	2	2	2	2	2	2	1	1	1	1
115	1	1	1	1	1	2	2	2	2	2	2	2	2	1	1	1	1
120	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
125	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
130	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
135	2	2	2	2	2	3	2	2	3	2	2	2	3	2	2	2	2
140	3	2	2	3	3	3	3	3	3	3	3	3	3	2	3	3	3
145	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
150	3	3	3	3	3	3	3	3	3	3	3	3	4	3	3	3	3
155	3	3	3	3	3	4	3	3	4	3	3	3	4	3	3	3	3
160	4	3	3	3	3	4	4	4	4	4	3	3	4	3	3	3	4
165	4	4	3	4	4	4	4	4	4	4	4	4	4	4	3	4	4
170	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
175	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
180	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4