

LUMINAIRE: HBL-48LU-5K-A-070
 HBL Severe Location, Highbay
 18" diameter Led with custom engineered TIR optics
BALLAST: LXMG2203
BALLAST FACTOR: 1.00
LAMP: Led
FIXTURE LUMENS: 12826
WATTS: 108.00
MOUNTING: Specialty
SHIELDING ANGLE: 0° = 90 90° = 90
SPACING CRITERION: 0° = 1.19 90° = 0.78
LUMINOUS OPENING IN FEET
 LENGTH: 0.79
 WIDTH: 0.79
 HEIGHT: 0.00

TEST #5078
 DATE: 4/12/2012

TOTAL LUMINAIRE EFFICIENCY = 100.0
TOTAL LUMENS PER WATT = 119

ANSI/IESNA RP-1-2004 COMPLIANCE: NONCOMPLIANT
COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$2.02
BASED ON 3000 HRS. AND \$.08 PER KWH

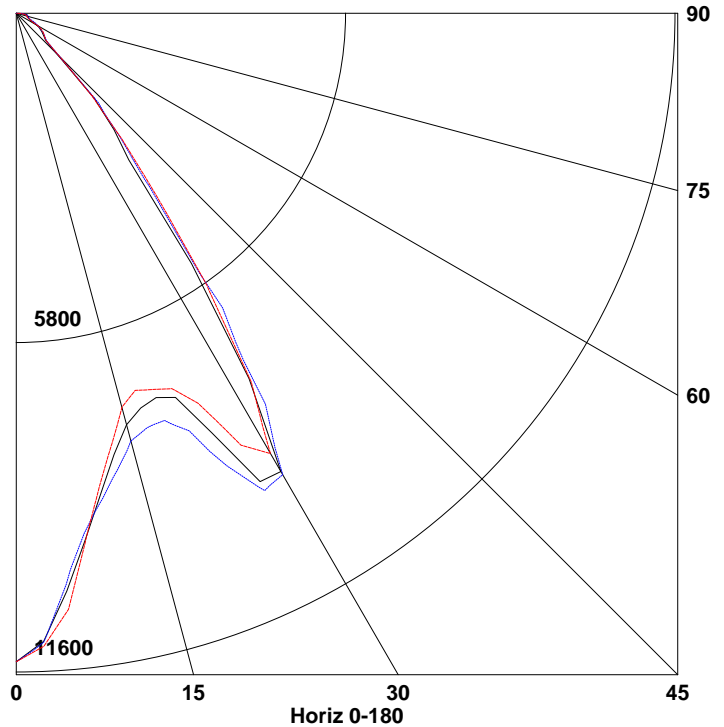
ZONAL LUMENS

ZONE	LUMENS	% LAMP	% FIXTURE
0-30	6985	54.5	54.5
0-40	10594	82.6	82.6
0-60	12156	94.8	94.8
0-90	12826	100.0	100.0
0-180	12826	100.0	100.0

AVERAGE LUMINANCE

ANGLE	CANDELA/SQ M					
	0.0	20.0	40.0	60.0	80.0	90.0
0	196927	196927	196927	196927	196927	196927
30	185530	181189	188398	179556	176409	178182
40	60271	61780	64459	62928	64707	65337
45	24562	25220	26391	26586	26416	26952
50	17038	17494	17897	17789	17682	17521
55	16388	16959	16899	17200	17290	17410
60	14246	15212	15419	15798	15626	15212
65	10692	12570	13018	13100	10733	10733
70	11447	11346	11497	11800	10539	10338
75	14994	14794	14660	14727	13128	13128
80	19467	20461	20560	20560	17481	17580
85	23352	29487	27705	27112	21769	21373

INDOOR CANDELA PLOT



0.0 ——— 45.0 ——— 90.0 ———

COEFFICIENTS OF UTILIZATION (%)

EFFECTIVE FLOOR CAVITY REFLECTANCE = 20%

ZONAL CAVITY METHOD

RC	EFFECTIVE FLOOR CAVITY REFLECTANCE = 20%																	
	80%				70%				50%				30%					
RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82
3	99	91	85	80	97	90	84	80	87	82	79	84	81	77	82	79	76	74
R	4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	68
C	5	87	77	71	66	85	76	70	65	75	69	65	73	68	64	71	67	62
R	6	82	72	65	60	80	71	64	60	69	63	59	68	63	59	66	62	57
	7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	52
	8	73	62	55	50	72	61	55	50	60	54	50	59	54	50	58	53	48
	9	69	58	51	47	68	57	51	47	56	50	46	55	50	46	55	50	45
	10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	41

RCR = ROOM CAVITY RATIO RC = EFFECTIVE CEILING CAVITY REFLECTANCE RW = WALL REFLECTANCE

THE DATA IN THIS REPORT ARE BASED ON ABSOLUTE MEASUREMENTS.
 ANSI/IESNA RP-1 COMPLIANCE IS BASED ON ABSOLUTE MEASUREMENTS.
 THIS TEST RUN IN ACCORDANCE WITH CURRENT I.E.S.N.A. PUBLISHED PROCEDURES.

APPROVED BY: _____



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CANDELA VALUES

ANGLE	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0
0.0	11418*	11418	11418	11418	11418	11418	11418	11418	11418	11418	11418	11418	11418	11418	11418	11418	11418
2.5	11069	11043	11054	11064	11084	11094	11105	11097	11077	11080	11054	11055	11058	11064	11089	11118	11123
5.0	10211	10192	10199	10169	10181	10157	10152	10144	10096	10096	10091	10133	10184	10254	10338	10432	10470
7.5	9337	9306	9284	9241	9218	9202	9205	9213	9200	9219	9224	9247	9245	9232	9208	9212	9231
10.0	8581	8566	8585	8593	8631	8654	8686	8706	8693	8692	8658	8639	8603	8563	8517	8490	8455
12.5	7957	7953	7978	8006	8035	8077	8128	8185	8217	8232	8173	8097	8011	7927	7821	7826	7786
15.0	7501	7507	7518	7530	7545	7581	7638	7701	7766	7794	7693	7565	7458	7364	7297	7243	7193
17.5	7287	7294	7318	7350	7387	7426	7489	7561	7634	7654	7563	7451	7347	7237	7147	7077	7012
20.0	7200	7187	7246	7265	7303	7360	7446	7560	7621	7629	7563	7483	7390	7294	7219	7160	7107
22.5	7321	7339	7388	7469	7563	7669	7808	7932	7957	7957	7902	7811	7675	7518	7397	7302	7227
25.0	8153	8199	8271	8365	8427	8543	8701	8831	8839	8799	8753	8692	8569	8345	8091	7871	7730
27.5	9295	9310	9310	9275	9243	9278	9405	9523	9529	9472	9426	9378	9287	9136	8959	8782	8676
30.0	9316	9293	9258	9143	9098	9131	9283	9429	9460	9382	9239	9125	9016	8910	8831	8796	8858
32.5	7627	7650	7711	7716	7781	7879	8043	8197	8253	8170	8008	7895	7804	7708	7652	7629	7673
35.0	5380	5404	5451	5553	5688	5833	6055	6236	6339	6329	6250	6220	6171	6084	5972	5889	5893
37.5	3254	3239	3203	3215	3299	3400	3541	3678	3793	3874	3882	3906	3919	3926	3937	3964	4035
40.0	2677	2686	2711	2732	2744	2780	2832	2866	2863	2839	2816	2811	2795	2774	2780	2827	2874
42.5	2029	2027	2058	2049	2057	2078	2105	2119	2130	2148	2147	2113	2060	2024	2019	2014	2007
45.0	1007	1017	1026	1029	1034	1042	1062	1080	1082	1093	1099	1093	1090	1083	1083	1087	1083
47.5	700	707	719	716	714	715	715	723	726	725	724	725	720	720	726	731	729
50.0	635	641	648	651	652	655	662	666	667	667	670	669	663	661	664	659	659
52.5	590	595	601	605	610	614	620	619	615	617	616	620	618	620	618	613	613
55.0	545	550	555	560	564	567	573	568	562	563	565	564	572	579	580	575	575
57.5	485	486	495	498	503	511	513	509	502	501	502	507	516	526	527	523	522
60.0	413	421	431	434	441	456	458	455	447	445	448	451	458	463	460	455	453
62.5	300	298	319	365	383	394	402	397	392	390	392	395	404	395	392	379	331
65.0	262	260	260	276	308	317	321	322	319	317	316	318	321	317	308	283	263
67.5	238	237	234	237	242	248	251	251	247	247	248	248	251	251	244	235	233
70.0	227	230	226	218	225	230	233	229	228	225	225	228	234	233	225	212	209
72.5	227	229	225	219	225	232	234	228	227	222	224	223	231	230	220	206	204
75.0	225	228	224	216	222	231	232	222	220	213	213	216	221	222	211	200	197
77.5	206	210	210	208	212	221	221	210	203	202	199	196	204	204	193	186	184
80.0	196	195	197	200	206	214	216	209	207	204	202	197	207	203	194	182	176
82.5	179	187	190	191	206	212	206	194	185	180	182	177	174	176	171	159	153
85.0	118	124	130	135	149	152	147	141	140	138	138	136	137	136	128	112	110
87.5	71	75	82	94	101	107	107	97	96	96	96	94	98	91	87	80	74
90.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

*MAXIMUM CANDELA VALUE