

LUMINAIRE: HBL-60LU-5K-W-070-WH
 HBL Severe Location, Highbay
 18" diameter Led with custom engineered TIR optics
BALLAST: LXMG2203
BALLAST FACTOR: 1.00
LAMP: Led
FIXTURE LUMENS: 13467
WATTS: 136.00
MOUNTING: Specialty
SHIELDING ANGLE: 0° = 90 90° = 90
SPACING CRITERION: 0° = 3.71 90° = 3.71
LUMINOUS OPENING IN FEET
 LENGTH: 0.79
 WIDTH: 0.79
 HEIGHT: 0.00

TEST #4930
 DATE: 2/21/2012

TOTAL LUMINAIRE EFFICIENCY = 100.0
TOTAL LUMENS PER WATT = 99

ANSI/IESNA RP-1-2004 COMPLIANCE: NONCOMPLIANT
COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$2.42
BASED ON 3000 HRS. AND \$.08 PER KWH

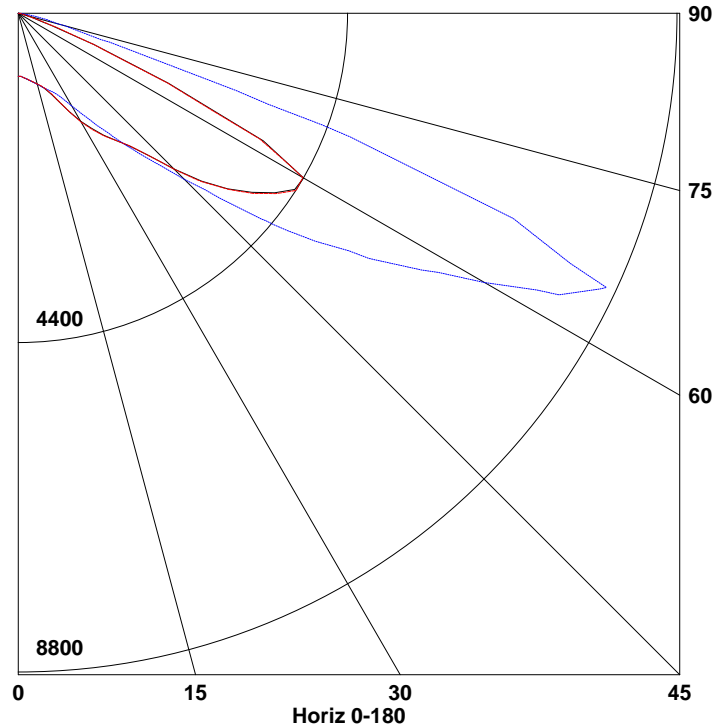
ZONAL LUMENS

ZONE	LUMENS	% LAMP	% FIXTURE
0-30	963	7.2	7.2
0-40	2206	16.4	16.4
0-60	9021	67.0	67.0
0-90	13467	100.0	100.0
0-180	13467	100.0	100.0

AVERAGE LUMINANCE

ANGLE	CANDELA/SQ M					
	0.0	20.0	40.0	60.0	80.0	90.0
0	14505	14505	14505	14505	14505	14505
30	33179	32123	28598	30271	33159	33438
40	52144	55318	53404	55093	52977	51986
45	71710	77905	76466	77442	73929	71832
50	97829	109420	114277	110976	101531	98124
55	125690	145987	167397	151430	131825	126232
60	151741	185648	241253	204034	158674	151430
65	90028	149407	347296	214295	102352	89334
70	22945	30257	133179	42057	25415	23600
75	8063	12395	32919	16393	9729	7863
80	3874	5066	17978	6158	4072	3973
85	4156	3760	6531	4354	3562	4354

INDOOR CANDELA PLOT



0.0 ——— 45.0 ——— 90.0 ———

COEFFICIENTS OF UTILIZATION (%)

RC	EFFECTIVE FLOOR CAVITY REFLECTANCE = 20%																		
	80%				70%				50%				30%						
	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%	
RW	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
	1	108	102	97	93	105	100	96	92	96	92	89	92	89	86	88	86	83	81
	2	95	85	78	71	92	84	76	70	80	74	68	76	71	67	73	69	65	63
	3	84	72	62	54	81	70	61	53	67	59	52	64	57	51	61	55	50	48
R	4	75	60	50	42	72	59	49	41	56	48	41	54	46	40	51	45	39	37
C	5	67	51	41	33	64	50	40	32	48	39	32	46	38	32	44	37	31	29
R	6	60	44	34	26	58	43	33	26	41	32	26	40	31	25	38	31	25	23
	7	55	39	29	21	53	38	28	21	36	27	21	35	27	21	33	26	20	18
	8	50	34	24	18	48	34	24	18	32	24	17	31	23	17	30	22	17	15
	9	46	31	21	15	45	30	21	15	29	20	15	28	20	14	27	20	14	12
	10	43	28	19	13	41	27	18	13	26	18	13	25	18	12	24	17	12	10

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	841	841	841	841	841	841	841	841	841	841	841	841	841	841	841	841	841
2.5	844	847	841	847	842	846	840	843	836	843	837	844	839	845	842	847	840
5.0	864	867	862	868	863	866	860	865	857	866	857	865	862	866	861	866	860
7.5	883	888	882	889	884	888	881	886	880	886	880	886	882	887	882	887	879
10.0	916	920	913	918	912	917	910	916	911	916	909	913	910	913	909	916	910
12.5	944	948	940	948	941	946	940	945	941	946	937	943	940	942	938	943	937
15.0	977	985	977	984	979	983	977	983	978	983	975	981	977	981	976	981	977
17.5	1022	1030	1022	1029	1022	1027	1020	1024	1018	1024	1016	1023	1020	1022	1016	1025	1015
20.0	1086	1093	1087	1089	1079	1080	1073	1075	1067	1073	1064	1072	1070	1074	1070	1078	1074
22.5	1179	1185	1175	1174	1154	1148	1134	1131	1119	1121	1114	1125	1127	1138	1143	1158	1164
25.0	1315	1320	1306	1296	1268	1250	1220	1207	1187	1187	1183	1202	1217	1242	1262	1289	1299
27.5	1483	1489	1474	1460	1424	1396	1345	1319	1286	1283	1280	1311	1342	1391	1425	1458	1474
30.0	1666	1673	1659	1646	1613	1580	1523	1478	1436	1432	1433	1473	1520	1579	1617	1651	1665
32.5	1822	1837	1833	1824	1801	1776	1718	1668	1619	1610	1619	1668	1719	1777	1809	1832	1841
35.0	1987	1997	2002	2011	2003	1989	1938	1891	1836	1826	1839	1892	1941	1991	2004	2014	2007
37.5	2138	2156	2170	2202	2213	2219	2179	2138	2084	2074	2084	2138	2181	2214	2213	2201	2172
40.0	2316	2335	2365	2420	2457	2480	2453	2415	2372	2362	2367	2412	2447	2471	2450	2410	2353
42.5	2578	2601	2646	2725	2780	2810	2778	2745	2709	2708	2709	2736	2764	2792	2772	2718	2642
45.0	2940	2965	3024	3126	3194	3224	3182	3154	3135	3138	3129	3141	3175	3216	3193	3129	3031
47.5	3318	3346	3425	3558	3654	3696	3658	3639	3650	3662	3646	3637	3657	3694	3665	3570	3437
50.0	3646	3678	3771	3945	4078	4141	4131	4179	4259	4309	4262	4183	4136	4135	4086	3952	3784
52.5	3929	3968	4085	4305	4472	4539	4564	4718	4903	5002	4912	4716	4569	4537	4486	4316	4105
55.0	4180	4220	4368	4645	4855	4939	5033	5294	5567	5700	5568	5289	5036	4936	4867	4653	4384
57.5	4378	4424	4592	4929	5179	5278	5490	5895	6231	6380	6238	5885	5485	5261	5171	4923	4598
60.0	4399	4418	4604	5028	5382	5567	5933	6532	6994	7191	7005	6523	5915	5521	5361	5017	4600
62.5	3688	3707	3919	4434	4954	5364	6180	7295	7947	8144	7951	7277	6137	5292	4907	4403	3889
65.0	2206	2262	2539	3082	3661	4099	5318	7493	8510	8665*	8500	7441	5251	4034	3614	3063	2508
67.5	1097	1120	1235	1451	1730	2025	2773	4507	6559	7153	6480	4483	2732	2022	1745	1468	1232
70.0	455	459	486	549	600	651	827	1347	2641	3561	2673	1351	834	659	608	572	504
72.5	215	226	241	276	293	330	426	618	950	1278	946	611	422	325	287	269	233
75.0	121	137	151	176	186	202	248	383	494	638	493	382	246	198	181	170	146
77.5	61	73	79	95	100	113	130	220	315	387	315	223	128	110	98	93	79
80.0	39	48	42	51	51	61	62	107	181	243	183	108	62	60	50	49	41
82.5	27	34	28	33	27	37	32	47	74	112	72	47	34	35	26	32	28
85.0	21	24	17	24	19	27	23	30	33	47	31	31	22	26	18	23	18
87.5	9	15	8	16	12	20	16	20	14	21	14	19	11	17	8	14	7
90.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

*MAXIMUM CANDELA VALUE



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CANDELA VALUES

ANGLE	85.0	90.0
0.0	841	841
2.5	848	843
5.0	868	865
7.5	888	883
10.0	919	913
12.5	948	941
15.0	985	977
17.5	1027	1018
20.0	1082	1076
22.5	1174	1169
25.0	1316	1312
27.5	1493	1490
30.0	1682	1679
32.5	1847	1839
35.0	2008	1997
37.5	2157	2142
40.0	2326	2309
42.5	2593	2579
45.0	2972	2945
47.5	3355	3330
50.0	3683	3657
52.5	3982	3953
55.0	4234	4198
57.5	4438	4401
60.0	4415	4390
62.5	3683	3638
65.0	2270	2189
67.5	1120	1086
70.0	486	468
72.5	221	208
75.0	134	118
77.5	74	62
80.0	48	40
82.5	37	32
85.0	26	22
87.5	14	10
90.0	0	0