

**LUMINAIRE:** HBL-60LU-5K-N-070-WH  
 HBL Severe Location, Highbay  
 18" diameter Led with custom engineered TIR optics  
**BALLAST:** LXMG2203  
**BALLAST FACTOR:** 1.00  
**LAMP:** Led  
**FIXTURE LUMENS:** 14063  
**WATTS:** 135.00  
**MOUNTING:** Specialty  
**SHIELDING ANGLE:** 0° = 90 90° = 90  
**SPACING CRITERION:** 0° = 0.96 90° = 0.96  
**LUMINOUS OPENING IN FEET**  
 LENGTH: 0.79  
 WIDTH: 0.79  
 HEIGHT: 0.00

TEST #5056\_1  
 DATE: 4/3/2012

**TOTAL LUMINAIRE EFFICIENCY = 100.0**  
**TOTAL LUMENS PER WATT = 104**

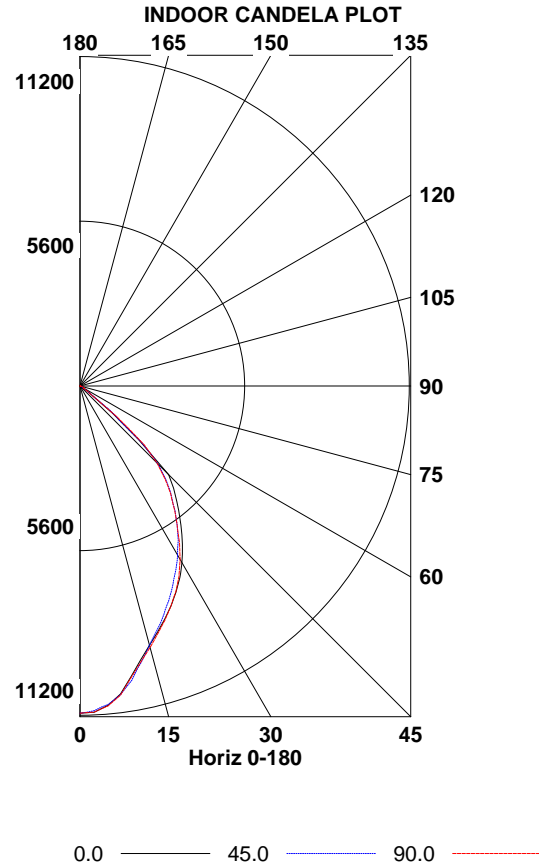
**ANSI/IESNA RP-1-2004 COMPLIANCE: YES-VDT NORMAL USE**  
**COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$2.31**  
**BASED ON 3000 HRS. AND \$.08 PER KWH**

**ZONAL LUMENS**

ZONE	LUMENS	% LAMP	% FIXTURE
0-30	7098	50.5	50.5
0-40	10751	76.4	76.4
0-60	13876	98.7	98.7
0-90	14061	100.0	100.0
90-120	2	0.0	0.0
90-130	2	0.0	0.0
90-150	2	0.0	0.0
90-180	2	0.0	0.0
0-180	14063	100.0	100.0

**AVERAGE LUMINANCE**

ANGLE	CANDELA/SQ M					
	0.0	20.0	40.0	60.0	80.0	90.0
0	191839	191839	191839	191839	191839	191839
30	137953	136499	132217	133950	135882	135543
40	115342	112978	108925	107642	108430	107957
45	104004	98930	92467	89808	91174	90589
50	38450	39604	42099	43199	43816	43924
55	7337	7818	9051	8961	8540	8510
60	3449	3139	3242	3380	3863	6002
65	4040	3346	3510	3346	4408	5591
70	4236	3832	3530	3984	5396	4639
75	2932	4998	4198	4398	5198	3265
80	2682	4867	3874	4768	4072	3079
85	3562	6135	4354	5343	4750	4156



**COEFFICIENTS OF UTILIZATION (%)**

RC	EFFECTIVE FLOOR CAVITY REFLECTANCE = 20%																			
	80%				70%				50%				30%				10%		0%	
	70%	50%	30%	10%	70%	50%	30%	10%	70%	50%	30%	10%	70%	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	102	100
	1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92	92
	2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83	83
	3	99	92	86	82	97	91	85	81	88	83	80	85	82	78	83	80	77	75	75
R	4	93	85	78	73	91	83	77	73	81	76	72	79	75	71	77	73	70	68	68
C	5	88	78	71	66	86	77	71	66	75	69	65	73	68	65	72	67	64	62	62
R	6	82	72	65	60	81	71	65	60	69	64	59	68	63	59	67	62	58	57	57
	7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52	52
	8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48	48
	9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44	44
	10	65	54	47	43	64	53	47	43	52	47	43	52	46	42	51	46	42	41	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	85.0	90.0
0.0	11123	11123
2.5	11079	11095
5.0	10894	10923
7.5	10571	10597
10.0	10038	10053
12.5	9579	9595
15.0	9182	9199
17.5	8803	8816
20.0	8449	8455
22.5	8090	8092
25.0	7716	7716
27.5	7293	7292
30.0	6810	6806
32.5	6292	6285
35.0	5758	5759
37.5	5276	5262
40.0	4803	4795
42.5	4298	4287
45.0	3717	3714
47.5	2957	2955
50.0	1633	1637
52.5	452	453
55.0	284	283
57.5	137	142
60.0	118	174
62.5	139	174
65.0	130	137
67.5	123	131
70.0	101	92
72.5	85	72
75.0	56	49
77.5	44	38
80.0	32	31
82.5	25	27
85.0	20	21
87.5	10	11
90.0	3	2
92.5	0	0
95.0	0	2
97.5	2	4
100.0	0	1
102.5	0	2
105.0	0	1
107.5	0	0
110.0	0	2
112.5	0	0
115.0	0	0
117.5	0	0
120.0	0	0
122.5	0	0
125.0	0	0
127.5	0	0
130.0	0	0
132.5	0	0
135.0	0	0
137.5	0	0
140.0	0	0
142.5	0	0
145.0	0	0
147.5	0	0
150.0	0	0
152.5	0	0
155.0	0	0
157.5	0	0
160.0	0	0
162.5	0	0
165.0	0	0
167.5	0	0
170.0	0	0
172.5	0	0
175.0	0	0
177.5	0	0
180.0	0	0