

**LUMINAIRE:** LLHP3-50VL-W-EU  
 LLHP Led High Bay, Industrial  
 11" x 36" led with wide distribution optics  
**BALLAST:** (3) PISE-Z202B  
**BALLAST FACTOR:** 1.00  
**LAMP:** Led  
**FIXTURE LUMENS:** 42148  
**WATTS:** 424.70  
**MOUNTING:** Pendant  
**SHIELDING ANGLE:** 0° = 90 90° = 90  
**SPACING CRITERION:** 0° = 1.13 90° = 1.12  
**LUMINOUS OPENING IN FEET**  
 LENGTH: 3.00  
 WIDTH: 0.79  
 HEIGHT: 0.02

TEST #14.00175  
 DATE: 8/26/2014

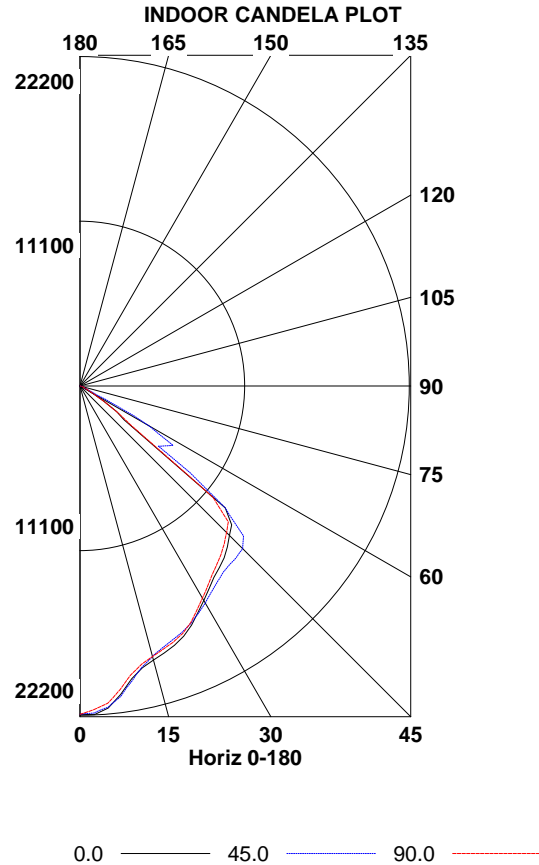
**TOTAL LUMINAIRE EFFICIENCY = 100.0**  
**TOTAL LUMENS PER WATT = 99**  
**ANSI/IESNA RP-1-2004 COMPLIANCE: NONCOMPLIANT**  
**COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$2.42**  
**BASED ON 3000 HRS. AND \$.08 PER KWH**

**ZONAL LUMENS**

ZONE	LUMENS	% LAMP	% FIXTURE
0-30	15533	36.9	36.9
0-40	25514	60.5	60.5
0-60	41165	97.7	97.7
0-90	42147	100.0	100.0
90-120	1	0.0	0.0
90-130	1	0.0	0.0
90-150	1	0.0	0.0
90-180	1	0.0	0.0
0-180	42148	100.0	100.0

**AVERAGE LUMINANCE**

ANGLE	CANDELA/SQ M				
	0.0	22.5	45.0	67.5	90.0
0	100504	100504	100504	100504	100504
30	87146	86610	87394	85777	85239
40	89098	90193	91343	88158	85898
45	90858	93830	97443	91167	87489
50	89567	85880	88012	80443	80536
55	23594	27325	53978	26686	22926
60	9061	12404	47219	12387	9659
65	3454	3201	5473	3125	4536
70	3091	2800	2988	2715	2918
75	2774	3430	3512	3344	2437
80	2747	4008	3338	3739	2722
85	2809	4412	2940	4341	2627



**COEFFICIENTS OF UTILIZATION (%)**

RC	EFFECTIVE FLOOR CAVITY REFLECTANCE = 20%																	
	ZONAL CAVITY METHOD																	
	80%				70%				50%				30%				10%	0%
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	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	80
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
R	4	90	80	72	67	87	78	72	66	70	66	74	69	65	72	68	64	62
C	5	83	72	65	59	81	71	64	59	63	58	67	62	58	66	61	57	55
R	6	77	66	58	52	75	65	57	52	63	57	62	56	51	60	55	51	49
	7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	44
	8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	40
	9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	36
	10	59	47	40	35	58	46	39	35	45	39	35	44	39	34	44	38	33

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	22.5	45.0	67.5	90.0
0.0	22129	22129	22129	22129	22129
2.5	22171*	22116	22055	21975	21822
5.0	21786	21767	21722	21628	21463
7.5	20969	21049	21102	20891	20639
10.0	20035	20135	20184	19981	19760
12.5	19448	19435	19388	19330	19203
15.0	19120	19041	18865	18960	18880
17.5	18873	18739	18498	18653	18613
20.0	18597	18445	18210	18370	18366
22.5	18252	18086	17963	18020	18063
25.0	17780	17653	17669	17594	17624
27.5	17209	17152	17278	17097	17043
30.0	16681	16666	16882	16601	16491
32.5	16190	16266	16469	16173	16002
35.0	15740	15873	16121	15759	15519
37.5	15419	15611	15840	15445	15150
40.0	15112	15415	15699	15193	14796
42.5	14706	15172	15628	14943	14401
45.0	14240	14840	15514	14562	13966
47.5	13859	14114	14949	13855	13562
50.0	12777	12384	12792	11737	11742
52.5	3738	4372	6656	4695	4268
55.0	3008	3529	7037	3495	3000
57.5	1880	2706	7440	2646	1911
60.0	1009	1403	5402	1425	1110
62.5	487	506	1812	548	633
65.0	326	308	534	307	445
67.5	293	252	352	250	327
70.0	237	220	239	219	235
72.5	204	214	217	213	196
75.0	162	207	217	209	152
77.5	123	186	203	187	123
80.0	109	167	144	164	119
82.5	88	145	97	143	92
85.0	58	100	71	108	65
87.5	28	52	44	61	36
90.0	5	13	8	14	4
92.5	0	0	0	0	0
95.0	0	0	0	0	0
97.5	0	0	0	0	0
100.0	0	0	0	0	0
102.5	0	0	0	0	0
105.0	0	0	0	0	0
107.5	0	0	0	0	0
110.0	0	0	0	0	0
112.5	0	0	0	0	0
115.0	0	0	0	0	0
117.5	0	0	0	0	0
120.0	0	0	0	0	0
122.5	0	0	0	0	0
125.0	0	0	0	0	0
127.5	0	0	0	0	0
130.0	0	0	0	0	0
132.5	0	0	0	0	0
135.0	0	0	0	0	0
137.5	0	0	0	0	0
140.0	0	0	0	0	0
142.5	0	0	0	0	0
145.0	0	0	0	0	0
147.5	0	0	0	0	0
150.0	0	0	0	0	0
152.5	0	0	0	0	0
155.0	0	0	0	0	0
157.5	0	0	0	0	0
160.0	0	0	0	0	0
162.5	0	0	0	0	0
165.0	0	0	0	0	0
167.5	0	0	0	0	0
170.0	0	0	0	0	0
172.5	0	0	0	0	0
175.0	0	0	0	0	0
177.5	0	0	0	0	0
180.0	0	0	0	0	0

\*MAXIMUM CANDELA VALUE