

LUMINAIRE: LLHP3-50VL-A-EU
 LLHP Led High Bay, Industrial
 11" x 36" led with aisle distribution optics
BALLAST: (3) PISE-Z202B
BALLAST FACTOR: 1.00
LAMP: Led
FIXTURE LUMENS: 37937
WATTS: 424.60
MOUNTING: Pendant
SHIELDING ANGLE: 0° = 90 90° = 90
SPACING CRITERION: 0° = 0.52 90° = 0.85
LUMINOUS OPENING IN FEET
 LENGTH: 0.79
 WIDTH: 3.00
 HEIGHT: 0.02

TEST #14.00173
 DATE: 8/25/2014

TOTAL LUMINAIRE EFFICIENCY = 100.0
TOTAL LUMENS PER WATT = 89

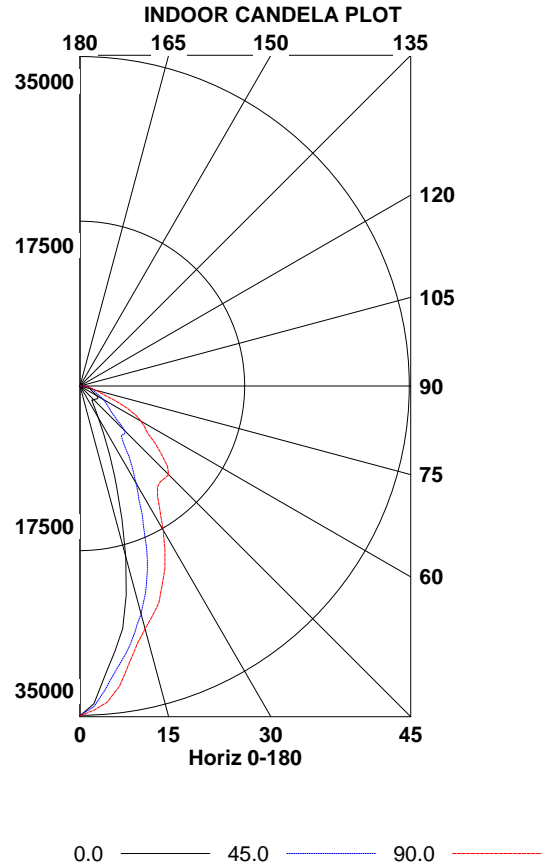
ANSI/IESNA RP-1-2004 COMPLIANCE: NONCOMPLIANT
COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$2.70
BASED ON 3000 HRS. AND \$.08 PER KWH

ZONAL LUMENS

ZONE	LUMENS	% LAMP	% FIXTURE
0-30	16673	43.9	43.9
0-40	22413	59.1	59.1
0-60	32116	84.7	84.7
0-90	37858	99.8	99.8
90-120	79	0.2	0.2
90-130	79	0.2	0.2
90-150	79	0.2	0.2
90-180	79	0.2	0.2
0-180	37937	100.0	100.0

AVERAGE LUMINANCE

ANGLE	CANDELA/SQ M				
	0.0	22.5	45.0	67.5	90.0
0	159079	159079	159079	159079	159079
30	19874	27530	61593	99077	92396
40	11390	13439	39769	74571	78303
45	12892	13942	42911	63759	84975
50	14870	16278	30259	64708	79388
55	17592	19249	27269	74968	68953
60	17813	20176	24484	57041	67367
65	15463	18416	20704	46708	57458
70	15855	18606	20116	43329	35496
75	17091	20431	24532	45529	29193
80	21636	22208	25245	53900	25555
85	35243	28739	28655	59783	33944



COEFFICIENTS OF UTILIZATION (%)

ZONAL CAVITY METHOD

RC	EFFECTIVE FLOOR CAVITY REFLECTANCE = 20%																		
	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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86	
2	102	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75	
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66	
R	4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	58	
C	5	82	70	62	56	80	69	62	56	67	61	56	65	59	55	63	58	52	
R	6	76	64	57	51	74	64	56	51	62	55	50	60	54	50	59	54	48	
	7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	43	
	8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	40	
	9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	37	
	10	60	48	41	37	59	48	41	37	47	41	36	46	40	36	45	40	35	

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	35026*	35026	35026	35026	35026
2.5	33786	33781	34092	34429	34473
5.0	30795	31066	32149	33246	33684
7.5	28436	28853	30254	31660	32158
10.0	26169	26653	28648	29943	29951
12.5	22728	23855	26856	28251	28072
15.0	18761	20618	25090	26754	26716
17.5	14799	17363	23107	25531	25607
20.0	11405	14352	20936	24326	24494
22.5	8564	11853	18424	23232	22847
25.0	6644	9440	15847	22075	21359
27.5	5035	7123	13560	20692	19561
30.0	3845	5328	11898	19065	17686
32.5	3000	4081	10403	17138	15835
35.0	2645	3220	8970	15407	14385
37.5	2242	2618	7576	13793	13512
40.0	1962	2316	6835	12745	13281
42.5	2011	2241	6943	11406	13299
45.0	2058	2227	6832	10084	13318
47.5	2099	2280	5301	9363	12605
50.0	2168	2375	4398	9331	11325
52.5	2251	2452	3932	9631	10125
55.0	2302	2521	3555	9682	8791
57.5	2252	2459	3201	8414	8159
60.0	2047	2321	2801	6452	7502
62.5	1745	2084	2405	5368	6674
65.0	1517	1809	2020	4494	5423
67.5	1377	1619	1751	3857	4003
70.0	1277	1501	1609	3405	2722
72.5	1159	1377	1529	3201	2063
75.0	1066	1277	1516	2748	1705
77.5	1005	1151	1378	2367	1247
80.0	946	974	1089	2246	1014
82.5	929	849	892	1869	882
85.0	872	715	692	1355	701
87.5	656	565	523	811	542
90.0	335	311	246	410	171
92.5	155	102	65	58	35
95.0	112	43	35	4	1
97.5	46	23	8	3	1
100.0	18	15	8	3	1
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