

LUMINAIRE: LLHP2-40L-A-EU
 LLHP Led High Bay, Industrial
 11" x 24" led with aisle distribution optics
BALLAST: TRC-152Q70DT
BALLAST FACTOR: 1.00
LAMP: Led
FIXTURE LUMENS: 12182
WATTS: 140.10
MOUNTING: Pendant
SHIELDING ANGLE: 0° = 90 90° = 90
SPACING CRITERION: 0° = 0.88 90° = 0.52
LUMINOUS OPENING IN FEET
 LENGTH: 0.61
 WIDTH: 0.61
 HEIGHT: 0.02

TEST #ITL76642
 DATE: 3/18/2013

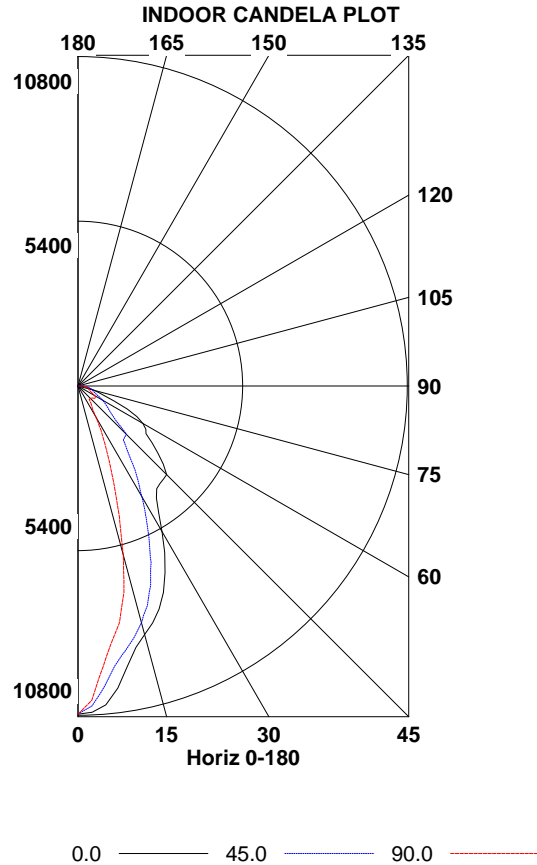
TOTAL LUMINAIRE EFFICIENCY = 100.0
TOTAL LUMENS PER WATT = 87
ANSI/IESNA RP-1-2004 COMPLIANCE: NONCOMPLIANT
COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$2.76
BASED ON 3000 HRS. AND \$.08 PER KWH

ZONAL LUMENS

ZONE	LUMENS	% LAMP	% FIXTURE
0-30	5311	43.6	43.6
0-40	7205	59.1	59.1
0-60	10279	84.4	84.4
0-90	12150	99.7	99.7
90-120	33	0.3	0.3
90-130	33	0.3	0.3
90-150	33	0.3	0.3
90-180	33	0.3	0.3
0-180	12182	100.0	100.0

AVERAGE LUMINANCE

ANGLE	CANDELA/SQ M					
	0.0	15.0	35.0	55.0	75.0	90.0
0	311260	311260	311260	311260	311260	311260
30	180695	203611	184951	89563	47238	38617
40	153399	135348	159113	37642	23270	20911
45	162761	116890	135718	34624	24817	22697
50	147950	129144	98507	34315	29634	26550
55	131140	156021	87543	36409	36346	33291
60	134785	118572	79618	38871	39109	34381
65	113962	95289	69077	36409	33906	30697
70	71150	70995	66433	36824	34355	32432
75	54572	58710	79165	42495	39075	35053
80	48041	68387	82040	48827	40028	43405
85	57220	85084	84400	50814	52324	68085



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	110	106	102	98	107	103	100	97	99	96	93	95	93	91	91	90	88	86
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	94	85	77	72	92	83	76	71	80	75	70	77	73	69	75	71	67	65
R	4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	58
C	5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	52
R	6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	47
	7	71	59	52	46	70	59	51	46	57	50	46	56	50	45	54	49	43
	8	67	55	48	42	66	54	47	42	53	47	42	52	46	42	51	46	40
	9	63	51	44	39	62	51	44	39	50	43	39	49	43	39	48	42	37
	10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	34

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	15.0	25.0	35.0	45.0	55.0	65.0	75.0	85.0	90.0
0.0	10760*	10760	10760	10760	10760	10760	10760	10760	10760	10760	10760
2.5	10706	10705	10684	10637	10572	10501	10445	10390	10340	10324	10318
5.0	10495	10488	10423	10296	10117	9900	9687	9499	9363	9286	9282
7.5	9990	9991	9948	9811	9564	9260	8967	8716	8541	8464	8460
10.0	9324	9341	9363	9269	9079	8838	8545	8230	7981	7872	7863
12.5	8780	8816	8860	8838	8728	8454	8018	7542	7185	6988	6956
15.0	8440	8472	8492	8525	8435	8039	7371	6685	6177	5796	5737
17.5	8142	8146	8146	8254	8135	7554	6611	5734	5104	4592	4511
20.0	7781	7786	7831	7961	7779	6966	5766	4812	4159	3571	3484
22.5	7322	7353	7566	7655	7334	6265	4909	4029	3363	2760	2687
25.0	6753	6839	7234	7282	6796	5513	4083	3299	2636	2129	2086
27.5	6156	6264	6779	6790	6233	4811	3323	2573	2009	1666	1631
30.0	5512	5627	6237	6204	5683	4201	2752	1928	1447	1211	1178
32.5	4922	5055	5658	5698	5156	3664	2209	1418	1093	903	881
35.0	4485	4603	4962	5298	4670	3139	1703	1071	891	791	775
37.5	4242	4241	4252	4931	4351	2644	1281	849	735	692	691
40.0	4174	4017	3705	4674	4375	2316	1035	719	637	579	569
42.5	4143	3829	3253	4150	4332	2268	938	684	623	579	574
45.0	4109	3714	2972	3475	3469	2246	885	678	631	580	573
47.5	3792	3662	2903	3137	2745	1701	841	693	657	595	587
50.0	3416	3471	3007	3005	2308	1435	804	719	690	619	613
52.5	3061	3072	3236	2982	2022	1282	785	738	747	665	660
55.0	2722	2691	3271	2928	1849	1168	769	746	762	706	691
57.5	2637	2408	2705	2597	1683	1053	748	738	755	666	684
60.0	2462	2200	2192	2087	1485	931	725	718	723	623	628
62.5	2183	1959	1846	1792	1291	804	661	662	637	545	547
65.0	1782	1565	1512	1545	1108	691	584	586	538	476	480
67.5	1284	1137	1161	1357	967	604	532	530	488	434	440
70.0	917	838	932	1183	884	551	490	489	451	383	418
72.5	703	631	757	1103	852	517	463	449	424	350	379
75.0	548	497	604	963	829	495	445	419	402	334	352
77.5	426	404	535	821	665	437	404	382	356	317	333
80.0	342	335	504	864	620	361	369	323	295	309	309
82.5	297	299	455	683	501	297	303	271	264	305	303
85.0	237	244	374	467	387	231	233	232	230	291	282
87.5	200	219	301	337	244	182	171	169	202	261	208
90.0	71	114	169	199	130	92	89	99	148	205	80
92.5	0	0	4	23	18	21	39	32	75	117	44
95.0	0	0	1	1	3	9	14	13	37	45	30
97.5	0	0	0	0	0	0	3	4	16	22	17
100.0	0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0	0

*MAXIMUM CANDELA VALUE