

LUMINAIRE: LLHP2-40H-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: 23236
WATTS: 281.10
MOUNTING: Pendant
SHIELDING ANGLE: 0° = 90 90° = 90
SPACING CRITERION: 0° = 0.87 90° = 0.54
LUMINOUS OPENING IN FEET
 LENGTH: 1.75
 WIDTH: 0.61
 HEIGHT: 0.02

TEST #ITL76643
 DATE: 3/19/2013

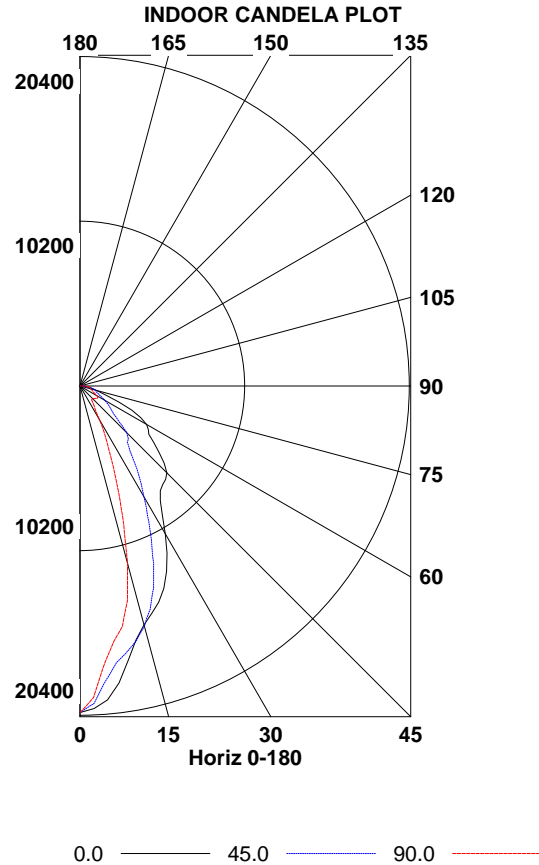
TOTAL LUMINAIRE EFFICIENCY = 100.0
TOTAL LUMENS PER WATT = 83
ANSI/IESNA RP-1-2004 COMPLIANCE: NONCOMPLIANT
COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$2.89
BASED ON 3000 HRS. AND \$.08 PER KWH

ZONAL LUMENS

ZONE	LUMENS	% LAMP	% FIXTURE
0-30	10088	43.4	43.4
0-40	13732	59.1	59.1
0-60	19565	84.2	84.2
0-90	23171	99.7	99.7
90-120	64	0.3	0.3
90-130	64	0.3	0.3
90-150	64	0.3	0.3
90-180	64	0.3	0.3
0-180	23236	100.0	100.0

AVERAGE LUMINANCE

ANGLE	CANDELA/SQ M					
	0.0	15.0	35.0	55.0	75.0	90.0
0	203874	203874	203874	203874	203874	203874
30	122273	136779	124215	60370	33571	27642
40	103950	92079	106150	25928	15733	14220
45	107306	80257	92896	23210	16553	15409
50	98877	87428	66932	22991	19765	17875
55	90050	102531	59065	24598	24072	22234
60	94031	80876	54013	26193	25837	23090
65	82395	65816	47813	25091	23165	20865
70	52138	48910	48380	25680	23421	21690
75	39944	41179	54537	30206	27325	23535
80	36319	50659	57480	34905	29073	29868
85	46560	65738	61701	37340	37963	46707



COEFFICIENTS OF UTILIZATION (%)

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	105	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	85	82	78	82	79	76	74	
3	94	85	77	72	91	83	76	71	80	74	70	77	73	69	75	71	67	65	
R	4	87	77	69	63	85	75	68	62	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	49	58	53	47	
	7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	43	
	8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	40	
	9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	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: _____

LUMINAIRE: LLHP2-40H-A-EU
LLHP Led High Bay, Industrial
11" x 24" led with aisle distribution optics

TEST #ITL76643
DATE: 3/19/2013

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	20219*	20219	20219	20219	20219	20219	20219	20219	20219	20219	20219
2.5	19996	19982	19998	19944	19824	19684	19562	19436	19350	19308	19312
5.0	19512	19478	19377	19114	18738	18317	17944	17623	17406	17294	17293
7.5	18550	18515	18412	18162	17767	17276	16798	16384	16124	15989	15976
10.0	17237	17245	17374	17343	17121	16719	16192	15650	15300	15139	15120
12.5	16086	16145	16472	16639	16596	16143	15325	14464	13910	13631	13592
15.0	15312	15397	15795	16123	16100	15402	14154	12893	12032	11478	11370
17.5	14776	14833	15280	15695	15568	14480	12709	11102	9994	9178	9024
20.0	14249	14287	14800	15214	14903	13320	11066	9323	8180	7200	7017
22.5	13563	13640	14303	14657	14049	11935	9385	7795	6608	5525	5354
25.0	12673	12844	13668	13944	13007	10448	7749	6349	5196	4208	4097
27.5	11671	11900	12867	13027	11901	9064	6310	4967	3964	3285	3210
30.0	10571	10798	11880	11936	10842	7927	5285	3803	2941	2478	2419
32.5	9498	9744	10756	10933	9869	6962	4283	2852	2222	1861	1815
35.0	8670	8883	9451	10059	8973	5996	3320	2144	1765	1573	1542
37.5	8171	8188	8170	9363	8332	5088	2508	1672	1427	1357	1355
40.0	7973	7692	7110	8772	8255	4541	2025	1403	1230	1124	1110
42.5	7850	7293	6287	7864	8055	4445	1800	1316	1191	1123	1118
45.0	7611	7034	5738	6682	6698	4104	1682	1297	1201	1125	1116
47.5	7062	6842	5561	5994	5281	3322	1594	1318	1248	1156	1143
50.0	6389	6447	5703	5728	4410	2768	1524	1360	1312	1194	1184
52.5	5752	5777	6052	5634	3849	2463	1493	1403	1403	1273	1262
55.0	5206	5121	5995	5466	3495	2234	1466	1428	1437	1345	1324
57.5	5020	4626	5035	4809	3174	2014	1424	1405	1422	1284	1304
60.0	4755	4231	4146	3933	2809	1784	1374	1373	1358	1196	1210
62.5	4243	3796	3511	3432	2454	1557	1273	1289	1224	1060	1069
65.0	3538	3091	2874	3001	2125	1344	1127	1146	1043	928	936
67.5	2616	2267	2215	2664	1905	1170	1023	1036	946	826	844
70.0	1824	1632	1748	2342	1768	1074	951	957	870	746	802
72.5	1374	1231	1403	2097	1696	1022	905	887	824	691	739
75.0	1069	976	1134	1833	1547	983	872	839	792	659	678
77.5	827	785	1014	1582	1254	839	803	771	712	631	652
80.0	666	652	969	1553	1148	693	715	643	599	611	610
82.5	579	576	870	1303	914	576	577	543	530	599	592
85.0	455	462	695	827	705	446	446	460	458	567	555
87.5	356	394	545	564	434	343	332	334	398	508	446
90.0	121	169	252	288	194	188	173	192	281	385	238
92.5	34	33	43	64	45	54	76	65	136	214	106
95.0	15	12	5	12	9	19	24	26	68	90	65
97.5	1	0	0	0	1	0	3	9	28	41	38
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