



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L-7-XX-850-2-X-CA HO5.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L072111025  
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)  
 [ISSUE DATE] 9/7/2021  
 [MANUFAC] LUX DYNAMICS  
 [LUMCAT] L-7-TA-850-2-U10 HO5  
 [LUMINAIRE] LED LUMINAIRE  
 [BALLASTCAT] OSRAM OPTOTRONIC OT185/120-277/2A3 DIM L HB (7 DRIVER)  
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
 [INPUT] 277VAC  
 [TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	83182
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	153
Total Luminaire Watts	544.44
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	2.21 ft
Luminous Height	0.06 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	51799	62335	68668
55	42903	62612	78717
65	32496	67661	79614
75	19670	59027	56726
85	7542	26491	12849

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L-7-XX-850-2-X-CA HO5.IES**

**CANDELA TABULATION**

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
<b>0</b>	27164	27164	27164	27164	27164	27164	27164	27164	27164	27164
<b>5</b>	27046	27046	27049	27066	27018	26909	26821	26793	26824	26868
<b>10</b>	26616	26568	26524	26442	26456	26589	26780	26995	27223	27356
<b>15</b>	25961	25815	25678	25729	25978	26398	26677	26606	26541	26463
<b>20</b>	24979	24750	24703	24856	25262	25320	25334	25337	25337	25361
<b>25</b>	23635	23499	23465	23731	23850	23847	23826	23976	24174	23976
<b>30</b>	21937	21787	21828	22080	22128	22083	22373	22295	22206	22527
<b>35</b>	19884	19713	19907	20269	20122	20324	20259	20364	20866	21292
<b>40</b>	17435	17390	17847	18011	18015	18096	18284	18864	19406	19771
<b>45</b>	14904	14979	15463	15593	15723	15914	16507	17152	17595	18110
<b>50</b>	12476	12595	12946	13134	13421	13843	14682	15235	15856	16453
<b>55</b>	10143	10228	10450	10716	11163	11937	12646	13380	14185	15006
<b>60</b>	7926	7957	8114	8421	9065	9816	10726	11790	13052	14011
<b>65</b>	5782	5811	5953	6476	6993	7888	9112	10390	11466	12282
<b>70</b>	3838	3868	4055	4525	5244	6268	7467	8575	9504	10180
<b>75</b>	2243	2275	2520	2981	3668	4489	5409	6181	6809	6957
<b>80</b>	1085	1131	1341	1687	2120	2553	2943	3463	3882	4146
<b>85</b>	352	386	472	567	694	854	1041	1242	1347	1341
<b>90</b>	118	117	118	120	123	128	133	137	142	146
<b>95</b>	176	183	144	126	127	129	132	136	139	143
<b>100</b>	241	304	345	250	136	127	127	128	131	133
<b>105</b>	306	416	528	572	482	232	122	116	116	117
<b>110</b>	379	492	688	758	806	742	426	204	119	102
<b>115</b>	463	563	796	933	955	1003	984	775	455	245
<b>120</b>	544	629	844	1020	1093	1089	1122	1158	1058	861
<b>125</b>	609	681	861	1050	1149	1189	1185	1177	1233	1219
<b>130</b>	665	716	855	1015	1139	1214	1252	1248	1218	1229
<b>135</b>	699	736	849	968	1072	1158	1243	1284	1284	1261
<b>140</b>	707	736	815	892	1004	1097	1167	1240	1282	1297
<b>145</b>	703	723	779	867	927	1015	1078	1171	1195	1264
<b>150</b>	704	716	750	825	876	927	989	1002	1106	1171
<b>155</b>	709	718	736	763	823	849	883	940	965	971
<b>160</b>	703	706	712	725	743	777	796	807	835	863
<b>165</b>	679	680	686	691	700	707	722	737	749	754
<b>170</b>	671	672	673	678	683	689	695	700	706	713
<b>175</b>	691	691	690	688	687	689	691	695	699	702
<b>180</b>	715	715	715	715	715	715	715	715	715	715

**Vert. Angles**      **Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
<b>0</b>	27164	27164	27164	27164	27164	27164	27164	27164	27164
<b>5</b>	26920	26988	27066	27128	27179	27237	27271	27298	27325
<b>10</b>	27349	27308	27274	27257	27244	27237	27227	27223	27230
<b>15</b>	26439	26415	26350	26323	26391	26500	26582	26606	26609
<b>20</b>	25596	25586	25450	25317	25289	25330	25371	25368	25361
<b>25</b>	23946	24089	24324	24580	24679	24737	24774	24825	24815
<b>30</b>	22994	23175	23441	23645	23741	23901	23986	24051	24058
<b>35</b>	21763	22097	22285	22298	22411	22377	22319	22302	22305
<b>40</b>	20211	20607	20757	20706	20763	20828	20845	20856	20859
<b>45</b>	18598	18963	19126	19174	19304	19467	19573	19655	19679
<b>50</b>	16875	17268	17830	18465	19116	19618	19931	20044	20081
<b>55</b>	15798	16729	17418	17766	18001	18250	18397	18485	18506
<b>60</b>	14580	15215	15818	16354	16650	16794	16817	16790	16794

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L-7-XX-850-2-X-CA HO5.IES**

**CANDELA TABULATION - (Cont.)**

<b>65</b>	13046	13670	13911	13876	13876	13979	14040	14041	14049
<b>70</b>	10485	10614	10699	10635	10518	10373	10239	10094	10037
<b>75</b>	6940	6989	7098	7209	7122	6907	6646	6462	6380
<b>80</b>	4200	4072	3846	3523	3202	2946	2770	2667	2624
<b>85</b>	1264	1143	1007	867	748	674	616	587	579
<b>90</b>	150	153	156	159	161	163	164	165	165
<b>95</b>	146	149	152	155	157	159	161	162	162
<b>100</b>	135	138	140	142	144	146	148	149	149
<b>105</b>	118	119	120	121	123	124	125	126	127
<b>110</b>	102	102	103	103	104	106	107	108	108
<b>115</b>	145	104	91	91	92	92	94	95	95
<b>120</b>	580	380	252	183	153	129	114	108	106
<b>125</b>	1128	1008	855	688	558	465	404	367	356
<b>130</b>	1257	1254	1216	1156	1104	1049	1010	984	981
<b>135</b>	1228	1221	1237	1245	1241	1245	1244	1243	1248
<b>140</b>	1295	1280	1261	1231	1214	1217	1228	1235	1239
<b>145</b>	1291	1312	1316	1306	1297	1294	1300	1304	1303
<b>150</b>	1185	1229	1277	1294	1306	1332	1343	1352	1358
<b>155</b>	1058	1116	1153	1173	1189	1219	1253	1267	1273
<b>160</b>	899	916	941	949	991	1029	1058	1075	1077
<b>165</b>	763	764	787	803	816	820	828	836	841
<b>170</b>	717	718	718	719	725	731	736	735	737
<b>175</b>	707	711	716	721	727	732	734	739	738
<b>180</b>	715	715	715	715	715	715	715	715	715

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L-7-XX-850-2-X-CA HO5.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	9995.11	N.A.	12.00
0-30	21122.82	N.A.	25.40
0-40	34402.02	N.A.	41.40
0-60	61303.95	N.A.	73.70
0-80	77934.64	N.A.	93.70
0-90	79228.22	N.A.	95.20
10-90	76647.23	N.A.	92.10
20-40	24406.91	N.A.	29.30
20-50	38152.13	N.A.	45.90
40-70	37604.96	N.A.	45.20
60-80	16630.7	N.A.	20.00
70-80	5927.66	N.A.	7.10
80-90	1293.58	N.A.	1.60
90-110	403.56	N.A.	0.50
90-120	844.47	N.A.	1.00
90-130	1616.68	N.A.	1.90
90-150	3202.42	N.A.	3.80
90-180	3953.36	N.A.	4.80
110-180	3549.8	N.A.	4.30
0-180	83181.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	2580.98
10-20	7414.13
20-30	11127.71
30-40	13279.2
40-50	13745.21
50-60	13156.72
60-70	10703.03
70-80	5927.66
80-90	1293.58
90-100	165.64
100-110	237.92
110-120	440.91
120-130	772.20
130-140	878.10
140-150	707.65
150-160	462.42
160-170	220.94
170-180	67.57

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : L-7-XX-850-2-X-CA HO5.IES**

**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	108	108	108	103	103	103	98	98	98	95
1	108	103	98	95	104	100	96	93	95	92	89	90	88	85	86	84	82	79
2	98	89	82	76	94	87	81	75	83	77	73	79	74	70	75	71	68	66
3	89	78	70	63	86	76	68	62	72	66	61	69	64	59	66	61	57	55
4	81	69	60	53	78	67	59	53	64	57	51	61	55	50	59	53	49	47
5	74	61	52	46	72	60	52	45	57	50	44	55	48	43	53	47	42	40
6	69	55	46	40	66	54	46	39	52	44	39	50	43	38	48	42	37	35
7	64	50	41	35	62	49	41	35	47	40	34	45	39	34	43	38	33	31
8	59	46	37	31	57	45	37	31	43	36	30	41	35	30	40	34	30	28
9	55	42	34	28	54	41	33	28	40	32	27	38	32	27	37	31	27	25
10	52	39	31	25	50	38	30	25	37	30	25	35	29	25	34	28	24	22

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : L-7-XX-850-2-X-CA HO5.IES**

**UGR TABLE - CORRECTED**

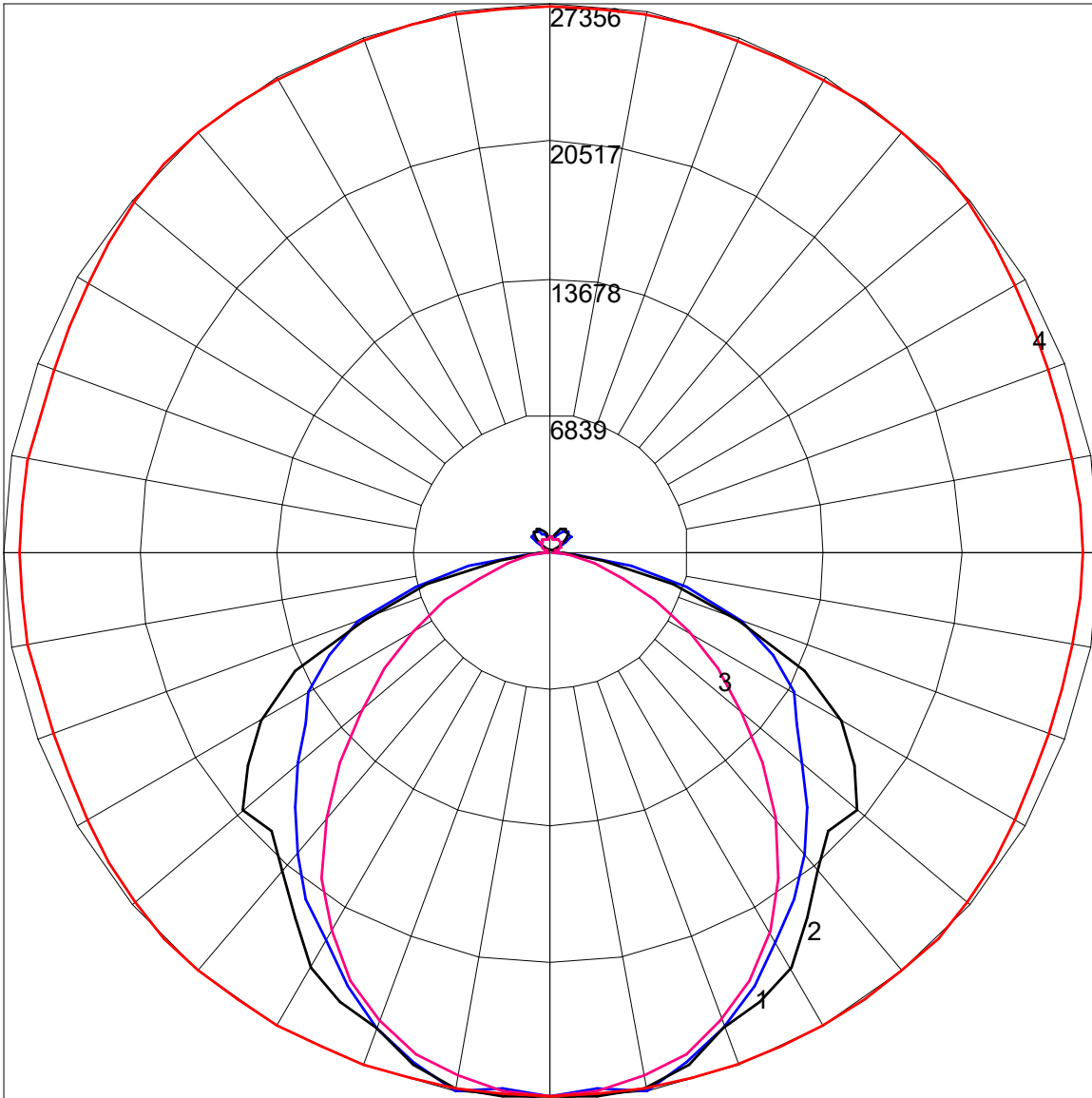
Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	24.1	25.6	24.5	26.0	26.5	28.0	29.5	28.4	29.9	30.4
	3H	25.2	26.6	25.6	27.0	27.5	29.9	31.3	30.3	31.7	32.2
	4H	25.5	26.8	25.9	27.2	27.7	30.4	31.8	30.9	32.2	32.7
	6H	25.6	26.8	26.1	27.3	27.8	30.7	31.9	31.2	32.4	32.9
	8H	25.6	26.8	26.1	27.3	27.8	30.7	31.9	31.2	32.4	32.9
	12H	25.6	26.7	26.1	27.2	27.8	30.7	31.8	31.2	32.3	32.8
4H	2H	25.7	27.1	26.2	27.5	28.0	28.5	29.8	29.0	30.3	30.7
	3H	27.3	28.3	27.7	28.8	29.4	30.7	31.8	31.2	32.3	32.8
	4H	27.7	28.7	28.2	29.2	29.7	31.4	32.4	31.9	32.9	33.4
	6H	27.9	28.8	28.4	29.3	29.9	31.7	32.6	32.3	33.1	33.7
	8H	27.9	28.7	28.5	29.3	29.8	31.8	32.6	32.3	33.1	33.7
	12H	27.9	28.7	28.5	29.2	29.8	31.8	32.5	32.3	33.1	33.7
8H	4H	28.5	29.4	29.1	29.9	30.5	31.6	32.4	32.2	33.0	33.6
	6H	28.9	29.6	29.5	30.2	30.8	32.1	32.8	32.7	33.3	33.9
	8H	29.0	29.6	29.6	30.2	30.8	32.2	32.8	32.8	33.4	34.0
	12H	29.1	29.6	29.6	30.2	30.8	32.2	32.7	32.8	33.3	34.0
12H	4H	28.6	29.4	29.2	29.9	30.5	31.6	32.4	32.2	32.9	33.5
	6H	29.1	29.7	29.7	30.3	30.9	32.1	32.7	32.7	33.3	33.9
	8H	29.3	29.8	29.8	30.4	31.0	32.2	32.8	32.8	33.4	34.0

Maximum UGR = 34.0

POLAR GRAPH



- Maximum Candela = 27356 Located At Horizontal Angle = 45, Vertical Angle = 10
- # 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
  - # 2 - Vertical Plane Through Horizontal Angles (90 - 270)
  - # 3 - Vertical Plane Through Horizontal Angles (0 - 180)
  - # 4 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)