



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L-3-XX-850-2-X-CA HO5.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L072111021  
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)  
 [ISSUE DATE] 9/15/2021  
 [MANUFAC] LUX DYNAMICS  
 [LUMCAT] L-3-SA-850-2-U10 HO5  
 [LUMINAIRE] LED LUMINAIRE  
 [BALLASTCAT] OSRAM OPTOTRONIC OT185/120-277/2A3 DIM L HB (3 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	35249
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	151
Total Luminaire Watts	232.89
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)	1.21 ft
Luminous Height	0.06 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	38798	46337	50869
55	31867	45886	58220
65	24102	49272	58391
75	14463	43970	44219
85	5518	29104	27830

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**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>	11334	11334	11334	11334	11334	11334	11334	11334	11334	11334
<b>5</b>	11241	11254	11279	11295	11299	11280	11273	11264	11281	11302
<b>10</b>	11076	11105	11119	11093	11096	11163	11236	11312	11345	11356
<b>15</b>	10786	10819	10766	10781	10908	10994	11023	11081	11074	11069
<b>20</b>	10363	10334	10315	10402	10434	10502	10518	10637	10722	10854
<b>25</b>	9839	9788	9807	9824	9848	9908	10060	10223	10202	10121
<b>30</b>	9086	9083	9041	9072	9188	9365	9541	9375	9300	9407
<b>35</b>	8198	8245	8187	8335	8480	8655	8494	8513	8659	8804
<b>40</b>	7168	7242	7323	7497	7654	7587	7612	7804	8024	8136
<b>45</b>	6112	6198	6331	6604	6613	6614	6829	7076	7249	7483
<b>50</b>	5099	5185	5308	5558	5552	5684	6035	6243	6463	6722
<b>55</b>	4125	4204	4323	4473	4539	4874	5190	5434	5771	6150
<b>60</b>	3214	3267	3359	3445	3670	3994	4357	4794	5335	5755
<b>65</b>	2348	2378	2445	2564	2821	3168	3697	4212	4690	5050
<b>70</b>	1548	1574	1636	1804	2090	2533	3041	3517	3926	4250
<b>75</b>	903	919	1001	1181	1473	1827	2241	2580	2875	2983
<b>80</b>	435	451	532	683	876	1094	1310	1563	1773	1926
<b>85</b>	141	157	205	265	349	455	590	723	825	906
<b>90</b>	50	57	75	106	148	201	263	329	407	495
<b>95</b>	56	63	74	102	137	177	222	275	332	389
<b>100</b>	68	77	96	101	124	165	206	241	278	313
<b>105</b>	86	99	119	156	163	163	187	212	236	256
<b>110</b>	106	120	155	191	229	265	232	224	228	234
<b>115</b>	128	141	186	209	275	307	360	318	286	267
<b>120</b>	154	166	189	242	280	352	377	392	425	367
<b>125</b>	175	183	200	255	297	331	404	422	407	434
<b>130</b>	196	197	224	229	306	340	378	435	443	448
<b>135</b>	212	211	214	229	285	337	365	370	435	454
<b>140</b>	220	215	221	253	253	323	357	382	375	399
<b>145</b>	226	219	229	230	262	270	325	367	383	395
<b>150</b>	233	225	232	226	246	268	276	316	354	380
<b>155</b>	240	236	233	238	226	254	279	274	289	319
<b>160</b>	240	236	231	233	237	231	245	261	281	272
<b>165</b>	232	230	224	224	224	229	232	231	236	250
<b>170</b>	229	229	227	224	220	221	222	223	232	232
<b>175</b>	240	240	239	237	237	234	233	232	228	225
<b>180</b>	249	249	249	249	249	249	249	249	249	249

**Vert. 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>	<u>95</u>
<b>0</b>	11334	11334	11334	11334	11334	11334	11334	11334	11334	11334
<b>5</b>	11336	11356	11393	11438	11470	11498	11511	11522	11533	11528
<b>10</b>	11378	11411	11414	11425	11436	11438	11432	11439	11451	11447
<b>15</b>	11145	11151	11189	11271	11335	11357	11374	11393	11404	11398
<b>20</b>	10904	10819	10771	10784	10750	10707	10668	10656	10668	10672
<b>25</b>	10054	10075	10191	10247	10319	10372	10391	10397	10410	10409
<b>30</b>	9522	9603	9711	9828	9972	10030	10020	9997	10007	10008
<b>35</b>	8969	9148	9215	9314	9322	9340	9318	9307	9304	9299
<b>40</b>	8340	8501	8549	8588	8624	8631	8666	8689	8685	8673
<b>45</b>	7614	7752	7873	7949	8016	8073	8102	8140	8156	8146
<b>50</b>	6958	7078	7288	7612	7934	8174	8320	8373	8386	8364
<b>55</b>	6488	6876	7182	7322	7475	7573	7677	7728	7725	7703
<b>60</b>	6011	6269	6534	6762	6944	6988	7026	7020	7024	7021

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	5399	5688	5778	5760	5776	5830	5891	5893	5898	5898
<b>70</b>	4374	4439	4490	4488	4479	4464	4430	4376	4338	4362
<b>75</b>	3042	3093	3153	3218	3187	3106	3021	2954	2930	2954
<b>80</b>	1990	1981	1950	1858	1753	1660	1598	1563	1548	1563
<b>85</b>	961	976	945	897	856	837	830	825	821	823
<b>90</b>	569	593	591	589	589	584	577	570	567	570
<b>95</b>	432	451	458	458	450	437	426	420	417	420
<b>100</b>	336	353	363	362	356	352	349	347	346	347
<b>105</b>	271	281	288	293	295	295	294	293	292	292
<b>110</b>	236	238	242	247	250	252	254	255	256	256
<b>115</b>	256	243	238	234	232	233	235	237	238	237
<b>120</b>	327	307	287	270	263	258	254	251	252	252
<b>125</b>	457	439	380	347	344	331	323	321	321	322
<b>130</b>	420	428	461	475	467	458	449	441	440	441
<b>135</b>	456	459	449	427	418	423	437	448	453	447
<b>140</b>	448	468	469	466	464	464	464	463	466	466
<b>145</b>	391	398	428	452	472	480	484	486	489	489
<b>150</b>	392	408	413	412	411	412	416	419	421	419
<b>155</b>	348	372	389	397	404	412	418	422	421	418
<b>160</b>	281	295	309	326	341	354	362	366	369	366
<b>165</b>	260	270	283	285	287	290	295	296	296	296
<b>170</b>	235	235	235	234	235	234	233	233	233	233
<b>175</b>	225	226	227	228	227	229	232	231	232	235
<b>180</b>	249	249	249	249	249	249	249	249	249	249

**Vert. Horizontal Angles**

	<b>100</b>	<b>105</b>	<b>110</b>	<b>115</b>	<b>120</b>	<b>125</b>	<b>130</b>	<b>135</b>	<b>140</b>	<b>145</b>
<b>0</b>	11334	11334	11334	11334	11334	11334	11334	11334	11334	11334
<b>5</b>	11509	11478	11452	11427	11396	11368	11337	11305	11278	11260
<b>10</b>	11435	11421	11414	11414	11412	11420	11396	11369	11334	11306
<b>15</b>	11376	11341	11312	11272	11206	11166	11150	11092	11075	11072
<b>20</b>	10676	10690	10719	10768	10781	10839	10907	10875	10750	10640
<b>25</b>	10392	10350	10299	10254	10184	10102	10075	10144	10239	10218
<b>30</b>	10024	10001	9945	9839	9717	9628	9527	9400	9323	9412
<b>35</b>	9312	9326	9328	9294	9226	9130	8994	8835	8684	8498
<b>40</b>	8667	8645	8623	8594	8553	8492	8329	8156	8009	7800
<b>45</b>	8103	8069	8019	7945	7861	7782	7642	7470	7254	7063
<b>50</b>	8302	8170	7945	7624	7302	7078	6962	6734	6483	6243
<b>55</b>	7673	7586	7466	7345	7185	6899	6543	6167	5761	5424
<b>60</b>	7008	6973	6925	6789	6514	6260	6003	5756	5345	4815
<b>65</b>	5881	5825	5762	5745	5743	5651	5385	5062	4706	4246
<b>70</b>	4417	4450	4467	4473	4461	4407	4336	4207	3872	3469
<b>75</b>	3001	3084	3161	3198	3149	3080	3002	2934	2832	2542
<b>80</b>	1597	1647	1731	1837	1924	1951	1958	1887	1746	1535
<b>85</b>	826	831	846	882	926	953	930	865	778	674
<b>90</b>	574	580	584	584	584	586	558	490	409	331
<b>95</b>	426	437	448	455	453	447	427	388	329	273
<b>100</b>	347	350	354	359	359	349	332	307	276	240
<b>105</b>	294	295	295	291	286	278	270	258	239	216
<b>110</b>	254	252	250	248	243	240	239	237	233	230
<b>115</b>	236	234	234	236	240	247	260	272	293	339
<b>120</b>	255	259	265	272	290	315	332	389	447	407
<b>125</b>	325	332	346	350	390	454	476	447	398	438
<b>130</b>	451	462	473	482	465	424	415	455	457	460
<b>135</b>	436	422	415	423	446	464	465	469	447	370

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**CANDELA TABULATION - (Cont.)**

<b>140</b>	468	469	468	470	475	477	457	395	370	366
<b>145</b>	488	487	479	454	424	393	386	382	366	352
<b>150</b>	415	410	408	410	406	395	382	367	345	297
<b>155</b>	414	408	402	393	381	366	338	303	279	268
<b>160</b>	360	351	337	321	305	287	279	273	263	249
<b>165</b>	290	283	277	273	265	256	246	230	229	227
<b>170</b>	230	229	227	225	226	227	229	229	230	231
<b>175</b>	237	238	239	241	243	245	245	246	249	251
<b>180</b>	249	249	249	249	249	249	249	249	249	249

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

	<b>150</b>	<b>155</b>	<b>160</b>	<b>165</b>	<b>170</b>	<b>175</b>	<b>180</b>
<b>0</b>	11334	11334	11334	11334	11334	11334	11334
<b>5</b>	11256	11259	11283	11292	11284	11271	11267
<b>10</b>	11226	11138	11088	11084	11125	11116	11109
<b>15</b>	11024	10975	10882	10805	10786	10830	10837
<b>20</b>	10529	10475	10442	10389	10354	10361	10404
<b>25</b>	10067	9925	9844	9832	9818	9827	9852
<b>30</b>	9507	9339	9176	9076	9046	9106	9105
<b>35</b>	8505	8621	8477	8357	8204	8235	8221
<b>40</b>	7611	7569	7616	7497	7309	7226	7172
<b>45</b>	6783	6583	6595	6565	6344	6183	6113
<b>50</b>	6043	5698	5527	5511	5313	5164	5087
<b>55</b>	5147	4851	4524	4427	4304	4179	4128
<b>60</b>	4357	3957	3645	3410	3344	3236	3205
<b>65</b>	3737	3167	2794	2542	2402	2345	2321
<b>70</b>	2996	2514	2074	1780	1606	1544	1516
<b>75</b>	2210	1806	1456	1162	975	891	872
<b>80</b>	1278	1054	848	674	544	429	412
<b>85</b>	547	427	325	245	185	145	130
<b>90</b>	260	199	146	104	74	55	49
<b>95</b>	223	176	137	101	74	63	55
<b>100</b>	205	165	125	104	98	77	68
<b>105</b>	192	168	170	165	143	94	85
<b>110</b>	238	289	236	220	160	112	106
<b>115</b>	386	312	309	217	180	136	129
<b>120</b>	382	386	300	229	177	157	154
<b>125</b>	434	355	285	235	178	174	175
<b>130</b>	371	326	288	213	189	191	194
<b>135</b>	357	329	275	201	194	206	209
<b>140</b>	345	305	229	212	205	209	216
<b>145</b>	310	252	239	208	215	218	221
<b>150</b>	263	257	231	219	223	231	230
<b>155</b>	260	239	226	229	227	237	238
<b>160</b>	227	227	229	229	235	242	241
<b>165</b>	227	227	228	231	240	240	239
<b>170</b>	231	233	238	243	244	245	242
<b>175</b>	251	251	252	253	252	251	250
<b>180</b>	249	249	249	249	249	249	249

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	4202.03	N.A.	11.90
0-30	8863.96	N.A.	25.10
0-40	14390.95	N.A.	40.80
0-60	25502.26	N.A.	72.30
0-80	32488.88	N.A.	92.20
0-90	33338.81	N.A.	94.60
10-90	32256.99	N.A.	91.50
20-40	10188.92	N.A.	28.90
20-50	15875.69	N.A.	45.00
40-70	15531.78	N.A.	44.10
60-80	6986.62	N.A.	19.80
70-80	2566.15	N.A.	7.30
80-90	849.94	N.A.	2.40
90-110	592.58	N.A.	1.70
90-120	844.96	N.A.	2.40
90-130	1149.27	N.A.	3.30
90-150	1668.03	N.A.	4.70
90-180	1910.67	N.A.	5.40
110-180	1318.09	N.A.	3.70
0-180	35249.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1081.82
10-20	3120.21
20-30	4661.93
30-40	5526.99
40-50	5686.77
50-60	5424.53
60-70	4420.47
70-80	2566.15
80-90	849.94
90-100	343.97
100-110	248.61
110-120	252.38
120-130	304.31
130-140	291.79
140-150	226.98
150-160	146.83
160-170	73.17
170-180	22.63

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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	95
1	107	102	98	94	104	99	95	92	94	91	88	89	87	84	85	83	81	78
2	97	89	82	76	94	86	80	74	82	76	72	78	73	69	74	70	67	65
3	88	78	69	63	85	76	68	62	72	65	60	68	63	58	65	60	56	54
4	81	69	60	53	78	67	59	52	64	56	51	61	55	50	58	53	48	46
5	74	61	52	45	72	60	51	45	57	49	44	54	48	43	52	46	42	40
6	68	55	46	39	66	54	45	39	51	44	38	49	43	37	47	41	37	35
7	63	50	41	35	61	49	40	34	47	39	34	45	38	33	43	37	33	30
8	59	45	37	31	57	44	36	31	43	35	30	41	34	30	39	34	29	27
9	55	42	33	28	53	41	33	28	39	32	27	38	31	27	36	31	26	24
10	52	38	30	25	50	38	30	25	36	29	25	35	29	24	34	28	24	22

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**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

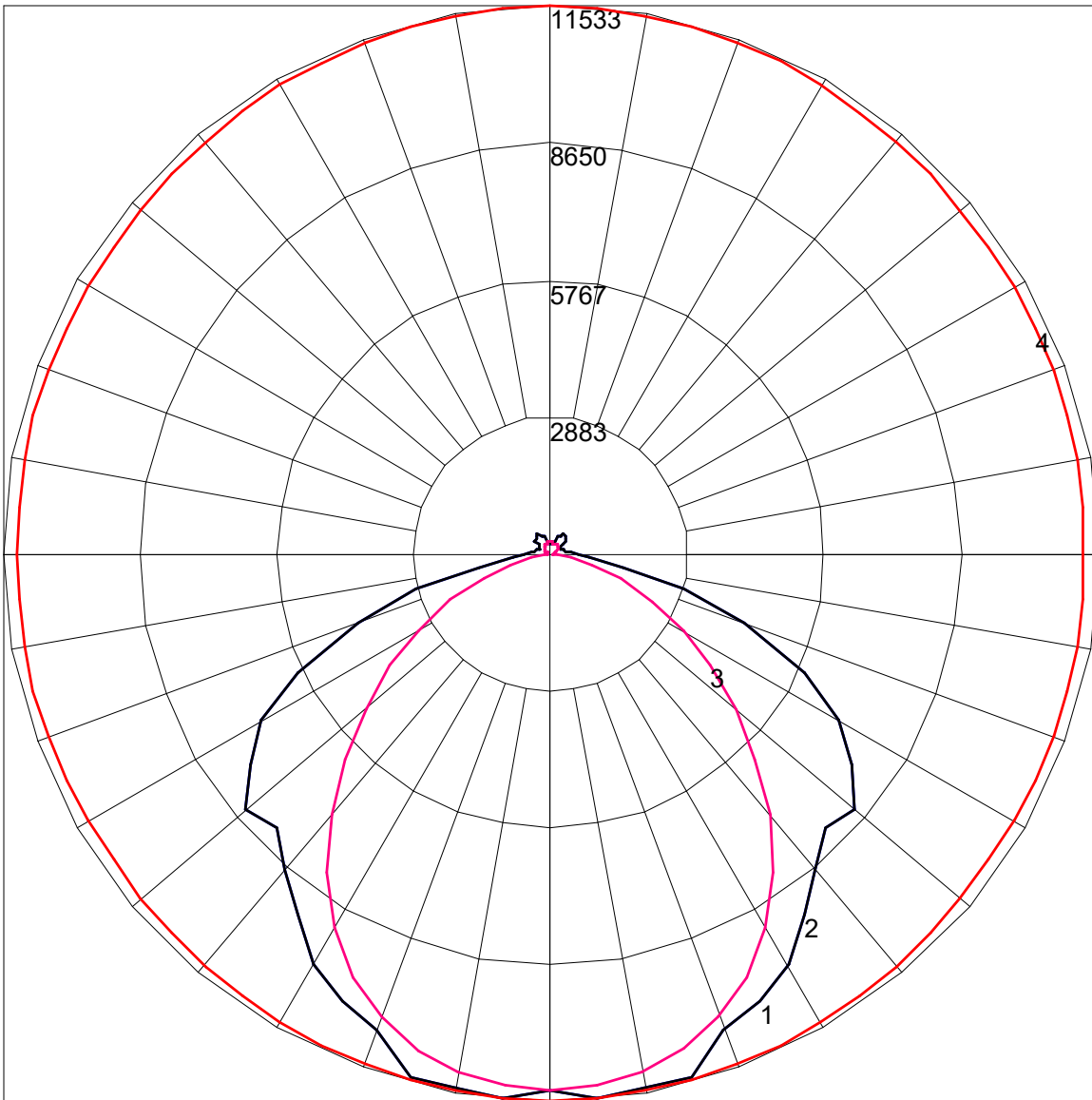
UGR Viewed Crosswise

UGR Viewed Endwise

X=2H	Y=2H	22.8	24.3	23.2	24.7	25.2	26.9	28.4	27.3	28.8	29.3
	3H	23.8	25.2	24.3	25.7	26.1	28.9	30.3	29.3	30.7	31.2
	4H	24.1	25.4	24.6	25.9	26.4	29.5	30.8	30.0	31.3	31.8
	6H	24.2	25.5	24.7	25.9	26.4	29.9	31.1	30.4	31.6	32.1
	8H	24.3	25.4	24.8	25.9	26.4	30.0	31.2	30.5	31.7	32.2
	12H	24.2	25.4	24.7	25.8	26.4	30.1	31.2	30.6	31.7	32.2
4H	2H	24.5	25.8	24.9	26.2	26.7	27.4	28.7	27.9	29.1	29.6
	3H	25.9	27.0	26.4	27.5	28.1	29.6	30.8	30.1	31.2	31.8
	4H	26.3	27.3	26.8	27.9	28.4	30.5	31.5	31.0	32.0	32.5
	6H	26.5	27.4	27.1	28.0	28.5	31.0	31.8	31.5	32.4	32.9
	8H	26.6	27.4	27.1	27.9	28.5	31.1	31.9	31.6	32.5	33.1
	12H	26.6	27.3	27.1	27.9	28.5	31.2	32.0	31.8	32.6	33.1
8H	4H	27.3	28.1	27.8	28.7	29.2	30.7	31.5	31.2	32.0	32.6
	6H	27.7	28.4	28.3	29.0	29.6	31.3	32.0	31.9	32.6	33.2
	8H	27.8	28.4	28.4	29.0	29.6	31.6	32.2	32.2	32.8	33.4
	12H	27.8	28.4	28.4	29.0	29.6	31.8	32.3	32.4	32.9	33.6
12H	4H	27.4	28.2	28.0	28.7	29.3	30.7	31.4	31.2	32.0	32.6
	6H	27.9	28.6	28.5	29.1	29.8	31.4	32.0	32.0	32.6	33.2
	8H	28.1	28.7	28.7	29.2	29.9	31.7	32.2	32.3	32.8	33.5

Maximum UGR = 33.6

POLAR GRAPH



- Maximum Candela = 11533 Located At Horizontal Angle = 90, Vertical Angle = 5
- # 1 - Vertical Plane Through Horizontal Angles (90 - 270) (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 (5) (Through Max. Cd.)