



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L-5-XX-850-2-X-CA HO5.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L072111023  
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)  
 [ISSUE DATE] 9/7/2021  
 [MANUFAC] LUX DYNAMICS  
 [LUMCAT] L-5-DA-850-2-U10 HO5  
 [LUMINAIRE] LED LUMINAIRE  
 [BALLASTCAT] OSRAM OPTOTRONIC OT185/120-277/2A3 DIM L HB (5 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	58857
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
Total Luminaire Watts	387.85
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.32
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	66303	79695	87187
55	54897	79513	99203
65	41819	84787	98071
75	25659	73067	69905
85	10331	32316	15898

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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>	19152	19152	19152	19152	19152	19152	19152	19152	19152	19152
<b>5</b>	19141	19121	19088	19073	19036	18962	18868	18829	18841	18904
<b>10</b>	18858	18812	18752	18634	18563	18669	18846	19045	19213	19334
<b>15</b>	18382	18265	18111	18066	18304	18590	18770	18739	18697	18661
<b>20</b>	17629	17465	17335	17465	17749	17802	17763	17762	17746	17824
<b>25</b>	16698	16541	16483	16679	16751	16703	16614	16768	16950	16874
<b>30</b>	15453	15314	15306	15473	15473	15393	15615	15622	15614	15909
<b>35</b>	13973	13847	13955	14195	14031	14164	14164	14307	14743	15090
<b>40</b>	12239	12188	12494	12575	12542	12635	12844	13302	13746	14026
<b>45</b>	10445	10488	10821	10875	10967	11167	11635	12170	12484	12870
<b>50</b>	8729	8810	9050	9152	9390	9735	10430	10827	11257	11718
<b>55</b>	7106	7161	7307	7501	7833	8395	8980	9493	10055	10657
<b>60</b>	5562	5580	5689	5943	6392	6961	7620	8389	9225	9939
<b>65</b>	4074	4091	4186	4496	4946	5604	6490	7392	8147	8690
<b>70</b>	2715	2741	2902	3213	3710	4452	5265	6068	6728	7198
<b>75</b>	1602	1635	1818	2140	2623	3213	3835	4360	4833	4957
<b>80</b>	789	828	977	1225	1520	1844	2113	2492	2796	2983
<b>85</b>	264	293	355	417	516	638	779	927	1004	1006
<b>90</b>	85	85	86	87	90	93	95	99	102	105
<b>95</b>	101	108	96	92	92	94	96	98	100	102
<b>100</b>	135	159	176	140	98	94	93	94	95	97
<b>105</b>	173	220	266	305	273	137	92	88	87	88
<b>110</b>	217	266	374	399	469	462	282	132	87	78
<b>115</b>	258	308	427	517	559	634	643	525	310	159
<b>120</b>	308	349	466	616	654	703	768	794	739	625
<b>125</b>	350	379	503	626	765	760	795	837	877	863
<b>130</b>	391	407	524	612	778	869	839	830	878	897
<b>135</b>	418	423	505	621	719	858	924	910	849	880
<b>140</b>	428	431	495	626	685	785	896	951	965	915
<b>145</b>	437	429	496	564	686	722	799	894	944	983
<b>150</b>	444	431	481	529	616	707	734	781	855	922
<b>155</b>	449	442	464	504	539	625	705	726	758	792
<b>160</b>	439	434	441	468	501	533	584	644	703	722
<b>165</b>	425	423	423	433	454	478	498	520	551	592
<b>170</b>	426	424	426	422	424	433	443	458	473	485
<b>175</b>	449	449	448	444	443	443	439	435	433	434
<b>180</b>	446	446	446	446	446	446	446	446	446	446

**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>	19152	19152	19152	19152	19152	19152	19152	19152	19152
<b>5</b>	18971	19036	19107	19177	19229	19273	19305	19332	19334
<b>10</b>	19349	19302	19263	19263	19267	19259	19253	19252	19253
<b>15</b>	18611	18548	18490	18507	18603	18689	18739	18777	18802
<b>20</b>	18023	17994	17932	17882	17876	17888	17897	17903	17923
<b>25</b>	16849	16975	17163	17424	17526	17559	17595	17617	17639
<b>30</b>	16235	16405	16597	16798	16904	17021	17066	17081	17066
<b>35</b>	15422	15668	15802	15870	15926	15944	15898	15853	15832
<b>40</b>	14335	14619	14715	14729	14767	14819	14851	14837	14837
<b>45</b>	13209	13465	13583	13626	13736	13830	13892	13945	13979
<b>50</b>	12017	12248	12599	13069	13532	13925	14129	14240	14272
<b>55</b>	11246	11846	12324	12595	12759	12941	13079	13127	13163
<b>60</b>	10382	10783	11208	11586	11794	11896	11949	11925	11907

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	9223	9687	9860	9808	9796	9862	9932	9921	9906
<b>70</b>	7423	7514	7588	7569	7486	7391	7297	7227	7197
<b>75</b>	4928	4969	5064	5147	5110	4982	4819	4697	4632
<b>80</b>	3047	2971	2825	2616	2381	2203	2080	2019	1992
<b>85</b>	963	877	782	688	603	533	497	478	469
<b>90</b>	107	109	111	112	113	114	115	115	115
<b>95</b>	105	107	109	110	111	112	113	114	114
<b>100</b>	99	101	102	104	105	107	108	109	109
<b>105</b>	89	90	91	93	94	96	97	98	98
<b>110</b>	79	79	80	81	82	83	85	85	85
<b>115</b>	107	76	73	73	74	75	75	76	76
<b>120</b>	436	266	167	122	118	101	89	80	78
<b>125</b>	806	757	650	533	442	345	296	270	259
<b>130</b>	922	920	879	844	820	803	784	770	763
<b>135</b>	903	906	920	932	935	934	929	924	923
<b>140</b>	872	889	914	917	915	915	918	921	921
<b>145</b>	998	979	936	904	900	909	919	926	923
<b>150</b>	965	997	1015	1024	1031	1028	1021	1017	1007
<b>155</b>	845	892	933	962	984	1002	1013	1021	1022
<b>160</b>	740	766	789	811	835	855	870	880	885
<b>165</b>	630	668	700	716	730	744	756	760	763
<b>170</b>	497	506	518	528	536	543	555	558	564
<b>175</b>	434	433	436	439	439	443	448	447	444
<b>180</b>	446	446	446	446	446	446	446	446	446

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	7045.76	N.A.	12.00
0-30	14887.71	N.A.	25.30
0-40	24263.22	N.A.	41.20
0-60	43291.09	N.A.	73.60
0-80	55112.66	N.A.	93.60
0-90	56074.22	N.A.	95.30
10-90	54252.81	N.A.	92.20
20-40	17217.46	N.A.	29.30
20-50	26934.56	N.A.	45.80
40-70	26607.04	N.A.	45.20
60-80	11821.57	N.A.	20.10
70-80	4242.41	N.A.	7.20
80-90	961.56	N.A.	1.60
90-110	264.93	N.A.	0.50
90-120	545.01	N.A.	0.90
90-130	1076.48	N.A.	1.80
90-150	2215.11	N.A.	3.80
90-180	2782.8	N.A.	4.70
110-180	2517.87	N.A.	4.30
0-180	58857.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1821.41
10-20	5224.35
20-30	7841.94
30-40	9375.51
40-50	9717.11
50-60	9310.77
60-70	7579.16
70-80	4242.41
80-90	961.56
90-100	114.76
100-110	150.17
110-120	280.08
120-130	531.47
130-140	624.83
140-150	513.80
150-160	355.18
160-170	168.80
170-180	43.71

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**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	107	103	98	94	104	100	96	92	95	92	89	90	87	85	86	84	82	79
2	97	89	82	76	94	87	80	75	82	77	73	78	74	70	75	71	68	66
3	89	78	70	63	86	76	68	62	72	66	61	69	63	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	51	45	57	50	44	55	48	43	53	47	42	40
6	69	55	46	40	66	54	45	39	52	44	39	50	43	38	48	42	37	35
7	64	50	41	35	62	49	41	35	47	39	34	45	38	33	43	37	33	31
8	59	46	37	31	57	45	37	31	43	36	30	41	35	30	40	34	29	27
9	55	42	33	28	54	41	33	28	39	32	27	38	32	27	37	31	27	25
10	52	38	31	25	50	38	30	25	36	30	25	35	29	24	34	28	24	22

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**UGR TABLE - CORRECTED**

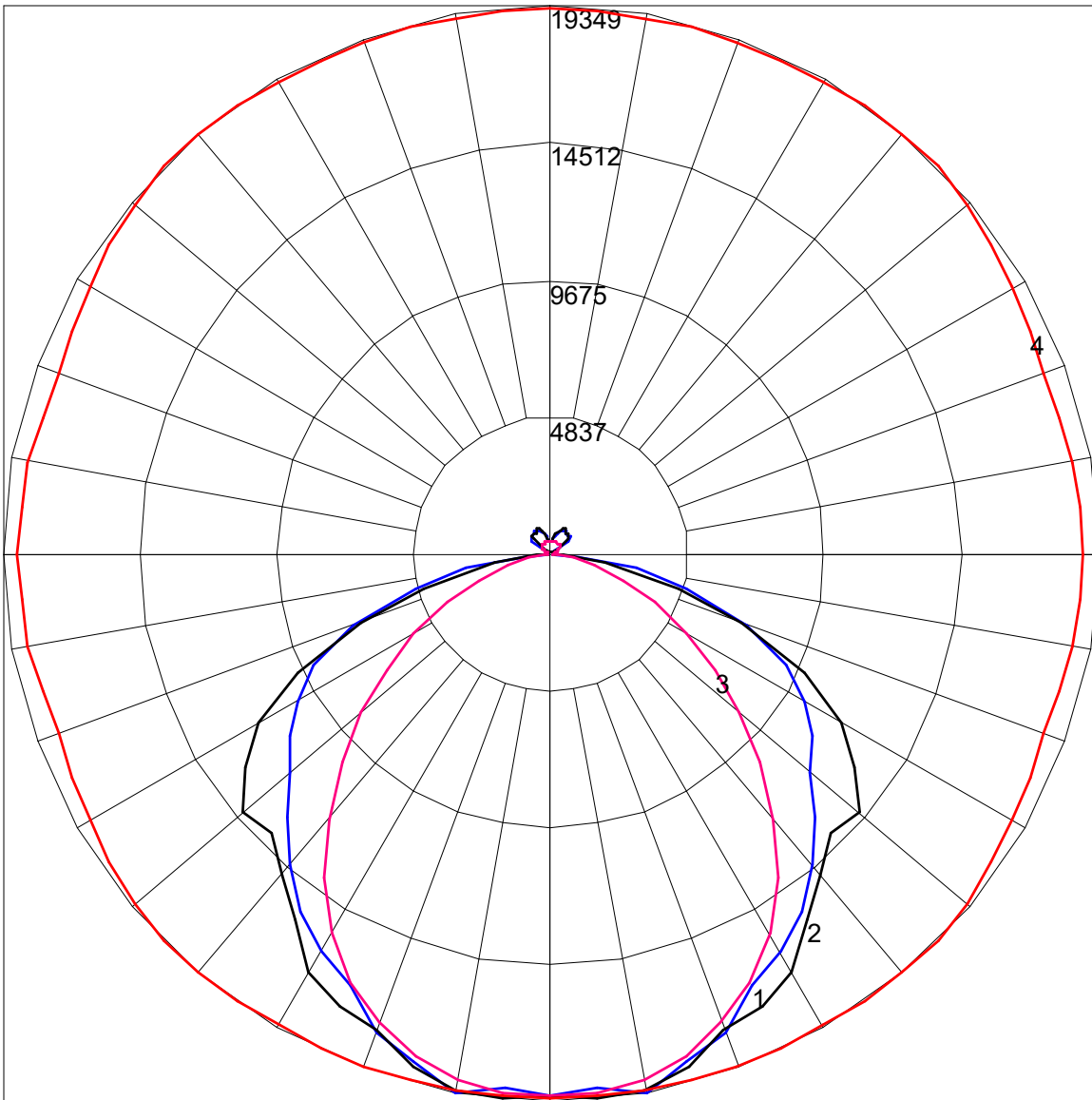
Reflectances

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	24.8	26.3	25.2	26.8	27.2	28.8	30.4	29.3	30.8	31.2
	3H	25.9	27.3	26.4	27.7	28.2	30.8	32.1	31.2	32.6	33.1
	4H	26.2	27.5	26.7	28.0	28.5	31.3	32.7	31.8	33.1	33.6
	6H	26.4	27.6	26.8	28.0	28.5	31.6	32.8	32.1	33.3	33.8
	8H	26.4	27.5	26.9	28.0	28.5	31.6	32.8	32.1	33.3	33.8
	12H	26.4	27.5	26.9	28.0	28.5	31.6	32.8	32.1	33.2	33.8
4H	2H	26.5	27.8	27.0	28.3	28.8	29.3	30.7	29.8	31.1	31.6
	3H	28.0	29.1	28.5	29.6	30.1	31.5	32.6	32.0	33.1	33.6
	4H	28.4	29.4	28.9	29.9	30.5	32.3	33.3	32.8	33.8	34.3
	6H	28.6	29.5	29.2	30.0	30.6	32.6	33.5	33.2	34.0	34.6
	8H	28.7	29.5	29.2	30.0	30.6	32.7	33.5	33.2	34.0	34.6
	12H	28.7	29.4	29.2	30.0	30.5	32.7	33.4	33.3	34.0	34.6
8H	4H	29.3	30.1	29.8	30.6	31.2	32.5	33.3	33.0	33.8	34.4
	6H	29.7	30.4	30.3	30.9	31.5	33.0	33.7	33.6	34.2	34.8
	8H	29.8	30.4	30.3	31.0	31.6	33.1	33.7	33.7	34.3	34.9
	12H	29.8	30.3	30.4	30.9	31.6	33.1	33.7	33.7	34.2	34.9
12H	4H	29.4	30.1	29.9	30.7	31.3	32.5	33.2	33.1	33.8	34.4
	6H	29.9	30.5	30.4	31.0	31.7	33.0	33.6	33.6	34.2	34.8
	8H	30.0	30.5	30.6	31.1	31.8	33.2	33.7	33.7	34.3	34.9

Maximum UGR = 34.9

POLAR GRAPH



Maximum Candela = 19349 Located At Horizontal Angle = 50, Vertical Angle = 10  
# 1 - Vertical Plane Through Horizontal Angles (50 - 230) (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.)