



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L-5-XX-850-4-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-850-4-U10 HO5  
 [LUMINAIRE] LED LUMINAIRE  
 [BALLASTCAT] OSRAM OPTOTRONIC OTI85/120-277/2A3 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	117714
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
Total Luminaire Watts	775.7
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)	3.83 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	67497	80744	87414
55	56238	80898	99462
65	43284	86837	98327
75	27139	75828	70088
85	11923	35072	15940

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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>	38304	38304	38304	38304	38304	38304	38304	38304	38304	38304
<b>5</b>	38282	38242	38176	38146	38072	37924	37736	37658	37682	37808
<b>10</b>	37716	37624	37504	37268	37126	37338	37692	38090	38426	38668
<b>15</b>	36764	36530	36222	36132	36608	37180	37540	37478	37394	37322
<b>20</b>	35258	34930	34670	34930	35498	35604	35526	35524	35492	35648
<b>25</b>	33396	33082	32966	33358	33502	33406	33228	33536	33900	33748
<b>30</b>	30906	30628	30612	30946	30946	30786	31230	31244	31228	31818
<b>35</b>	27946	27694	27910	28390	28062	28328	28328	28614	29486	30180
<b>40</b>	24478	24376	24988	25150	25084	25270	25688	26604	27492	28052
<b>45</b>	20890	20976	21642	21750	21934	22334	23270	24340	24968	25740
<b>50</b>	17458	17620	18100	18304	18780	19470	20860	21654	22514	23436
<b>55</b>	14212	14322	14614	15002	15666	16790	17960	18986	20110	21314
<b>60</b>	11124	11160	11378	11886	12784	13922	15240	16778	18450	19878
<b>65</b>	8148	8182	8372	8992	9892	11208	12980	14784	16294	17380
<b>70</b>	5430	5482	5804	6426	7420	8904	10530	12136	13456	14396
<b>75</b>	3204	3270	3636	4280	5246	6426	7670	8720	9666	9914
<b>80</b>	1578	1656	1954	2450	3040	3688	4226	4984	5592	5966
<b>85</b>	528	586	710	834	1032	1276	1558	1854	2008	2012
<b>90</b>	170	170	172	174	180	186	190	198	204	210
<b>95</b>	202	216	192	184	184	188	192	196	200	204
<b>100</b>	270	318	352	280	196	188	186	188	190	194
<b>105</b>	346	440	532	610	546	274	184	176	174	176
<b>110</b>	434	532	748	798	938	924	564	264	174	156
<b>115</b>	516	616	854	1034	1118	1268	1286	1050	620	318
<b>120</b>	616	698	932	1232	1308	1406	1536	1588	1478	1250
<b>125</b>	700	758	1006	1252	1530	1520	1590	1674	1754	1726
<b>130</b>	782	814	1048	1224	1556	1738	1678	1660	1756	1794
<b>135</b>	836	846	1010	1242	1438	1716	1848	1820	1698	1760
<b>140</b>	856	862	990	1252	1370	1570	1792	1902	1930	1830
<b>145</b>	874	858	992	1128	1372	1444	1598	1788	1888	1966
<b>150</b>	888	862	962	1058	1232	1414	1468	1562	1710	1844
<b>155</b>	898	884	928	1008	1078	1250	1410	1452	1516	1584
<b>160</b>	878	868	882	936	1002	1066	1168	1288	1406	1444
<b>165</b>	850	846	846	866	908	956	996	1040	1102	1184
<b>170</b>	852	848	852	844	848	866	886	916	946	970
<b>175</b>	898	898	896	888	886	886	878	870	866	868
<b>180</b>	892	892	892	892	892	892	892	892	892	892

**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>
<b>0</b>	38304	38304	38304	38304	38304	38304	38304	38304	38304
<b>5</b>	37942	38072	38214	38354	38458	38546	38610	38664	38668
<b>10</b>	38698	38604	38526	38526	38534	38518	38506	38504	38506
<b>15</b>	37222	37096	36980	37014	37206	37378	37478	37554	37604
<b>20</b>	36046	35988	35864	35764	35752	35776	35794	35806	35846
<b>25</b>	33698	33950	34326	34848	35052	35118	35190	35234	35278
<b>30</b>	32470	32810	33194	33596	33808	34042	34132	34162	34132
<b>35</b>	30844	31336	31604	31740	31852	31888	31796	31706	31664
<b>40</b>	28670	29238	29430	29458	29534	29638	29702	29674	29674
<b>45</b>	26418	26930	27166	27252	27472	27660	27784	27890	27958
<b>50</b>	24034	24496	25198	26138	27064	27850	28258	28480	28544
<b>55</b>	22492	23692	24648	25190	25518	25882	26158	26254	26326
<b>60</b>	20764	21566	22416	23172	23588	23792	23898	23850	23814

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	18446	19374	19720	19616	19592	19724	19864	19842	19812
<b>70</b>	14846	15028	15176	15138	14972	14782	14594	14454	14394
<b>75</b>	9856	9938	10128	10294	10220	9964	9638	9394	9264
<b>80</b>	6094	5942	5650	5232	4762	4406	4160	4038	3984
<b>85</b>	1926	1754	1564	1376	1206	1066	994	956	938
<b>90</b>	214	218	222	224	226	228	230	230	230
<b>95</b>	210	214	218	220	222	224	226	228	228
<b>100</b>	198	202	204	208	210	214	216	218	218
<b>105</b>	178	180	182	186	188	192	194	196	196
<b>110</b>	158	158	160	162	164	166	170	170	170
<b>115</b>	214	152	146	146	148	150	150	152	152
<b>120</b>	872	532	334	244	236	202	178	160	156
<b>125</b>	1612	1514	1300	1066	884	690	592	540	518
<b>130</b>	1844	1840	1758	1688	1640	1606	1568	1540	1526
<b>135</b>	1806	1812	1840	1864	1870	1868	1858	1848	1846
<b>140</b>	1744	1778	1828	1834	1830	1830	1836	1842	1842
<b>145</b>	1996	1958	1872	1808	1800	1818	1838	1852	1846
<b>150</b>	1930	1994	2030	2048	2062	2056	2042	2034	2014
<b>155</b>	1690	1784	1866	1924	1968	2004	2026	2042	2044
<b>160</b>	1480	1532	1578	1622	1670	1710	1740	1760	1770
<b>165</b>	1260	1336	1400	1432	1460	1488	1512	1520	1526
<b>170</b>	994	1012	1036	1056	1072	1086	1110	1116	1128
<b>175</b>	868	866	872	878	878	886	896	894	888
<b>180</b>	892	892	892	892	892	892	892	892	892

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	14091.52	N.A.	12.00
0-30	29775.41	N.A.	25.30
0-40	48526.43	N.A.	41.20
0-60	86582.18	N.A.	73.60
0-80	110225.3	N.A.	93.60
0-90	112148.5	N.A.	95.30
10-90	108505.6	N.A.	92.20
20-40	34434.91	N.A.	29.30
20-50	53869.13	N.A.	45.80
40-70	53214.07	N.A.	45.20
60-80	23643.14	N.A.	20.10
70-80	8484.81	N.A.	7.20
80-90	1923.13	N.A.	1.60
90-110	529.86	N.A.	0.50
90-120	1090.03	N.A.	0.90
90-130	2152.97	N.A.	1.80
90-150	4430.23	N.A.	3.80
90-180	5565.6	N.A.	4.70
110-180	5035.74	N.A.	4.30
0-180	117714.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	3642.82
10-20	10448.71
20-30	15683.89
30-40	18751.02
40-50	19434.22
50-60	18621.53
60-70	15158.33
70-80	8484.81
80-90	1923.13
90-100	229.53
100-110	300.34
110-120	560.17
120-130	1062.94
130-140	1249.67
140-150	1027.59
150-160	710.37
160-170	337.60
170-180	87.41

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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	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**

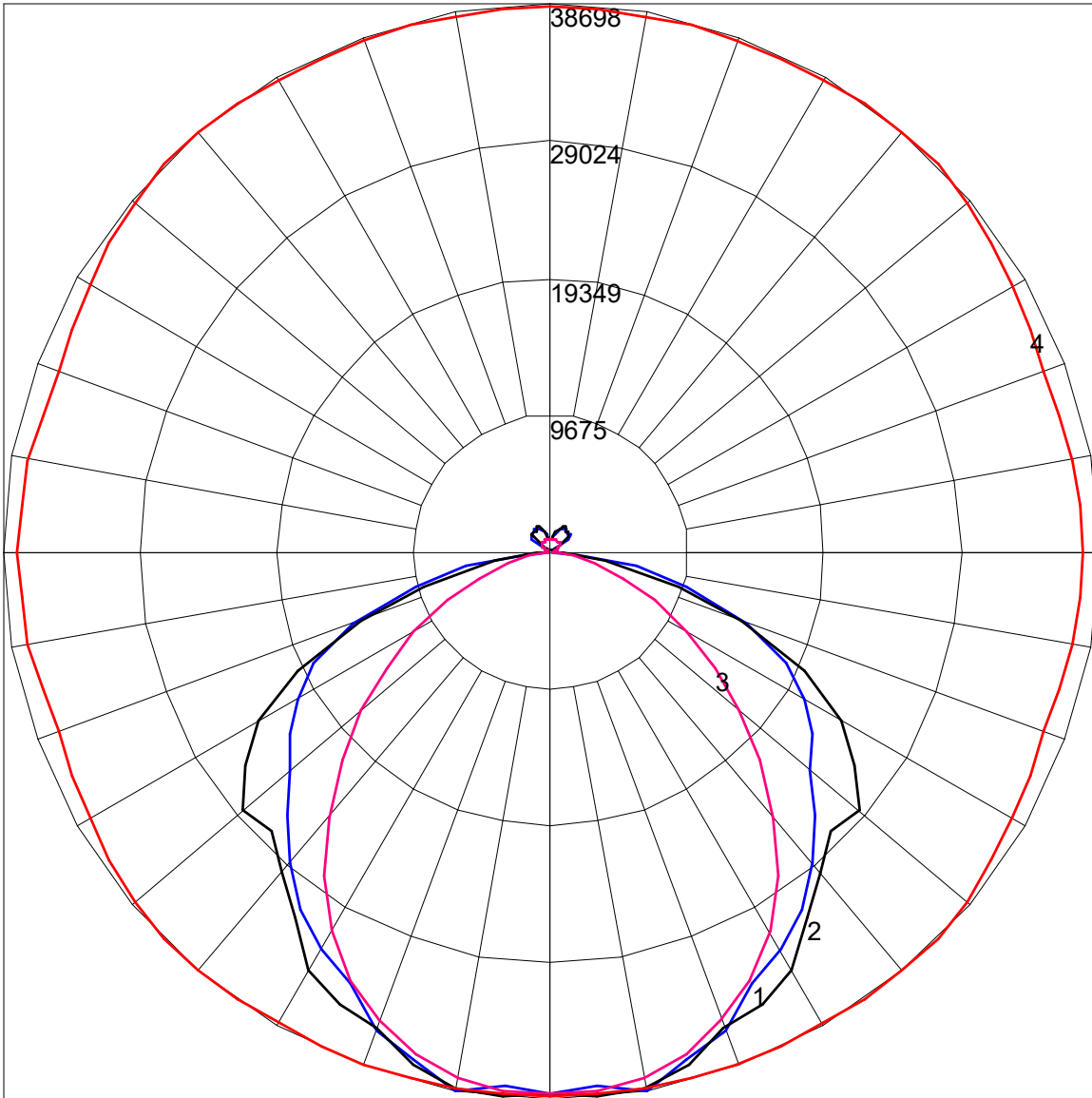
Reflectances

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	26.4	25.3	26.8	27.2	28.9	30.4	29.3	30.9	31.3
	3H	25.9	27.3	26.4	27.8	28.2	30.9	32.2	31.3	32.7	33.1
	4H	26.2	27.5	26.7	28.0	28.5	31.5	32.8	31.9	33.2	33.7
	6H	26.4	27.6	26.9	28.1	28.6	31.7	32.9	32.2	33.4	33.9
	8H	26.4	27.6	26.9	28.0	28.6	31.8	32.9	32.3	33.4	33.9
	12H	26.4	27.5	26.9	28.0	28.5	31.8	32.9	32.3	33.4	33.9
4H	2H	26.6	27.9	27.0	28.3	28.8	29.4	30.7	29.9	31.2	31.7
	3H	28.0	29.1	28.5	29.6	30.2	31.6	32.7	32.1	33.2	33.7
	4H	28.5	29.5	29.0	30.0	30.5	32.4	33.4	32.9	33.9	34.4
	6H	28.7	29.6	29.2	30.1	30.7	32.8	33.6	33.3	34.2	34.7
	8H	28.7	29.5	29.2	30.1	30.6	32.8	33.6	33.4	34.2	34.8
	12H	28.7	29.4	29.3	30.0	30.6	32.8	33.6	33.4	34.1	34.7
8H	4H	29.4	30.2	29.9	30.7	31.3	32.6	33.4	33.2	34.0	34.5
	6H	29.8	30.4	30.3	31.0	31.6	33.1	33.8	33.7	34.4	35.0
	8H	29.8	30.4	30.4	31.0	31.6	33.2	33.8	33.8	34.4	35.0
	12H	29.9	30.4	30.5	31.0	31.6	33.3	33.8	33.9	34.4	35.0
12H	4H	29.4	30.2	30.0	30.7	31.3	32.6	33.3	33.2	33.9	34.5
	6H	29.9	30.5	30.5	31.1	31.7	33.1	33.8	33.7	34.3	35.0
	8H	30.1	30.6	30.7	31.2	31.9	33.3	33.8	33.9	34.4	35.1

Maximum UGR = 35.1

POLAR GRAPH



Maximum Candela = 38698 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.)