



IES INDOOR REPORT
PHOTOMETRIC FILENAME : L-7-XX-850-4-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-850-4-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	166363
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	153
Total Luminaire Watts	1088.88
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)	3.83 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	52731	63166	68847
55	43951	63723	78923
65	33634	69343	79822
75	20805	61367	56874
85	8704	29045	12883

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L-7-XX-850-4-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>
0	54328	54328	54328	54328	54328	54328	54328	54328	54328	54328
5	54092	54092	54098	54132	54036	53818	53642	53586	53648	53736
10	53232	53136	53048	52884	52912	53178	53560	53990	54446	54712
15	51922	51630	51356	51458	51956	52796	53354	53212	53082	52926
20	49958	49500	49406	49712	50524	50640	50668	50674	50674	50722
25	47270	46998	46930	47462	47700	47694	47652	47952	48348	47952
30	43874	43574	43656	44160	44256	44166	44746	44590	44412	45054
35	39768	39426	39814	40538	40244	40648	40518	40728	41732	42584
40	34870	34780	35694	36022	36030	36192	36568	37728	38812	39542
45	29808	29958	30926	31186	31446	31828	33014	34304	35190	36220
50	24952	25190	25892	26268	26842	27686	29364	30470	31712	32906
55	20286	20456	20900	21432	22326	23874	25292	26760	28370	30012
60	15852	15914	16228	16842	18130	19632	21452	23580	26104	28022
65	11564	11622	11906	12952	13986	15776	18224	20780	22932	24564
70	7676	7736	8110	9050	10488	12536	14934	17150	19008	20360
75	4486	4550	5040	5962	7336	8978	10818	12362	13618	13914
80	2170	2262	2682	3374	4240	5106	5886	6926	7764	8292
85	704	772	944	1134	1388	1708	2082	2484	2694	2682
90	236	234	236	240	246	256	266	274	284	292
95	352	366	288	252	254	258	264	272	278	286
100	482	608	690	500	272	254	254	256	262	266
105	612	832	1056	1144	964	464	244	232	232	234
110	758	984	1376	1516	1612	1484	852	408	238	204
115	926	1126	1592	1866	1910	2006	1968	1550	910	490
120	1088	1258	1688	2040	2186	2178	2244	2316	2116	1722
125	1218	1362	1722	2100	2298	2378	2370	2354	2466	2438
130	1330	1432	1710	2030	2278	2428	2504	2496	2436	2458
135	1398	1472	1698	1936	2144	2316	2486	2568	2568	2522
140	1414	1472	1630	1784	2008	2194	2334	2480	2564	2594
145	1406	1446	1558	1734	1854	2030	2156	2342	2390	2528
150	1408	1432	1500	1650	1752	1854	1978	2004	2212	2342
155	1418	1436	1472	1526	1646	1698	1766	1880	1930	1942
160	1406	1412	1424	1450	1486	1554	1592	1614	1670	1726
165	1358	1360	1372	1382	1400	1414	1444	1474	1498	1508
170	1342	1344	1346	1356	1366	1378	1390	1400	1412	1426
175	1382	1382	1380	1376	1374	1378	1382	1390	1398	1404
180	1430	1430	1430	1430	1430	1430	1430	1430	1430	1430

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>
0	54328	54328	54328	54328	54328	54328	54328	54328	54328
5	53840	53976	54132	54256	54358	54474	54542	54596	54650
10	54698	54616	54548	54514	54488	54474	54454	54446	54460
15	52878	52830	52700	52646	52782	53000	53164	53212	53218
20	51192	51172	50900	50634	50578	50660	50742	50736	50722
25	47892	48178	48648	49160	49358	49474	49548	49650	49630
30	45988	46350	46882	47290	47482	47802	47972	48102	48116
35	43526	44194	44570	44596	44822	44754	44638	44604	44610
40	40422	41214	41514	41412	41526	41656	41690	41712	41718
45	37196	37926	38252	38348	38608	38934	39146	39310	39358
50	33750	34536	35660	36930	38232	39236	39862	40088	40162
55	31596	33458	34836	35532	36002	36500	36794	36970	37012
60	29160	30430	31636	32708	33300	33588	33634	33580	33588

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L-7-XX-850-4-X-CA HO5.IES

CANDELA TABULATION - (Cont.)

65	26092	27340	27822	27752	27752	27958	28080	28082	28098
70	20970	21228	21398	21270	21036	20746	20478	20188	20074
75	13880	13978	14196	14418	14244	13814	13292	12924	12760
80	8400	8144	7692	7046	6404	5892	5540	5334	5248
85	2528	2286	2014	1734	1496	1348	1232	1174	1158
90	300	306	312	318	322	326	328	330	330
95	292	298	304	310	314	318	322	324	324
100	270	276	280	284	288	292	296	298	298
105	236	238	240	242	246	248	250	252	254
110	204	204	206	206	208	212	214	216	216
115	290	208	182	182	184	184	188	190	190
120	1160	760	504	366	306	258	228	216	212
125	2256	2016	1710	1376	1116	930	808	734	712
130	2514	2508	2432	2312	2208	2098	2020	1968	1962
135	2456	2442	2474	2490	2482	2490	2488	2486	2496
140	2590	2560	2522	2462	2428	2434	2456	2470	2478
145	2582	2624	2632	2612	2594	2588	2600	2608	2606
150	2370	2458	2554	2588	2612	2664	2686	2704	2716
155	2116	2232	2306	2346	2378	2438	2506	2534	2546
160	1798	1832	1882	1898	1982	2058	2116	2150	2154
165	1526	1528	1574	1606	1632	1640	1656	1672	1682
170	1434	1436	1436	1438	1450	1462	1472	1470	1474
175	1414	1422	1432	1442	1454	1464	1468	1478	1476
180	1430	1430	1430	1430	1430	1430	1430	1430	1430

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L-7-XX-850-4-X-CA HO5.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	19990.22	N.A.	12.00
0-30	42245.64	N.A.	25.40
0-40	68804.04	N.A.	41.40
0-60	122607.9	N.A.	73.70
0-80	155869.3	N.A.	93.70
0-90	158456.4	N.A.	95.20
10-90	153294.5	N.A.	92.10
20-40	48813.82	N.A.	29.30
20-50	76304.25	N.A.	45.90
40-70	75209.92	N.A.	45.20
60-80	33261.39	N.A.	20.00
70-80	11855.33	N.A.	7.10
80-90	2587.15	N.A.	1.60
90-110	807.12	N.A.	0.50
90-120	1688.95	N.A.	1.00
90-130	3233.36	N.A.	1.90
90-150	6404.84	N.A.	3.80
90-180	7906.73	N.A.	4.80
110-180	7099.6	N.A.	4.30
0-180	166363.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	5161.97
10-20	14828.26
20-30	22255.42
30-40	26558.4
40-50	27490.42
50-60	26313.43
60-70	21406.07
70-80	11855.32
80-90	2587.15
90-100	331.28
100-110	475.84
110-120	881.82
120-130	1544.41
130-140	1756.19
140-150	1415.3
150-160	924.85
160-170	441.88
170-180	135.15

IES INDOOR REPORT

PHOTOMETRIC FILENAME : L-7-XX-850-4-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-850-4-X-CA HO5.IES

UGR TABLE - CORRECTED

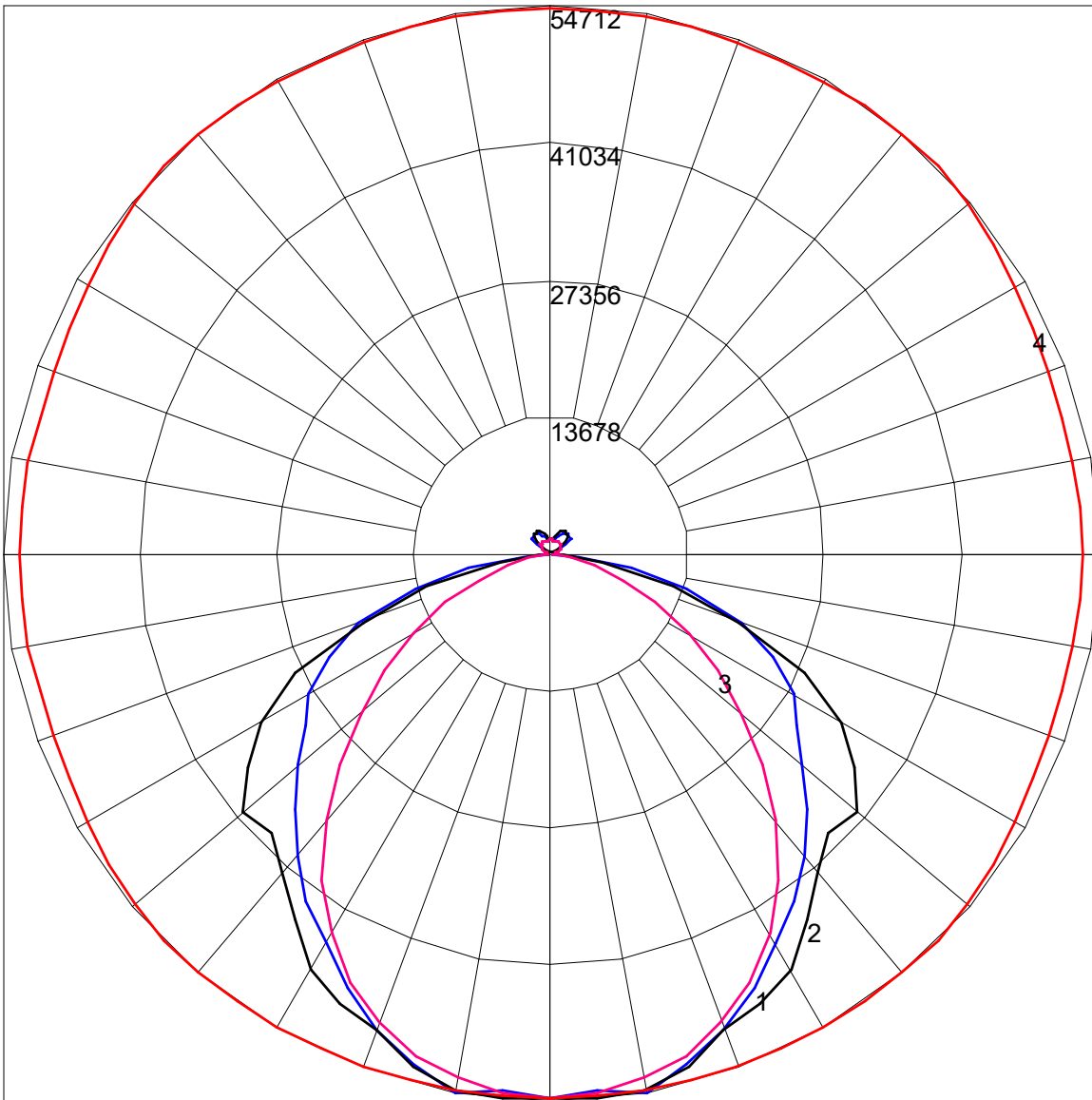
Reflectances

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	29.6	28.5	30.0	30.4
	3H	25.2	26.6	25.7	27.0	27.5	30.0	31.4	30.4	31.8	32.3
	4H	25.5	26.8	26.0	27.2	27.7	30.6	31.9	31.0	32.3	32.8
	6H	25.6	26.8	26.1	27.3	27.8	30.8	32.0	31.3	32.5	33.0
	8H	25.6	26.8	26.1	27.3	27.8	30.8	32.0	31.3	32.5	33.0
	12H	25.6	26.8	26.2	27.2	27.8	30.8	31.9	31.3	32.4	33.0
4H	2H	25.8	27.1	26.3	27.5	28.0	28.6	29.9	29.1	30.3	30.8
	3H	27.3	28.4	27.8	28.9	29.4	30.8	31.9	31.3	32.4	32.9
	4H	27.7	28.7	28.2	29.2	29.8	31.5	32.5	32.0	33.0	33.6
	6H	27.9	28.8	28.5	29.3	29.9	31.9	32.7	32.4	33.3	33.8
	8H	28.0	28.8	28.5	29.3	29.9	31.9	32.7	32.5	33.3	33.8
	12H	28.0	28.7	28.5	29.3	29.8	31.9	32.7	32.5	33.2	33.8
8H	4H	28.6	29.4	29.1	30.0	30.5	31.7	32.6	32.3	33.1	33.7
	6H	29.0	29.7	29.6	30.3	30.9	32.2	32.9	32.8	33.5	34.1
	8H	29.1	29.7	29.7	30.3	30.9	32.3	32.9	32.9	33.5	34.1
	12H	29.1	29.7	29.7	30.2	30.9	32.3	32.9	32.9	33.5	34.1
12H	4H	28.7	29.4	29.3	30.0	30.6	31.7	32.5	32.3	33.0	33.6
	6H	29.2	29.8	29.8	30.3	31.0	32.3	32.9	32.8	33.4	34.1
	8H	29.3	29.9	29.9	30.4	31.1	32.4	32.9	33.0	33.5	34.2

Maximum UGR = 34.2

POLAR GRAPH



- Maximum Candela = 54712 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.)