



IES INDOOR REPORT
PHOTOMETRIC FILENAME : L-4-XX-850-2-X-CA HO5.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L072111022
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUE DATE] 9/7/2021
 [MANUFAC] LUX DYNAMICS
 [LUMCAT] L-4-DA-850-2-U10 HO5
 [LUMINAIRE] LED LUMINAIRE
 [BALLASTCAT] SIGNIFY ADVANCE XJ180C180V144BSF2 (2 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	47237
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	153
Total Luminaire Watts	309.37
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)	0.96 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	67160	79802	87123
55	55493	79550	98678
65	42243	84270	97267
75	25719	71544	67521
85	10013	29173	13784

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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>
0	15434	15434	15434	15434	15434	15434	15434	15434	15434	15434
5	15311	15337	15380	15420	15379	15303	15239	15217	15221	15266
10	15106	15141	15121	15029	14994	15097	15260	15399	15492	15535
15	14764	14707	14600	14591	14809	15007	15110	15105	15065	15040
20	14238	14050	13996	14145	14329	14332	14350	14402	14385	14439
25	13486	13309	13313	13458	13486	13521	13544	13637	13705	13591
30	12462	12334	12353	12475	12553	12519	12765	12633	12550	12735
35	11251	11148	11223	11511	11402	11570	11447	11507	11820	12068
40	9852	9811	10090	10208	10221	10225	10339	10679	11017	11213
45	8394	8424	8779	8887	8906	9004	9337	9757	9984	10313
50	7022	7080	7343	7454	7588	7825	8351	8642	9018	9372
55	5699	5773	5938	6064	6282	6776	7155	7563	8077	8561
60	4466	4501	4591	4746	5102	5536	6048	6672	7444	8006
65	3265	3284	3352	3574	3962	4460	5165	5863	6542	6972
70	2166	2187	2284	2545	2970	3543	4185	4815	5412	5791
75	1274	1288	1419	1672	2094	2552	3040	3494	3903	3959
80	622	667	760	952	1202	1469	1647	1979	2232	2373
85	203	223	273	325	399	490	597	711	767	766
90	67	67	68	70	72	75	77	80	82	84
95	77	85	73	73	74	75	76	78	81	83
100	98	120	131	111	75	74	74	75	77	79
105	118	159	198	231	201	101	71	70	71	72
110	142	189	264	305	364	353	220	101	65	63
115	170	229	323	408	416	495	487	415	237	130
120	200	253	323	451	543	518	598	607	569	495
125	229	276	341	498	573	643	593	644	683	660
130	259	288	375	476	607	661	710	655	648	701
135	282	303	383	446	596	666	705	746	723	671
140	293	310	363	456	533	652	701	723	755	773
145	304	317	344	443	498	579	669	718	731	754
150	317	329	338	410	484	523	585	665	713	741
155	324	333	340	365	433	492	527	557	615	674
160	325	331	337	341	372	426	474	511	534	554
165	320	319	324	331	336	352	384	420	455	480
170	322	321	323	326	329	331	333	337	348	359
175	337	338	337	336	335	337	338	338	340	340
180	333	333	333	333	333	333	333	333	333	333

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>
0	15434	15434	15434	15434	15434	15434	15434	15434	15434
5	15319	15384	15429	15476	15526	15558	15579	15593	15603
10	15516	15528	15522	15511	15505	15500	15497	15493	15489
15	15056	15022	14981	14994	15073	15157	15200	15213	15210
20	14619	14538	14458	14454	14424	14399	14390	14386	14384
25	13557	13669	13824	13962	14036	14073	14111	14138	14155
30	13039	13149	13305	13437	13568	13688	13722	13729	13735
35	12353	12585	12696	12717	12770	12793	12753	12730	12715
40	11504	11742	11819	11810	11834	11864	11898	11932	11935
45	10585	10774	10883	10943	11028	11093	11145	11195	11219
50	9641	9796	10105	10497	10900	11227	11406	11482	11484
55	9032	9544	9940	10124	10264	10397	10509	10550	10567
60	8315	8667	9012	9320	9518	9579	9610	9607	9603

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CANDELA TABULATION - (Cont.)

65	7403	7819	7934	7871	7875	7943	8008	8008	7990
70	5958	6024	6088	6083	6034	5946	5860	5765	5707
75	3923	3980	4058	4140	4092	3979	3845	3748	3694
80	2415	2353	2238	2059	1876	1726	1639	1583	1552
85	733	673	596	521	450	405	376	360	353
90	87	88	89	91	92	93	93	94	94
95	85	87	88	90	91	92	93	94	94
100	81	83	84	85	87	88	89	90	90
105	72	73	75	77	79	80	82	82	83
110	64	64	66	67	68	69	70	70	71
115	85	59	58	59	60	61	62	63	63
120	357	218	145	104	93	80	68	63	62
125	623	598	515	429	366	278	240	224	217
130	722	710	673	654	638	627	615	606	604
135	667	701	726	733	728	723	716	712	718
140	746	705	683	677	689	703	714	720	723
145	776	794	794	775	754	736	723	717	711
150	751	762	775	788	799	807	811	815	818
155	713	736	752	761	767	770	773	775	773
160	582	619	655	682	703	717	727	733	732
165	502	521	534	548	559	568	572	576	577
170	381	397	413	424	437	450	457	462	464
175	338	338	339	340	340	339	339	340	341
180	333	333	333	333	333	333	333	333	333

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	5686.51	N.A.	12.00
0-30	12007.51	N.A.	25.40
0-40	19552.43	N.A.	41.40
0-60	34849.45	N.A.	73.80
0-80	44315.4	N.A.	93.80
0-90	45065.74	N.A.	95.40
10-90	43597.14	N.A.	92.30
20-40	13865.93	N.A.	29.40
20-50	21678.84	N.A.	45.90
40-70	21377.97	N.A.	45.30
60-80	9465.95	N.A.	20.00
70-80	3385.00	N.A.	7.20
80-90	750.34	N.A.	1.60
90-110	208.94	N.A.	0.40
90-120	424.69	N.A.	0.90
90-130	836.74	N.A.	1.80
90-150	1725.67	N.A.	3.70
90-180	2171.43	N.A.	4.60
110-180	1962.5	N.A.	4.20
0-180	47237.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1468.6
10-20	4217.91
20-30	6321.00
30-40	7544.93
40-50	7812.91
50-60	7484.11
60-70	6080.95
70-80	3385.00
80-90	750.34
90-100	92.23
100-110	116.71
110-120	215.75
120-130	412.06
130-140	484.80
140-150	404.12
150-160	279.81
160-170	132.27
170-180	33.69

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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	10
0	118	118	118	118	115	115	115	115	109	109	109	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	80
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	43	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

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UGR TABLE - CORRECTED

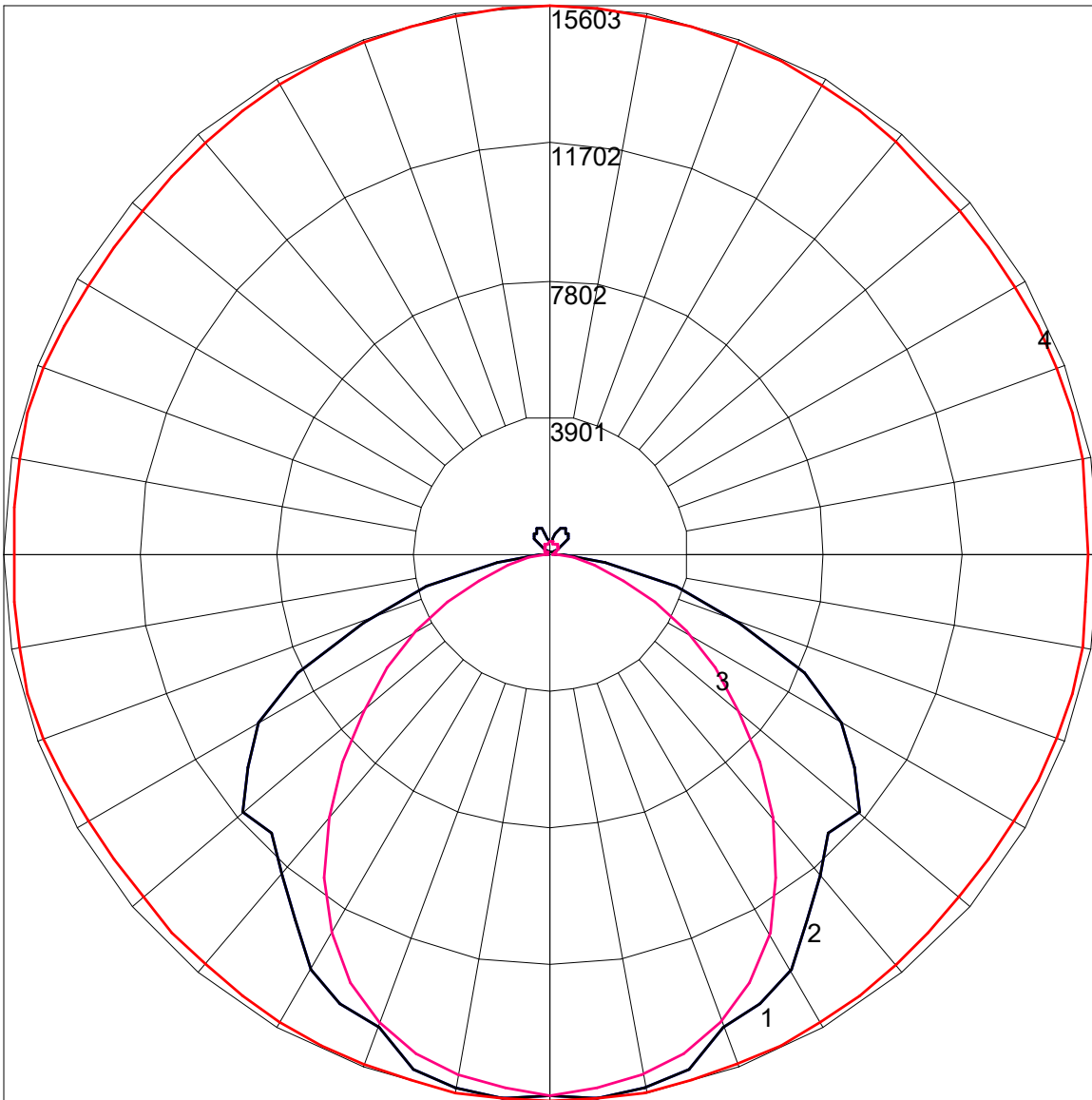
Reflectances

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	24.7	26.3	25.2	26.7	27.1	28.8	30.4	29.3	30.8	31.2
	3H	25.8	27.2	26.3	27.6	28.1	30.8	32.1	31.2	32.6	33.1
	4H	26.1	27.4	26.6	27.8	28.3	31.3	32.6	31.8	33.1	33.6
	6H	26.2	27.4	26.7	27.9	28.4	31.6	32.8	32.1	33.3	33.8
	8H	26.3	27.4	26.8	27.9	28.4	31.6	32.8	32.1	33.3	33.8
	12H	26.2	27.3	26.7	27.8	28.4	31.6	32.7	32.1	33.2	33.8
4H	2H	26.4	27.8	26.9	28.2	28.7	29.3	30.7	29.8	31.1	31.6
	3H	27.9	29.0	28.4	29.5	30.0	31.5	32.6	32.0	33.1	33.6
	4H	28.3	29.3	28.8	29.8	30.4	32.3	33.3	32.8	33.8	34.3
	6H	28.5	29.4	29.0	29.9	30.5	32.6	33.5	33.1	34.0	34.6
	8H	28.5	29.3	29.1	29.9	30.5	32.7	33.5	33.2	34.0	34.6
	12H	28.5	29.3	29.1	29.8	30.4	32.7	33.4	33.2	34.0	34.5
8H	4H	29.2	30.0	29.7	30.5	31.1	32.5	33.3	33.0	33.8	34.4
	6H	29.6	30.2	30.1	30.8	31.4	32.9	33.6	33.5	34.2	34.8
	8H	29.6	30.2	30.2	30.8	31.4	33.1	33.6	33.6	34.2	34.8
	12H	29.7	30.2	30.2	30.8	31.4	33.1	33.6	33.7	34.2	34.8
12H	4H	29.3	30.0	29.8	30.6	31.1	32.5	33.2	33.0	33.8	34.3
	6H	29.7	30.3	30.3	30.9	31.5	33.0	33.6	33.6	34.1	34.8
	8H	29.9	30.4	30.4	31.0	31.6	33.1	33.6	33.7	34.2	34.9

Maximum UGR = 34.9

POLAR GRAPH



Maximum Candela = 15603 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.)