



IES INDOOR REPORT
PHOTOMETRIC FILENAME : L-3-XX-850-4-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-850-4-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	70499
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	151
Total Luminaire Watts	465.78
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)	3.92 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	38603	45881	49831
55	31913	45629	57031
65	24392	49329	57199
75	14965	44620	43316
85	6243	30919	27262

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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	22668	22668	22668	22668	22668	22668	22668	22668	22668	22668
5	22482	22508	22558	22590	22598	22560	22546	22528	22562	22604
10	22152	22210	22238	22186	22192	22326	22472	22624	22690	22712
15	21572	21638	21532	21562	21816	21988	22046	22162	22148	22138
20	20726	20668	20630	20804	20868	21004	21036	21274	21444	21708
25	19678	19576	19614	19648	19696	19816	20120	20446	20404	20242
30	18172	18166	18082	18144	18376	18730	19082	18750	18600	18814
35	16396	16490	16374	16670	16960	17310	16988	17026	17318	17608
40	14336	14484	14646	14994	15308	15174	15224	15608	16048	16272
45	12224	12396	12662	13208	13226	13228	13658	14152	14498	14966
50	10198	10370	10616	11116	11104	11368	12070	12486	12926	13444
55	8250	8408	8646	8946	9078	9748	10380	10868	11542	12300
60	6428	6534	6718	6890	7340	7988	8714	9588	10670	11510
65	4696	4756	4890	5128	5642	6336	7394	8424	9380	10100
70	3096	3148	3272	3608	4180	5066	6082	7034	7852	8500
75	1806	1838	2002	2362	2946	3654	4482	5160	5750	5966
80	870	902	1064	1366	1752	2188	2620	3126	3546	3852
85	282	314	410	530	698	910	1180	1446	1650	1812
90	100	114	150	212	296	402	526	658	814	990
95	112	126	148	204	274	354	444	550	664	778
100	136	154	192	202	248	330	412	482	556	626
105	172	198	238	312	326	326	374	424	472	512
110	212	240	310	382	458	530	464	448	456	468
115	256	282	372	418	550	614	720	636	572	534
120	308	332	378	484	560	704	754	784	850	734
125	350	366	400	510	594	662	808	844	814	868
130	392	394	448	458	612	680	756	870	886	896
135	424	422	428	458	570	674	730	740	870	908
140	440	430	442	506	506	646	714	764	750	798
145	452	438	458	460	524	540	650	734	766	790
150	466	450	464	452	492	536	552	632	708	760
155	480	472	466	476	452	508	558	548	578	638
160	480	472	462	466	474	462	490	522	562	544
165	464	460	448	448	448	458	464	462	472	500
170	458	458	454	448	440	442	444	446	464	464
175	480	480	478	474	474	468	466	464	456	450
180	498	498	498	498	498	498	498	498	498	498

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>	<u>95</u>
0	22668	22668	22668	22668	22668	22668	22668	22668	22668	22668
5	22672	22712	22786	22876	22940	22996	23022	23044	23066	23056
10	22756	22822	22828	22850	22872	22876	22864	22878	22902	22894
15	22290	22302	22378	22542	22670	22714	22748	22786	22808	22796
20	21808	21638	21542	21568	21500	21414	21336	21312	21336	21344
25	20108	20150	20382	20494	20638	20744	20782	20794	20820	20818
30	19044	19206	19422	19656	19944	20060	20040	19994	20014	20016
35	17938	18296	18430	18628	18644	18680	18636	18614	18608	18598
40	16680	17002	17098	17176	17248	17262	17332	17378	17370	17346
45	15228	15504	15746	15898	16032	16146	16204	16280	16312	16292
50	13916	14156	14576	15224	15868	16348	16640	16746	16772	16728
55	12976	13752	14364	14644	14950	15146	15354	15456	15450	15406
60	12022	12538	13068	13524	13888	13976	14052	14040	14048	14042

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65	10798	11376	11556	11520	11552	11660	11782	11786	11796	11796
70	8748	8878	8980	8976	8958	8928	8860	8752	8676	8724
75	6084	6186	6306	6436	6374	6212	6042	5908	5860	5908
80	3980	3962	3900	3716	3506	3320	3196	3126	3096	3126
85	1922	1952	1890	1794	1712	1674	1660	1650	1642	1646
90	1138	1186	1182	1178	1178	1168	1154	1140	1134	1140
95	864	902	916	916	900	874	852	840	834	840
100	672	706	726	724	712	704	698	694	692	694
105	542	562	576	586	590	590	588	586	584	584
110	472	476	484	494	500	504	508	510	512	512
115	512	486	476	468	464	466	470	474	476	474
120	654	614	574	540	526	516	508	502	504	504
125	914	878	760	694	688	662	646	642	642	644
130	840	856	922	950	934	916	898	882	880	882
135	912	918	898	854	836	846	874	896	906	894
140	896	936	938	932	928	928	928	926	932	932
145	782	796	856	904	944	960	968	972	978	978
150	784	816	826	824	822	824	832	838	842	838
155	696	744	778	794	808	824	836	844	842	836
160	562	590	618	652	682	708	724	732	738	732
165	520	540	566	570	574	580	590	592	592	592
170	470	470	470	468	470	468	466	466	466	466
175	450	452	454	456	454	458	464	462	464	470
180	498	498	498	498	498	498	498	498	498	498

Vert. Horizontal Angles
Angles

	100	105	110	115	120	125	130	135	140	145
0	22668	22668	22668	22668	22668	22668	22668	22668	22668	22668
5	23018	22956	22904	22854	22792	22736	22674	22610	22556	22520
10	22870	22842	22828	22828	22824	22840	22792	22738	22668	22612
15	22752	22682	22624	22544	22412	22332	22300	22184	22150	22144
20	21352	21380	21438	21536	21562	21678	21814	21750	21500	21280
25	20784	20700	20598	20508	20368	20204	20150	20288	20478	20436
30	20048	20002	19890	19678	19434	19256	19054	18800	18646	18824
35	18624	18652	18656	18588	18452	18260	17988	17670	17368	16996
40	17334	17290	17246	17188	17106	16984	16658	16312	16018	15600
45	16206	16138	16038	15890	15722	15564	15284	14940	14508	14126
50	16604	16340	15890	15248	14604	14156	13924	13468	12966	12486
55	15346	15172	14932	14690	14370	13798	13086	12334	11522	10848
60	14016	13946	13850	13578	13028	12520	12006	11512	10690	9630
65	11762	11650	11524	11490	11486	11302	10770	10124	9412	8492
70	8834	8900	8934	8946	8922	8814	8672	8414	7744	6938
75	6002	6168	6322	6396	6298	6160	6004	5868	5664	5084
80	3194	3294	3462	3674	3848	3902	3916	3774	3492	3070
85	1652	1662	1692	1764	1852	1906	1860	1730	1556	1348
90	1148	1160	1168	1168	1168	1172	1116	980	818	662
95	852	874	896	910	906	894	854	776	658	546
100	694	700	708	718	718	698	664	614	552	480
105	588	590	590	582	572	556	540	516	478	432
110	508	504	500	496	486	480	478	474	466	460
115	472	468	468	472	480	494	520	544	586	678
120	510	518	530	544	580	630	664	778	894	814
125	650	664	692	700	780	908	952	894	796	876
130	902	924	946	964	930	848	830	910	914	920
135	872	844	830	846	892	928	930	938	894	740

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140	936	938	936	940	950	954	914	790	740	732
145	976	974	958	908	848	786	772	764	732	704
150	830	820	816	820	812	790	764	734	690	594
155	828	816	804	786	762	732	676	606	558	536
160	720	702	674	642	610	574	558	546	526	498
165	580	566	554	546	530	512	492	460	458	454
170	460	458	454	450	452	454	458	458	460	462
175	474	476	478	482	486	490	490	492	498	502
180	498	498	498	498	498	498	498	498	498	498

Vert. Horizontal Angles
Angles

	150	155	160	165	170	175	180
0	22668	22668	22668	22668	22668	22668	22668
5	22512	22518	22566	22584	22568	22542	22534
10	22452	22276	22176	22168	22250	22232	22218
15	22048	21950	21764	21610	21572	21660	21674
20	21058	20950	20884	20778	20708	20722	20808
25	20134	19850	19688	19664	19636	19654	19704
30	19014	18678	18352	18152	18092	18212	18210
35	17010	17242	16954	16714	16408	16470	16442
40	15222	15138	15232	14994	14618	14452	14344
45	13566	13166	13190	13130	12688	12366	12226
50	12086	11396	11054	11022	10626	10328	10174
55	10294	9702	9048	8854	8608	8358	8256
60	8714	7914	7290	6820	6688	6472	6410
65	7474	6334	5588	5084	4804	4690	4642
70	5992	5028	4148	3560	3212	3088	3032
75	4420	3612	2912	2324	1950	1782	1744
80	2556	2108	1696	1348	1088	858	824
85	1094	854	650	490	370	290	260
90	520	398	292	208	148	110	98
95	446	352	274	202	148	126	110
100	410	330	250	208	196	154	136
105	384	336	340	330	286	188	170
110	476	578	472	440	320	224	212
115	772	624	618	434	360	272	258
120	764	772	600	458	354	314	308
125	868	710	570	470	356	348	350
130	742	652	576	426	378	382	388
135	714	658	550	402	388	412	418
140	690	610	458	424	410	418	432
145	620	504	478	416	430	436	442
150	526	514	462	438	446	462	460
155	520	478	452	458	454	474	476
160	454	454	458	458	470	484	482
165	454	454	456	462	480	480	478
170	462	466	476	486	488	490	484
175	502	502	504	506	504	502	500
180	498	498	498	498	498	498	498

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	8404.07	N.A.	11.90
0-30	17727.93	N.A.	25.10
0-40	28781.9	N.A.	40.80
0-60	51004.52	N.A.	72.30
0-80	64977.76	N.A.	92.20
0-90	66677.63	N.A.	94.60
10-90	64513.99	N.A.	91.50
20-40	20377.84	N.A.	28.90
20-50	31751.39	N.A.	45.00
40-70	31063.55	N.A.	44.10
60-80	13973.24	N.A.	19.80
70-80	5132.3	N.A.	7.30
80-90	1699.88	N.A.	2.40
90-110	1185.16	N.A.	1.70
90-120	1689.91	N.A.	2.40
90-130	2298.54	N.A.	3.30
90-150	3336.07	N.A.	4.70
90-180	3821.34	N.A.	5.40
110-180	2636.18	N.A.	3.70
0-180	70498.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2163.64
10-20	6240.42
20-30	9323.86
30-40	11053.98
40-50	11373.55
50-60	10849.07
60-70	8840.93
70-80	5132.3
80-90	1699.88
90-100	687.94
100-110	497.21
110-120	504.75
120-130	608.62
130-140	583.57
140-150	453.96
150-160	293.66
160-170	146.35
170-180	45.26

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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	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

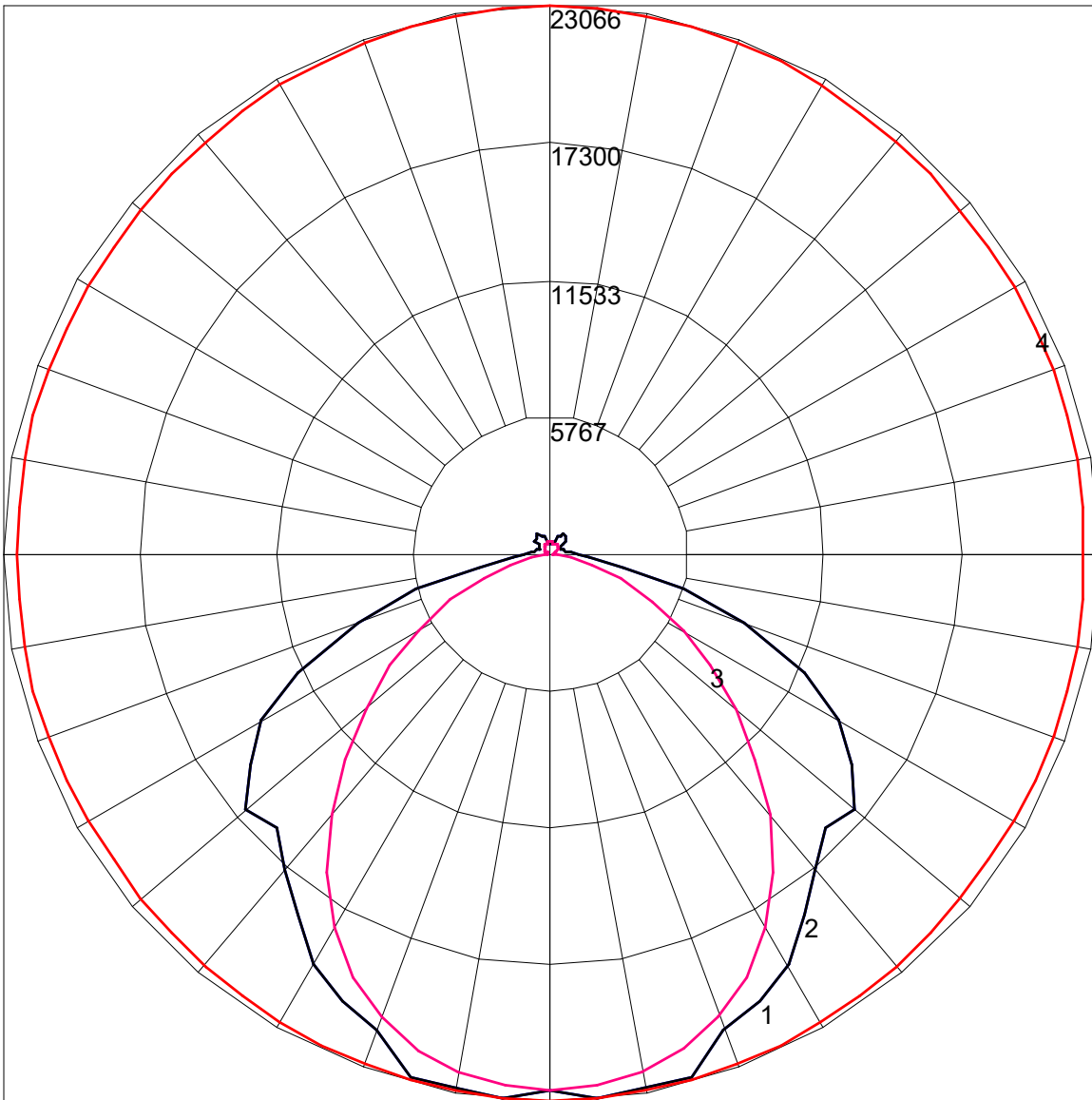
Reflectances

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	22.7	24.3	23.2	24.7	25.1	26.9	28.4	27.3	28.8	29.3
	3H	23.8	25.2	24.2	25.6	26.1	28.9	30.3	29.3	30.7	31.2
	4H	24.1	25.4	24.5	25.8	26.3	29.5	30.9	30.0	31.3	31.8
	6H	24.2	25.4	24.7	25.9	26.4	29.9	31.2	30.4	31.6	32.1
	8H	24.2	25.4	24.7	25.9	26.4	30.1	31.2	30.6	31.7	32.2
	12H	24.2	25.3	24.7	25.8	26.3	30.2	31.3	30.7	31.8	32.3
4H	2H	24.4	25.8	24.9	26.2	26.7	27.4	28.7	27.8	29.1	29.6
	3H	25.9	27.0	26.4	27.5	28.0	29.7	30.8	30.2	31.3	31.8
	4H	26.3	27.3	26.8	27.8	28.4	30.5	31.5	31.0	32.0	32.6
	6H	26.5	27.4	27.0	27.9	28.5	31.0	31.9	31.5	32.4	33.0
	8H	26.5	27.4	27.1	27.9	28.5	31.2	32.0	31.7	32.5	33.1
	12H	26.5	27.3	27.1	27.8	28.4	31.3	32.1	31.9	32.6	33.2
8H	4H	27.3	28.1	27.8	28.7	29.2	30.7	31.6	31.3	32.1	32.7
	6H	27.7	28.4	28.3	29.0	29.6	31.4	32.1	32.0	32.7	33.3
	8H	27.8	28.4	28.4	29.0	29.6	31.6	32.3	32.2	32.9	33.5
	12H	27.8	28.4	28.4	28.9	29.6	31.9	32.4	32.4	33.0	33.7
12H	4H	27.4	28.2	28.0	28.7	29.3	30.7	31.5	31.3	32.0	32.6
	6H	27.9	28.6	28.5	29.1	29.8	31.4	32.1	32.0	32.6	33.3
	8H	28.1	28.7	28.7	29.3	29.9	31.7	32.3	32.3	32.9	33.5

Maximum UGR = 33.7

POLAR GRAPH



Maximum Candela = 23066 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.)