



IES INDOOR REPORT
PHOTOMETRIC FILENAME : L-4-XX-850-4-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-850-4-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	94474
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	153
Total Luminaire Watts	618.74
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)	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	68369	80846	87350
55	56849	80921	98936
65	43723	86275	97521
75	27203	74176	67697
85	11555	31507	13820

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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	30868	30868	30868	30868	30868	30868	30868	30868	30868	30868
5	30622	30674	30760	30840	30758	30606	30478	30434	30442	30532
10	30212	30282	30242	30058	29988	30194	30520	30798	30984	31070
15	29528	29414	29200	29182	29618	30014	30220	30210	30130	30080
20	28476	28100	27992	28290	28658	28664	28700	28804	28770	28878
25	26972	26618	26626	26916	26972	27042	27088	27274	27410	27182
30	24924	24668	24706	24950	25106	25038	25530	25266	25100	25470
35	22502	22296	22446	23022	22804	23140	22894	23014	23640	24136
40	19704	19622	20180	20416	20442	20450	20678	21358	22034	22426
45	16788	16848	17558	17774	17812	18008	18674	19514	19968	20626
50	14044	14160	14686	14908	15176	15650	16702	17284	18036	18744
55	11398	11546	11876	12128	12564	13552	14310	15126	16154	17122
60	8932	9002	9182	9492	10204	11072	12096	13344	14888	16012
65	6530	6568	6704	7148	7924	8920	10330	11726	13084	13944
70	4332	4374	4568	5090	5940	7086	8370	9630	10824	11582
75	2548	2576	2838	3344	4188	5104	6080	6988	7806	7918
80	1244	1334	1520	1904	2404	2938	3294	3958	4464	4746
85	406	446	546	650	798	980	1194	1422	1534	1532
90	134	134	136	140	144	150	154	160	164	168
95	154	170	146	146	148	150	152	156	162	166
100	196	240	262	222	150	148	148	150	154	158
105	236	318	396	462	402	202	142	140	142	144
110	284	378	528	610	728	706	440	202	130	126
115	340	458	646	816	832	990	974	830	474	260
120	400	506	646	902	1086	1036	1196	1214	1138	990
125	458	552	682	996	1146	1286	1186	1288	1366	1320
130	518	576	750	952	1214	1322	1420	1310	1296	1402
135	564	606	766	892	1192	1332	1410	1492	1446	1342
140	586	620	726	912	1066	1304	1402	1446	1510	1546
145	608	634	688	886	996	1158	1338	1436	1462	1508
150	634	658	676	820	968	1046	1170	1330	1426	1482
155	648	666	680	730	866	984	1054	1114	1230	1348
160	650	662	674	682	744	852	948	1022	1068	1108
165	640	638	648	662	672	704	768	840	910	960
170	644	642	646	652	658	662	666	674	696	718
175	674	676	674	672	670	674	676	676	680	680
180	666	666	666	666	666	666	666	666	666	666

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	30868	30868	30868	30868	30868	30868	30868	30868	30868
5	30638	30768	30858	30952	31052	31116	31158	31186	31206
10	31032	31056	31044	31022	31010	31000	30994	30986	30978
15	30112	30044	29962	29988	30146	30314	30400	30426	30420
20	29238	29076	28916	28908	28848	28798	28780	28772	28768
25	27114	27338	27648	27924	28072	28146	28222	28276	28310
30	26078	26298	26610	26874	27136	27376	27444	27458	27470
35	24706	25170	25392	25434	25540	25586	25506	25460	25430
40	23008	23484	23638	23620	23668	23728	23796	23864	23870
45	21170	21548	21766	21886	22056	22186	22290	22390	22438
50	19282	19592	20210	20994	21800	22454	22812	22964	22968
55	18064	19088	19880	20248	20528	20794	21018	21100	21134
60	16630	17334	18024	18640	19036	19158	19220	19214	19206

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CANDELA TABULATION - (Cont.)

65	14806	15638	15868	15742	15750	15886	16016	16016	15980
70	11916	12048	12176	12166	12068	11892	11720	11530	11414
75	7846	7960	8116	8280	8184	7958	7690	7496	7388
80	4830	4706	4476	4118	3752	3452	3278	3166	3104
85	1466	1346	1192	1042	900	810	752	720	706
90	174	176	178	182	184	186	186	188	188
95	170	174	176	180	182	184	186	188	188
100	162	166	168	170	174	176	178	180	180
105	144	146	150	154	158	160	164	164	166
110	128	128	132	134	136	138	140	140	142
115	170	118	116	118	120	122	124	126	126
120	714	436	290	208	186	160	136	126	124
125	1246	1196	1030	858	732	556	480	448	434
130	1444	1420	1346	1308	1276	1254	1230	1212	1208
135	1334	1402	1452	1466	1456	1446	1432	1424	1436
140	1492	1410	1366	1354	1378	1406	1428	1440	1446
145	1552	1588	1588	1550	1508	1472	1446	1434	1422
150	1502	1524	1550	1576	1598	1614	1622	1630	1636
155	1426	1472	1504	1522	1534	1540	1546	1550	1546
160	1164	1238	1310	1364	1406	1434	1454	1466	1464
165	1004	1042	1068	1096	1118	1136	1144	1152	1154
170	762	794	826	848	874	900	914	924	928
175	676	676	678	680	680	678	678	680	682
180	666	666	666	666	666	666	666	666	666

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	11373.01	N.A.	12.00
0-30	24015.02	N.A.	25.40
0-40	39104.87	N.A.	41.40
0-60	69698.9	N.A.	73.80
0-80	88630.8	N.A.	93.80
0-90	90131.48	N.A.	95.40
10-90	87194.28	N.A.	92.30
20-40	27731.86	N.A.	29.40
20-50	43357.67	N.A.	45.90
40-70	42755.93	N.A.	45.30
60-80	18931.9	N.A.	20.00
70-80	6769.99	N.A.	7.20
80-90	1500.68	N.A.	1.60
90-110	417.87	N.A.	0.40
90-120	849.37	N.A.	0.90
90-130	1673.49	N.A.	1.80
90-150	3451.33	N.A.	3.70
90-180	4342.86	N.A.	4.60
110-180	3924.99	N.A.	4.20
0-180	94474.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2937.2
10-20	8435.82
20-30	12642.00
30-40	15089.85
40-50	15625.82
50-60	14968.21
60-70	12161.9
70-80	6769.99
80-90	1500.69
90-100	184.45
100-110	233.42
110-120	431.50
120-130	824.12
130-140	969.60
140-150	808.24
150-160	559.62
160-170	264.54
170-180	67.38

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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	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

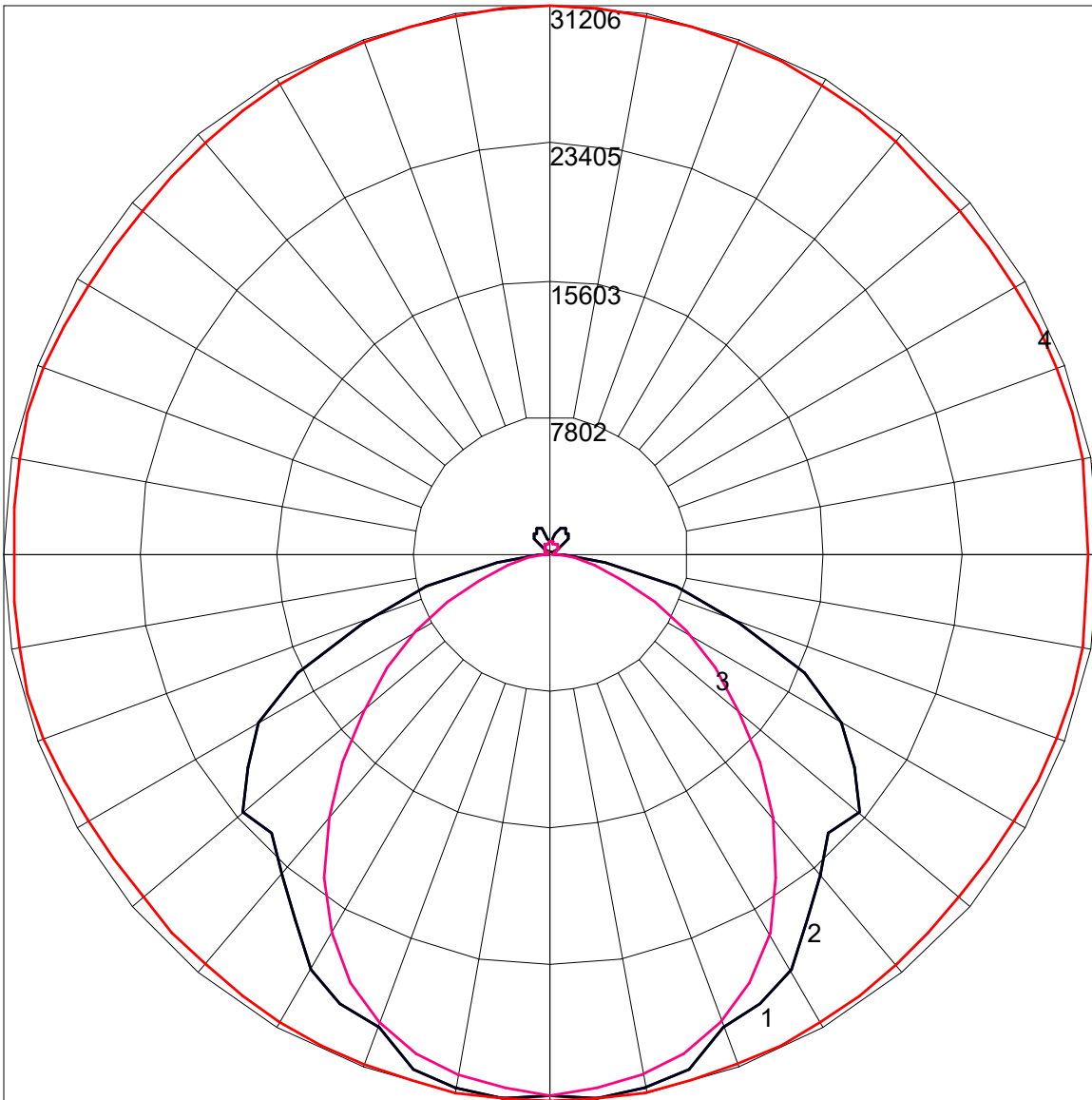
Reflectances

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	24.8	26.3	25.2	26.7	27.2	28.9	30.5	29.4	30.9	31.3
	3H	25.8	27.2	26.3	27.7	28.1	30.9	32.2	31.3	32.7	33.2
	4H	26.1	27.4	26.6	27.9	28.4	31.4	32.8	31.9	33.2	33.7
	6H	26.2	27.5	26.7	27.9	28.4	31.7	32.9	32.2	33.4	33.9
	8H	26.3	27.4	26.8	27.9	28.4	31.8	32.9	32.3	33.4	33.9
	12H	26.3	27.4	26.8	27.8	28.4	31.7	32.9	32.3	33.3	33.9
4H	2H	26.5	27.8	27.0	28.2	28.7	29.4	30.7	29.9	31.2	31.7
	3H	27.9	29.0	28.4	29.5	30.0	31.6	32.7	32.1	33.2	33.7
	4H	28.4	29.3	28.9	29.9	30.4	32.4	33.4	32.9	33.9	34.4
	6H	28.6	29.4	29.1	30.0	30.5	32.7	33.6	33.3	34.1	34.7
	8H	28.6	29.4	29.1	29.9	30.5	32.8	33.6	33.3	34.1	34.7
	12H	28.6	29.3	29.1	29.9	30.5	32.8	33.5	33.4	34.1	34.7
8H	4H	29.2	30.1	29.8	30.6	31.2	32.6	33.4	33.1	33.9	34.5
	6H	29.6	30.3	30.2	30.9	31.5	33.1	33.7	33.6	34.3	34.9
	8H	29.7	30.3	30.3	30.9	31.5	33.2	33.8	33.8	34.4	35.0
	12H	29.7	30.3	30.3	30.8	31.5	33.2	33.7	33.8	34.3	35.0
12H	4H	29.3	30.1	29.9	30.6	31.2	32.6	33.3	33.1	33.9	34.5
	6H	29.8	30.4	30.4	31.0	31.6	33.1	33.7	33.7	34.3	34.9
	8H	29.9	30.5	30.5	31.0	31.7	33.2	33.8	33.8	34.3	35.0

Maximum UGR = 35.0

POLAR GRAPH



Maximum Candela = 31206 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.)