



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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L072111020
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUE DATE] 9/8/2021
 [MANUFAC] LUX DYNAMICS
 [LUMCAT] L-2-SA-850-2-U10 HO5
 [LUMINAIRE] LED LUMINAIRE
 [BALLASTCAT] SIGNIFY ADVANCE XJ180C180V144BSF2
 [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	23837
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	155
Total Luminaire Watts	153.63
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.36
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	33332	38365	42377
55	27440	37977	48055
65	20649	40564	47818
75	12214	36757	36703
85	4488	26659	27294

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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	7721	7721	7721	7721	7721	7721	7721	7721	7721	7721
5	7664	7665	7684	7718	7724	7712	7697	7690	7689	7689
10	7557	7566	7596	7582	7580	7611	7653	7680	7682	7715
15	7369	7377	7362	7385	7444	7472	7522	7534	7520	7522
20	7069	7061	7056	7094	7122	7150	7180	7261	7335	7386
25	6711	6695	6707	6715	6731	6790	6908	6979	6937	6819
30	6196	6204	6176	6213	6298	6426	6503	6372	6270	6291
35	5598	5612	5594	5741	5831	5901	5767	5717	5792	5883
40	4900	4918	5006	5165	5237	5156	5121	5211	5331	5421
45	4166	4213	4347	4520	4498	4444	4547	4690	4797	4958
50	3480	3525	3655	3779	3743	3795	4004	4142	4294	4466
55	2818	2860	2960	3010	3038	3221	3404	3598	3831	4087
60	2194	2225	2271	2301	2422	2614	2867	3169	3530	3824
65	1596	1611	1632	1698	1851	2090	2456	2806	3123	3356
70	1049	1062	1086	1188	1379	1659	2017	2333	2614	2837
75	605	610	653	774	973	1219	1484	1728	1944	2034
80	287	295	343	443	585	732	881	1061	1227	1329
85	91	101	131	176	249	324	422	526	623	700
90	34	41	59	89	129	184	249	324	406	475
95	38	43	58	79	119	160	204	257	314	357
100	46	48	60	80	97	127	165	211	251	277
105	55	56	71	94	127	139	153	172	195	212
110	65	68	73	117	139	191	191	190	195	195
115	75	77	77	130	172	187	241	245	229	217
120	88	94	86	106	179	217	235	221	285	273
125	99	103	94	109	165	210	236	263	228	252
130	108	104	101	120	136	212	230	227	270	273
135	118	110	106	126	145	160	225	254	219	246
140	121	117	107	124	148	161	170	219	258	249
145	125	120	105	124	142	161	169	172	192	234
150	131	128	114	120	135	150	167	175	175	179
155	136	134	126	115	130	139	152	164	173	179
160	137	136	134	126	119	129	137	144	154	161
165	138	136	134	132	127	123	122	128	135	138
170	141	139	137	136	135	132	129	128	125	125
175	146	145	144	143	143	142	142	141	140	139
180	145	145	145	145	145	145	145	145	145	145

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	7721	7721	7721	7721	7721	7721	7721	7721	7721
5	7707	7726	7744	7768	7798	7821	7835	7838	7845
10	7737	7750	7749	7749	7766	7781	7788	7790	7792
15	7573	7610	7644	7676	7717	7740	7755	7757	7755
20	7393	7338	7289	7260	7237	7223	7205	7197	7190
25	6771	6798	6841	6890	6922	6949	6960	6971	6971
30	6383	6432	6501	6591	6654	6696	6703	6697	6691
35	6014	6101	6155	6206	6214	6225	6228	6223	6217
40	5558	5666	5696	5721	5726	5746	5771	5793	5793
45	5082	5172	5230	5275	5322	5361	5404	5445	5457
50	4609	4705	4861	5090	5305	5453	5540	5581	5604
55	4337	4590	4766	4870	4964	5040	5108	5140	5146
60	3999	4190	4373	4519	4611	4637	4659	4648	4634

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CANDELA TABULATION - (Cont.)

65	3593	3774	3845	3851	3876	3912	3931	3937	3928
70	2930	2976	3016	3037	3054	3041	3028	3027	3028
75	2089	2147	2192	2221	2190	2136	2071	2027	2008
80	1382	1393	1386	1337	1269	1207	1168	1149	1141
85	755	787	773	740	715	703	701	700	699
90	528	547	535	526	518	508	497	490	487
95	384	395	397	390	377	363	352	346	343
100	290	299	305	303	294	287	282	278	277
105	224	233	239	242	242	240	239	239	238
110	195	195	197	199	203	206	209	211	212
115	215	205	199	195	193	194	196	200	202
120	254	235	226	219	218	217	214	212	214
125	299	296	280	265	253	243	239	238	236
130	235	227	274	299	298	294	291	289	289
135	274	276	267	241	224	224	231	241	245
140	223	236	262	274	274	275	276	277	279
145	262	265	245	228	225	232	241	247	249
150	193	218	242	259	269	273	273	271	271
155	181	180	183	188	195	202	210	214	216
160	172	178	181	183	186	187	187	187	187
165	143	148	154	159	165	168	170	171	172
170	125	126	128	130	133	135	137	138	139
175	139	139	139	138	138	137	136	136	137
180	145	145	145	145	145	145	145	145	145

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2860.03	N.A.	12.00
0-30	6015.88	N.A.	25.20
0-40	9737.32	N.A.	40.80
0-60	17166.36	N.A.	72.00
0-80	21877.91	N.A.	91.80
0-90	22533.52	N.A.	94.50
10-90	21796.81	N.A.	91.40
20-40	6877.29	N.A.	28.90
20-50	10687.03	N.A.	44.80
40-70	10384.24	N.A.	43.60
60-80	4711.55	N.A.	19.80
70-80	1756.35	N.A.	7.40
80-90	655.61	N.A.	2.80
90-110	497.28	N.A.	2.10
90-120	681.53	N.A.	2.90
90-130	875.77	N.A.	3.70
90-150	1168.47	N.A.	4.90
90-180	1303.78	N.A.	5.50
110-180	806.50	N.A.	3.40
0-180	23837.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	736.71
10-20	2123.32
20-30	3155.85
30-40	3721.44
40-50	3809.75
50-60	3619.3
60-70	2955.19
70-80	1756.35
80-90	655.61
90-100	299.46
100-110	197.82
110-120	184.25
120-130	194.24
130-140	166.07
140-150	126.63
150-160	80.68
160-170	41.48
170-180	13.15

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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
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	95
1	107	102	97	93	104	99	95	91	94	91	87	89	86	84	85	82	80	78
2	97	88	81	75	94	86	80	74	82	76	72	77	73	69	74	70	67	64
3	88	77	69	62	85	75	68	62	72	65	60	68	63	58	65	60	56	54
4	81	68	60	53	78	67	58	52	64	56	51	61	54	49	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	42	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

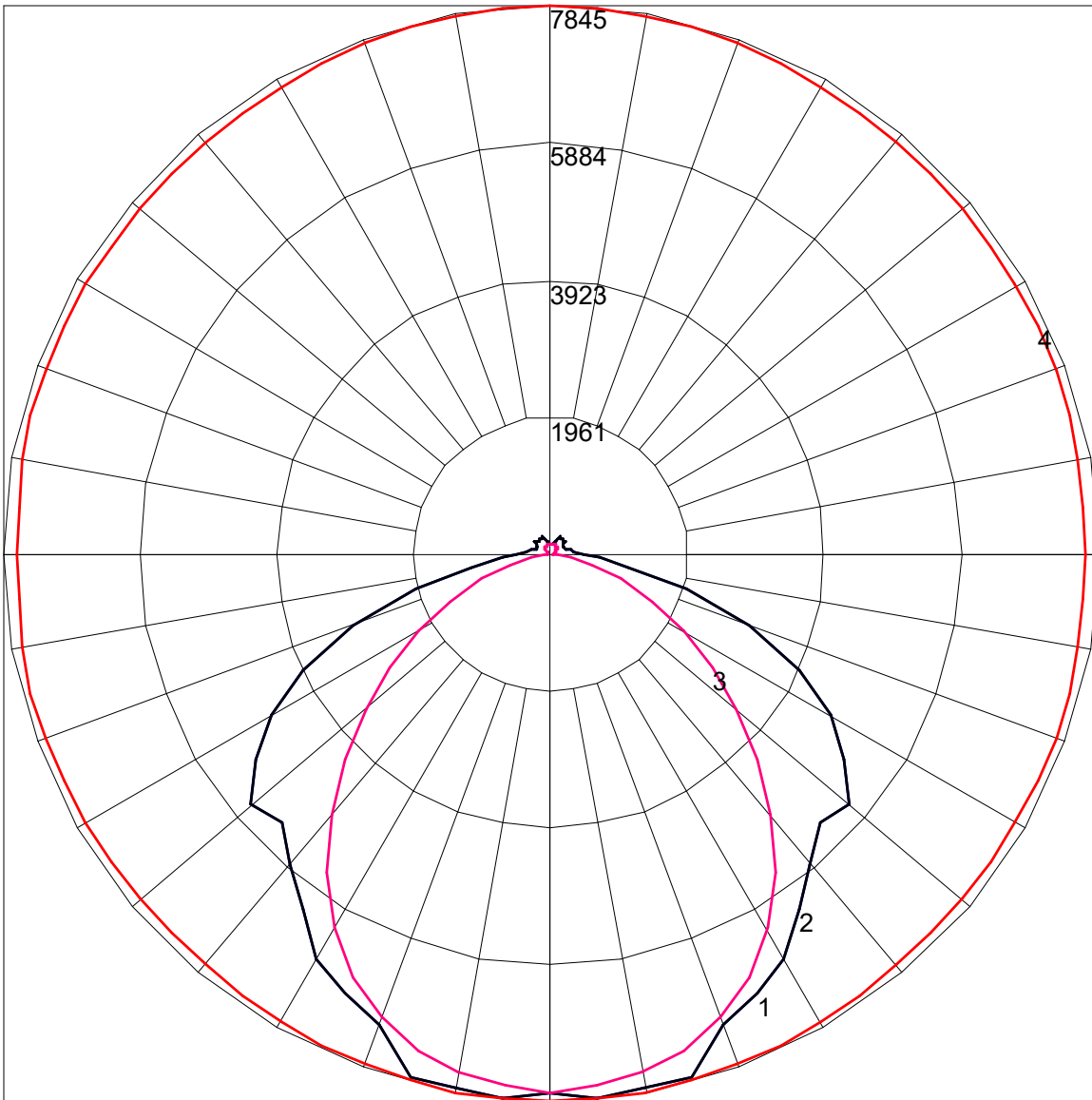
Reflectances

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	22.0	23.5	22.4	23.9	24.4	26.1	27.6	26.6	28.1	28.5
	3H	23.0	24.4	23.5	24.9	25.4	28.2	29.5	28.6	30.0	30.5
	4H	23.3	24.6	23.8	25.1	25.6	28.9	30.1	29.3	30.6	31.1
	6H	23.4	24.6	23.9	25.1	25.6	29.3	30.5	29.8	31.0	31.5
	8H	23.4	24.6	23.9	25.1	25.6	29.4	30.6	29.9	31.1	31.6
	12H	23.4	24.5	23.9	25.0	25.6	29.6	30.7	30.1	31.2	31.7
4H	2H	23.7	25.0	24.2	25.4	26.0	26.6	27.9	27.1	28.4	28.9
	3H	25.1	26.2	25.6	26.7	27.3	28.9	30.0	29.4	30.5	31.1
	4H	25.5	26.5	26.0	27.0	27.6	29.8	30.8	30.3	31.3	31.9
	6H	25.7	26.6	26.2	27.1	27.7	30.3	31.2	30.9	31.8	32.4
	8H	25.7	26.5	26.3	27.1	27.7	30.6	31.4	31.1	31.9	32.5
	12H	25.7	26.4	26.3	27.0	27.6	30.7	31.5	31.3	32.1	32.7
8H	4H	26.5	27.3	27.1	27.9	28.5	30.0	30.8	30.6	31.4	32.0
	6H	26.9	27.6	27.5	28.2	28.8	30.7	31.4	31.3	32.0	32.6
	8H	27.0	27.6	27.6	28.2	28.8	31.1	31.7	31.7	32.3	32.9
	12H	27.0	27.6	27.6	28.2	28.8	31.3	31.9	31.9	32.5	33.2
12H	4H	26.7	27.4	27.2	28.0	28.6	30.0	30.8	30.6	31.3	31.9
	6H	27.2	27.8	27.8	28.4	29.0	30.8	31.4	31.4	32.0	32.6
	8H	27.4	27.9	28.0	28.5	29.2	31.2	31.7	31.8	32.3	33.0

Maximum UGR = 33.2

POLAR GRAPH



- Maximum Candela = 7845 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.)