



IES INDOOR REPORT
PHOTOMETRIC FILENAME : E-12-XX-850-2-X-CA HO5.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L072111038
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUE DATE] 9/7/2021
 [MANUFAC] LUX DYNAMICS
 [LUMCAT] E-12-DA-850-2-U10 HO5
 [LUMINAIRE] LED LUMINAIRE
 [BALLASTCAT] SIGNIFY ADVANCE XJ180C180V144BSF2 (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	75049
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	165
Total Luminaire Watts	455.01
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	3.04 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	32687	41680	46258
55	27167	42148	52822
65	20588	45254	52536
75	12412	38468	38203
85	4704	18099	9763

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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	23838	23838	23838	23838	23838	23838	23838	23838	23838	23838
5	23785	23777	23777	23764	23747	23742	23753	23781	23829	23873
10	23371	23347	23352	23409	23507	23609	23744	23873	23967	24025
15	22750	22715	22721	22818	23030	23246	23376	23447	23458	23439
20	21826	21794	21816	21982	22143	22223	22332	22404	22504	22582
25	20675	20633	20701	20813	20880	20945	21049	21209	21369	21461
30	19164	19107	19156	19297	19385	19509	19697	19787	20000	20411
35	17302	17273	17396	17626	17709	17865	18033	18388	18870	19300
40	15147	15208	15513	15728	15833	16056	16502	17072	17581	18021
45	12937	13089	13411	13670	13890	14304	14965	15605	16095	16573
50	10835	10979	11239	11536	11944	12604	13356	13954	14470	15004
55	8835	8934	9130	9499	10058	10817	11529	12188	12980	13797
60	6900	6962	7145	7576	8196	8961	9813	10850	11941	12780
65	5039	5085	5286	5764	6388	7265	8372	9471	10425	11183
70	3339	3401	3663	4113	4794	5702	6733	7705	8514	9094
75	1947	2020	2276	2709	3313	4053	4819	5515	6002	6131
80	939	1005	1191	1498	1868	2239	2614	3079	3451	3696
85	302	332	401	481	594	736	916	1094	1193	1209
90	109	109	108	110	113	117	121	126	130	134
95	169	176	140	117	117	119	122	125	128	130
100	234	285	336	261	137	117	117	118	119	121
105	301	384	493	565	496	242	121	105	104	104
110	371	471	655	709	790	805	503	230	119	92
115	444	533	756	885	896	973	1039	836	511	280
120	520	593	811	998	1055	1025	1070	1153	1133	937
125	578	641	835	1047	1134	1150	1103	1104	1157	1216
130	624	673	828	1019	1150	1179	1179	1151	1116	1138
135	654	688	812	956	1111	1179	1180	1188	1172	1146
140	656	679	784	904	1012	1123	1172	1170	1184	1172
145	652	663	747	843	941	1028	1117	1149	1191	1160
150	650	648	712	784	863	932	997	1077	1099	1136
155	649	649	679	731	776	841	888	918	975	1029
160	637	635	643	674	706	737	773	810	841	863
165	608	608	613	627	647	672	689	708	726	747
170	600	600	604	609	616	629	641	655	667	677
175	620	620	619	618	618	620	623	625	629	634
180	642	642	642	642	642	642	642	642	642	642

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	23838	23838	23838	23838	23838	23838	23838	23838	23838
5	23913	23978	24038	24087	24127	24154	24174	24177	24175
10	24055	24083	24100	24103	24109	24100	24090	24084	24090
15	23392	23404	23439	23471	23512	23533	23541	23554	23558
20	22634	22690	22713	22732	22775	22833	22871	22886	22904
25	21578	21767	21990	22193	22347	22452	22501	22543	22559
30	20782	21038	21274	21513	21662	21741	21786	21796	21801
35	19732	20096	20265	20345	20384	20392	20377	20351	20334
40	18439	18759	18865	18902	18945	18987	19047	19088	19095
45	16974	17258	17421	17534	17686	17828	17983	18077	18104
50	15453	15832	16363	16989	17594	18002	18207	18320	18373
55	14535	15327	15893	16182	16491	16708	16839	16902	16908
60	13364	13896	14439	14868	15145	15316	15283	15266	15262

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PHOTOMETRIC FILENAME : E-12-XX-850-2-X-CA HO5.IES

CANDELA TABULATION - (Cont.)

65	11876	12341	12513	12471	12475	12573	12599	12572	12561
70	9383	9519	9551	9427	9285	9167	9069	8934	8869
75	6202	6289	6400	6479	6393	6182	5978	5820	5762
80	3751	3658	3491	3229	2934	2712	2566	2481	2442
85	1158	1061	946	817	730	639	597	575	566
90	138	140	143	146	148	149	151	152	152
95	133	135	137	140	141	143	144	145	146
100	122	124	125	127	128	129	131	131	132
105	104	105	105	106	106	107	108	109	109
110	90	89	89	89	90	90	92	93	93
115	154	103	80	78	79	79	81	82	81
120	668	442	280	195	158	128	113	107	105
125	1192	1088	938	785	652	549	484	445	437
130	1173	1219	1242	1227	1182	1130	1096	1071	1072
135	1120	1129	1150	1168	1183	1202	1221	1236	1247
140	1172	1171	1151	1124	1117	1117	1124	1133	1142
145	1183	1203	1180	1172	1180	1181	1181	1185	1190
150	1174	1168	1149	1162	1175	1205	1211	1215	1223
155	1052	1053	1082	1098	1120	1142	1151	1160	1161
160	874	910	929	954	975	987	1000	1007	1010
165	768	786	801	811	820	832	844	848	853
170	686	693	704	716	723	730	738	744	748
175	640	645	650	656	661	666	671	673	672
180	642	642	642	642	642	642	642	642	642

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	8847.03	N.A.	11.80
0-30	18782.17	N.A.	25.00
0-40	30711.33	N.A.	40.90
0-60	55093.01	N.A.	73.40
0-80	70055.02	N.A.	93.30
0-90	71224.49	N.A.	94.90
10-90	68944.41	N.A.	91.90
20-40	21864.3	N.A.	29.10
20-50	34295.61	N.A.	45.70
40-70	34037.02	N.A.	45.40
60-80	14962.01	N.A.	19.90
70-80	5306.67	N.A.	7.10
80-90	1169.47	N.A.	1.60
90-110	379.63	N.A.	0.50
90-120	818.07	N.A.	1.10
90-130	1598.05	N.A.	2.10
90-150	3107.7	N.A.	4.10
90-180	3824.81	N.A.	5.10
110-180	3445.18	N.A.	4.60
0-180	75049.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2280.09
10-20	6566.94
20-30	9935.14
30-40	11929.16
40-50	12431.3
50-60	11950.38
60-70	9655.34
70-80	5306.67
80-90	1169.47
90-100	152.65
100-110	226.97
110-120	438.44
120-130	779.99
130-140	843.61
140-150	666.04
150-160	441.08
160-170	213.77
170-180	62.26

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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	115	115	115	115	108	108	108	103	103	103	97	97	97	95
1	107	103	98	94	104	100	96	92	95	91	89	90	87	85	85	83	82	79
2	97	89	82	76	94	87	80	75	82	77	73	78	74	70	75	71	68	65
3	89	78	70	63	86	76	68	62	72	66	60	69	63	59	66	61	57	55
4	81	69	60	53	78	67	59	52	64	57	51	61	55	50	58	53	49	46
5	74	61	52	46	72	60	51	45	57	50	44	55	48	43	52	47	42	40
6	69	55	46	40	66	54	45	39	52	44	38	49	43	38	47	42	37	35
7	63	50	41	35	61	49	40	35	47	39	34	45	38	33	43	37	33	31
8	59	45	37	31	57	45	36	31	43	35	30	41	35	30	40	34	29	27
9	55	42	33	28	53	41	33	28	39	32	27	38	31	27	37	31	26	24
10	52	38	30	25	50	38	30	25	36	29	25	35	29	24	34	28	24	22

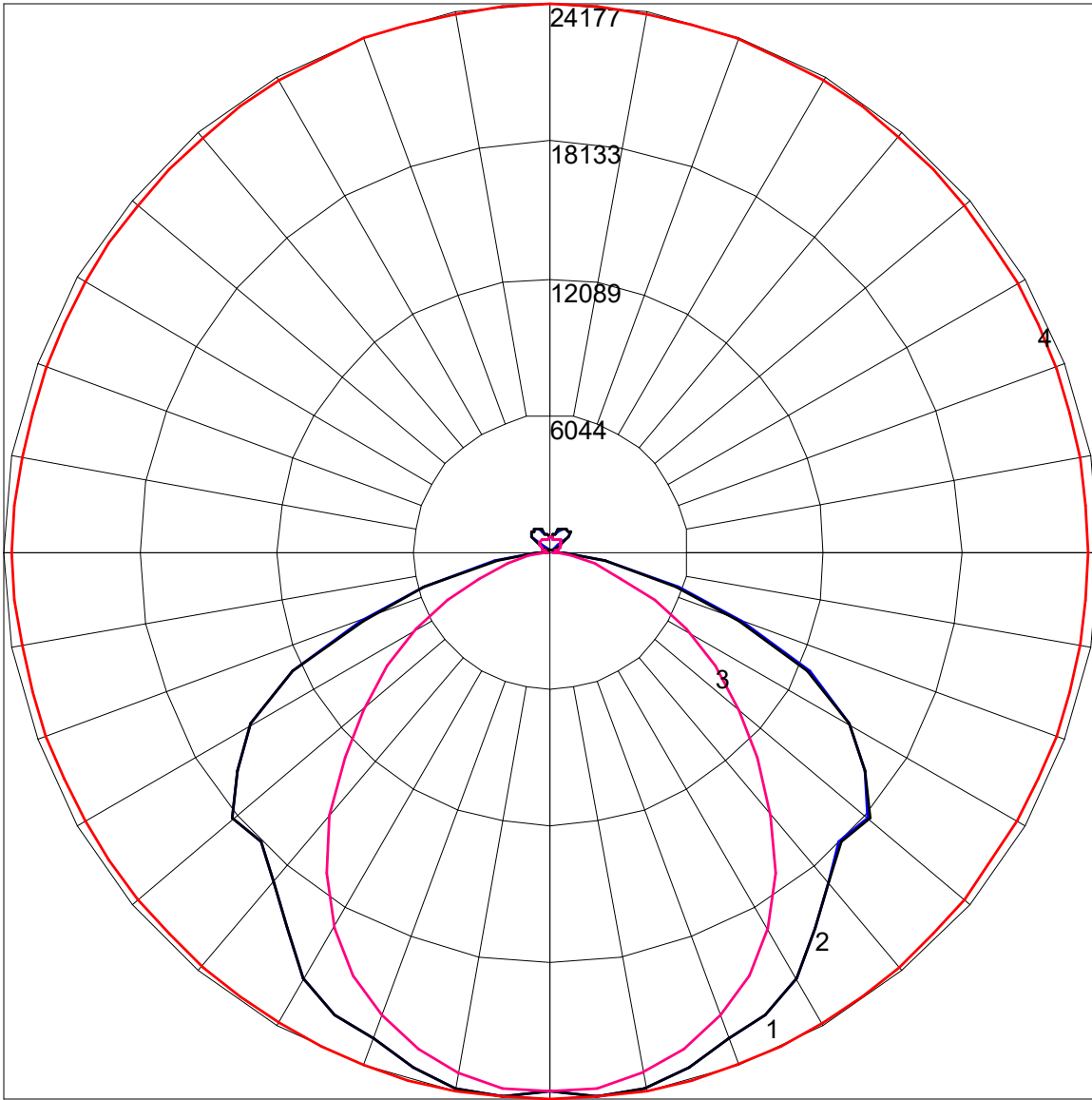
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UGR TABLE - CORRECTED

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	22.6	24.1	23.0	24.5	25.0	26.6	28.1	27.0	28.5	28.9
	3H	23.7	25.1	24.1	25.5	26.0	28.4	29.8	28.8	30.2	30.7
	4H	24.0	25.3	24.4	25.7	26.2	28.9	30.2	29.4	30.7	31.2
	6H	24.1	25.3	24.6	25.8	26.3	29.2	30.4	29.7	30.9	31.4
	8H	24.1	25.3	24.6	25.8	26.3	29.2	30.4	29.7	30.9	31.4
	12H	24.1	25.2	24.6	25.7	26.3	29.2	30.3	29.7	30.8	31.4
4H	2H	24.3	25.6	24.7	26.0	26.5	27.1	28.4	27.5	28.8	29.3
	3H	25.8	26.9	26.3	27.4	27.9	29.2	30.3	29.7	30.8	31.3
	4H	26.2	27.2	26.7	27.7	28.3	29.9	30.9	30.4	31.4	31.9
	6H	26.4	27.3	27.0	27.8	28.4	30.3	31.1	30.8	31.7	32.2
	8H	26.5	27.3	27.0	27.8	28.4	30.3	31.1	30.8	31.6	32.2
	12H	26.5	27.2	27.0	27.8	28.3	30.3	31.0	30.9	31.6	32.2
8H	4H	27.1	27.9	27.6	28.4	29.0	30.1	30.9	30.7	31.5	32.1
	6H	27.5	28.1	28.0	28.7	29.3	30.6	31.3	31.2	31.9	32.4
	8H	27.5	28.1	28.1	28.7	29.3	30.7	31.3	31.3	31.9	32.5
	12H	27.6	28.1	28.2	28.7	29.3	30.7	31.3	31.3	31.8	32.5
12H	4H	27.1	27.9	27.7	28.4	29.0	30.1	30.9	30.7	31.4	32.0
	6H	27.6	28.2	28.2	28.8	29.4	30.6	31.2	31.2	31.8	32.4
	8H	27.8	28.3	28.4	28.9	29.5	30.8	31.3	31.4	31.9	32.6

Maximum UGR = 32.6

POLAR GRAPH



Maximum Candela = 24177 Located At Horizontal Angle = 85, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (85 - 265) (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.)