



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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L072111030
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUE DATE] 9/8/2021
 [MANUFAC] LUX DYNAMICS
 [LUMCAT] E-4-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	25214
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	165
Total Luminaire Watts	152.66
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)	1.46 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	23095	27855	30537
55	19035	27737	35037
65	14386	29906	35379
75	8695	26859	27232
85	3470	17526	15064

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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	8086	8086	8086	8086	8086	8086	8086	8086	8086	8086
5	8031	8032	8049	8060	8052	8026	8005	7997	7997	8000
10	7922	7917	7916	7883	7881	7914	7982	8070	8134	8157
15	7719	7697	7646	7655	7740	7875	7939	7945	7918	7906
20	7427	7365	7335	7403	7515	7551	7547	7585	7566	7602
25	7035	6966	6963	7057	7086	7095	7122	7191	7259	7194
30	6508	6453	6469	6542	6572	6584	6729	6682	6652	6756
35	5884	5837	5879	6006	5981	6100	6065	6102	6248	6361
40	5159	5135	5273	5331	5377	5411	5469	5632	5782	5889
45	4390	4407	4563	4631	4693	4749	4922	5120	5240	5397
50	3667	3698	3811	3900	3994	4110	4371	4527	4707	4888
55	2973	2997	3079	3186	3298	3546	3748	3962	4188	4450
60	2320	2334	2398	2501	2673	2900	3179	3488	3853	4177
65	1691	1702	1758	1875	2053	2318	2704	3089	3417	3656
70	1118	1136	1191	1323	1524	1860	2201	2553	2837	3062
75	655	669	741	870	1081	1333	1627	1858	2079	2158
80	320	333	391	501	635	793	932	1122	1273	1381
85	107	117	147	187	241	317	415	511	586	631
90	36	40	50	67	90	120	160	203	250	294
95	42	45	51	65	83	107	135	169	202	233
100	53	61	66	75	88	106	124	145	168	185
105	65	82	94	108	120	115	125	136	145	154
110	80	100	125	138	158	179	162	145	145	147
115	96	115	148	171	187	206	244	214	189	167
120	114	131	166	198	209	233	228	277	281	239
125	130	144	176	203	241	239	263	249	279	299
130	144	154	177	208	240	270	260	282	278	253
135	154	162	181	200	228	262	287	263	291	288
140	160	165	178	185	219	244	272	295	278	274
145	163	167	175	190	193	234	254	272	286	304
150	167	170	175	186	192	201	235	253	267	279
155	172	173	175	179	188	191	198	214	239	256
160	172	172	174	175	177	183	188	191	199	210
165	169	169	170	171	171	172	174	178	182	185
170	170	170	170	170	170	170	170	171	172	175
175	176	176	176	176	176	175	175	175	175	175
180	180	180	180	180	180	180	180	180	180	180

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	8086	8086	8086	8086	8086	8086	8086	8086	8086
5	8018	8047	8077	8103	8130	8154	8171	8177	8177
10	8164	8172	8178	8170	8162	8158	8162	8158	8151
15	7931	7925	7905	7902	7950	7991	8022	8031	8031
20	7711	7703	7664	7652	7648	7637	7636	7628	7627
25	7185	7223	7326	7396	7417	7447	7466	7480	7487
30	6876	6935	7022	7073	7132	7188	7220	7231	7234
35	6483	6600	6653	6686	6707	6687	6693	6705	6709
40	6025	6112	6183	6187	6215	6219	6227	6251	6265
45	5529	5624	5677	5724	5770	5813	5845	5856	5860
50	5020	5110	5250	5463	5687	5858	5978	6028	6035
55	4688	4962	5199	5296	5386	5462	5505	5530	5546
60	4355	4520	4706	4882	4995	5037	5061	5072	5067

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CANDELA TABULATION - (Cont.)

65	3886	4094	4177	4164	4156	4202	4236	4243	4241
70	3158	3207	3250	3249	3238	3211	3180	3145	3123
75	2186	2229	2270	2309	2294	2250	2186	2138	2119
80	1433	1422	1388	1320	1244	1173	1122	1095	1083
85	654	654	626	583	545	523	512	506	503
90	330	344	341	337	335	331	326	323	321
95	254	265	270	270	267	262	259	257	256
100	197	208	215	217	217	215	214	213	213
105	160	166	172	177	180	182	183	183	183
110	146	146	147	150	152	154	155	157	157
115	158	150	147	145	144	143	144	144	144
120	215	191	174	161	158	156	151	149	149
125	301	278	244	231	217	204	196	192	191
130	286	309	308	310	305	293	280	274	271
135	282	262	258	281	301	308	310	311	309
140	297	296	291	287	277	266	262	260	260
145	290	280	288	300	305	306	304	304	302
150	290	304	312	308	300	296	295	295	296
155	267	276	286	293	298	303	309	314	313
160	224	238	250	262	272	279	283	286	286
165	188	192	198	206	213	218	221	226	228
170	176	178	178	177	176	175	176	177	177
175	176	176	176	176	176	177	177	180	180
180	180	180	180	180	180	180	180	180	180

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2989.73	N.A.	11.90
0-30	6321.62	N.A.	25.10
0-40	10286.59	N.A.	40.80
0-60	18290.12	N.A.	72.50
0-80	23352.72	N.A.	92.60
0-90	23935.3	N.A.	94.90
10-90	23165.03	N.A.	91.90
20-40	7296.86	N.A.	28.90
20-50	11387.45	N.A.	45.20
40-70	11204.24	N.A.	44.40
60-80	5062.6	N.A.	20.10
70-80	1861.88	N.A.	7.40
80-90	582.58	N.A.	2.30
90-110	363.97	N.A.	1.40
90-120	528.42	N.A.	2.10
90-130	732.00	N.A.	2.90
90-150	1094.33	N.A.	4.30
90-180	1278.82	N.A.	5.10
110-180	914.85	N.A.	3.60
0-180	25214.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	770.27
10-20	2219.46
20-30	3331.89
30-40	3964.97
40-50	4090.59
50-60	3912.94
60-70	3200.72
70-80	1861.88
80-90	582.58
90-100	206.96
100-110	157.01
110-120	164.45
120-130	203.58
130-140	200.81
140-150	161.52
150-160	112.12
160-170	55.60
170-180	16.77

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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	
0	118	118	118	118	115	115	115	115	108	108	108	103	103	103	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	77	72	78	73	70	74	70	67	65
3	88	78	69	63	85	76	68	62	72	65	60	68	63	58	65	61	57	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

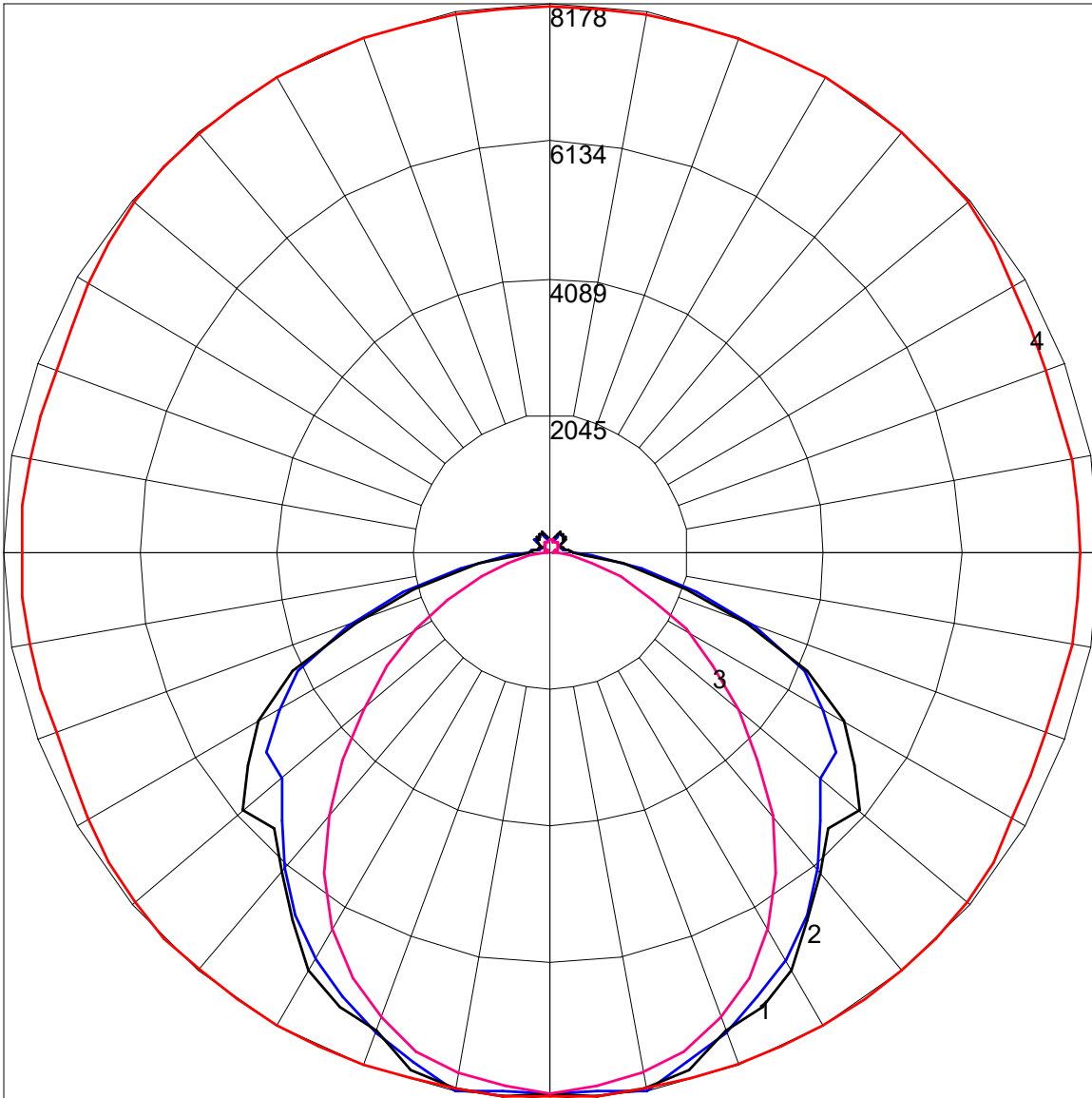
Reflectances

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	21.1	22.6	21.5	23.0	23.5	25.1	26.6	25.5	27.1	27.5
	3H	22.1	23.5	22.6	24.0	24.4	27.1	28.5	27.5	28.9	29.4
	4H	22.4	23.7	22.9	24.2	24.7	27.7	29.1	28.2	29.5	30.0
	6H	22.5	23.8	23.0	24.2	24.7	28.1	29.3	28.6	29.8	30.3
	8H	22.6	23.7	23.1	24.2	24.7	28.2	29.4	28.7	29.9	30.4
	12H	22.6	23.7	23.1	24.2	24.7	28.3	29.4	28.8	29.9	30.4
4H	2H	22.7	24.1	23.2	24.5	25.0	25.6	26.9	26.1	27.4	27.9
	3H	24.2	25.3	24.7	25.8	26.3	27.9	29.0	28.4	29.5	30.0
	4H	24.6	25.6	25.2	26.2	26.7	28.7	29.7	29.2	30.2	30.7
	6H	24.8	25.7	25.4	26.3	26.8	29.2	30.1	29.7	30.6	31.2
	8H	24.9	25.7	25.4	26.2	26.8	29.3	30.1	29.8	30.7	31.3
	12H	24.9	25.6	25.4	26.2	26.8	29.4	30.2	30.0	30.7	31.3
8H	4H	25.6	26.4	26.1	27.0	27.5	28.9	29.8	29.5	30.3	30.9
	6H	26.0	26.7	26.6	27.3	27.9	29.6	30.3	30.1	30.8	31.4
	8H	26.1	26.7	26.7	27.3	27.9	29.8	30.4	30.4	31.0	31.6
	12H	26.1	26.7	26.7	27.3	27.9	29.9	30.5	30.5	31.1	31.7
12H	4H	25.7	26.5	26.3	27.0	27.6	28.9	29.7	29.5	30.2	30.8
	6H	26.2	26.9	26.8	27.4	28.1	29.6	30.2	30.2	30.8	31.4
	8H	26.4	27.0	27.0	27.5	28.2	29.9	30.4	30.5	31.0	31.7

Maximum UGR = 31.7

POLAR GRAPH



Maximum Candela = 8178 Located At Horizontal Angle = 60, Vertical Angle = 10
1 - Vertical Plane Through Horizontal Angles (60 - 240) (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 (10) (Through Max. Cd.)