



IES INDOOR REPORT
PHOTOMETRIC FILENAME : E-7-XX-850-2-X-CA HO5.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L072111033
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUE DATE] 9/8/2021
 [MANUFAC] LUX DYNAMICS
 [LUMCAT] E-7-DA-850-2-U10 HO5
 [LUMINAIRE] LED LUMINAIRE
 [BALLASTCAT] OSRAM OPTOTRONIC OTI200W/UNV/900C/2DIM+/P6 (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	43496
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	164
Total Luminaire Watts	264.72
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	1.73 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	33618	41848	46384
55	27730	41919	52544
65	20885	44983	51709
75	12423	37761	36283
85	4516	16479	8300

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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	13973	13973	13973	13973	13973	13973	13973	13973	13973	13973
5	13858	13874	13927	13940	13934	13915	13900	13888	13906	13936
10	13633	13688	13699	13677	13688	13759	13882	14033	14128	14148
15	13290	13320	13273	13290	13448	13654	13730	13763	13747	13755
20	12818	12752	12716	12837	12978	13030	13054	13125	13110	13215
25	12167	12060	12065	12194	12238	12269	12300	12416	12542	12533
30	11275	11177	11164	11289	11344	11369	11576	11569	11614	11860
35	10182	10092	10149	10366	10316	10489	10498	10645	10956	11200
40	8885	8858	9097	9182	9246	9351	9550	9883	10211	10446
45	7572	7601	7852	7985	8088	8263	8632	9055	9304	9566
50	6314	6376	6565	6725	6922	7211	7729	8010	8332	8664
55	5132	5175	5303	5490	5767	6259	6642	7009	7460	7921
60	4001	4030	4127	4334	4720	5132	5624	6222	6899	7402
65	2909	2932	3033	3279	3638	4115	4788	5441	6055	6459
70	1914	1940	2061	2312	2742	3286	3879	4470	4963	5286
75	1109	1137	1276	1521	1907	2330	2768	3166	3497	3544
80	526	585	668	852	1070	1293	1489	1772	1998	2124
85	165	185	225	268	332	417	515	621	675	680
90	63	63	63	64	66	68	70	72	75	77
95	90	98	77	68	68	69	71	72	74	76
100	122	159	190	145	73	68	68	68	69	70
105	160	214	272	320	273	124	65	62	61	62
110	201	251	360	394	457	455	263	125	64	54
115	242	291	422	484	508	567	610	478	264	141
120	279	325	446	554	571	589	635	687	653	519
125	308	344	446	576	632	630	642	661	699	724
130	332	361	447	556	647	677	671	668	667	687
135	346	363	429	509	625	684	706	696	682	673
140	346	356	411	484	549	652	699	722	712	696
145	344	343	392	448	509	570	659	702	724	728
150	345	336	376	415	467	511	553	637	681	707
155	345	341	359	389	415	462	495	515	566	622
160	337	335	339	361	380	399	426	456	481	502
165	324	322	324	332	344	358	370	383	398	419
170	321	320	322	322	323	330	338	346	354	361
175	334	334	334	331	331	331	329	329	330	330
180	337	337	337	337	337	337	337	337	337	337

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	13973	13973	13973	13973	13973	13973	13973	13973	13973
5	13965	14016	14070	14115	14157	14195	14218	14220	14212
10	14161	14163	14162	14159	14156	14152	14144	14138	14131
15	13742	13693	13684	13723	13809	13858	13878	13883	13889
20	13346	13337	13323	13331	13329	13296	13284	13290	13295
25	12557	12645	12832	12955	13011	13054	13095	13121	13137
30	12105	12203	12369	12493	12621	12706	12732	12703	12693
35	11490	11716	11769	11809	11834	11819	11809	11768	11756
40	10694	10863	10923	10931	10966	10975	11014	11053	11059
45	9784	9971	10059	10136	10230	10323	10401	10466	10482
50	8900	9090	9439	9844	10206	10451	10577	10638	10668
55	8388	8870	9190	9340	9480	9611	9712	9763	9770
60	7682	8000	8323	8598	8757	8822	8861	8847	8842

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CANDELA TABULATION - (Cont.)

65	6843	7161	7239	7193	7189	7238	7269	7259	7252
70	5420	5491	5516	5439	5350	5293	5248	5181	5129
75	3568	3620	3676	3718	3659	3529	3399	3315	3276
80	2149	2081	1986	1823	1651	1514	1433	1389	1364
85	650	592	519	448	387	352	329	317	312
90	79	80	82	83	84	85	85	85	85
95	77	79	80	81	83	84	84	85	85
100	72	73	74	76	77	78	79	79	79
105	62	63	64	65	66	67	68	68	68
110	54	54	55	55	56	57	58	58	58
115	83	57	49	49	49	50	50	50	51
120	360	224	146	99	85	75	65	60	58
125	691	616	517	422	355	298	241	221	215
130	703	719	722	699	669	634	610	591	586
135	663	670	680	688	694	703	709	712	714
140	683	678	671	659	656	661	665	667	667
145	721	713	700	688	685	685	685	685	684
150	724	732	734	732	731	731	730	729	727
155	662	685	707	718	728	740	747	750	755
160	516	556	585	612	640	657	673	680	684
165	437	454	469	480	490	501	510	513	515
170	366	370	374	379	381	383	387	391	393
175	330	330	332	335	337	340	344	345	344
180	337	337	337	337	337	337	337	337	337

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	5184.3	N.A.	11.90
0-30	10985.22	N.A.	25.30
0-40	17926.00	N.A.	41.20
0-60	32027.48	N.A.	73.60
0-80	40638.52	N.A.	93.40
0-90	41298.93	N.A.	94.90
10-90	39962.68	N.A.	91.90
20-40	12741.7	N.A.	29.30
20-50	19944.07	N.A.	45.90
40-70	19667.00	N.A.	45.20
60-80	8611.05	N.A.	19.80
70-80	3045.52	N.A.	7.00
80-90	660.41	N.A.	1.50
90-110	216.92	N.A.	0.50
90-120	463.58	N.A.	1.10
90-130	902.82	N.A.	2.10
90-150	1776.68	N.A.	4.10
90-180	2196.64	N.A.	5.10
110-180	1979.72	N.A.	4.60
0-180	43495.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1336.26
10-20	3848.05
20-30	5800.91
30-40	6940.78
40-50	7202.38
50-60	6899.1
60-70	5565.53
70-80	3045.52
80-90	660.41
90-100	87.88
100-110	129.03
110-120	246.66
120-130	439.25
130-140	485.63
140-150	388.22
150-160	265.22
160-170	122.05
170-180	32.69

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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	115	115	115	115	108	108	108	103	103	103	97	97	97	95	95
1	107	103	98	95	104	100	96	92	95	92	89	90	87	85	86	84	82	79	79
2	98	89	82	77	94	87	81	75	82	77	73	78	74	70	75	71	68	66	66
3	89	78	70	63	86	76	68	62	72	66	61	69	63	59	66	61	57	55	55
4	81	69	60	53	78	67	59	53	64	57	51	61	55	50	58	53	49	47	47
5	74	61	52	46	72	60	52	45	57	50	44	55	48	43	52	47	42	40	40
6	69	55	46	40	66	54	46	39	52	44	39	50	43	38	47	42	37	35	35
7	64	50	41	35	62	49	41	35	47	40	34	45	38	34	43	37	33	31	31
8	59	46	37	31	57	45	37	31	43	36	30	41	35	30	40	34	29	27	27
9	55	42	34	28	54	41	33	28	39	32	27	38	32	27	37	31	27	25	25
10	52	39	31	25	50	38	30	25	36	30	25	35	29	24	34	28	24	22	22

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UGR TABLE - CORRECTED

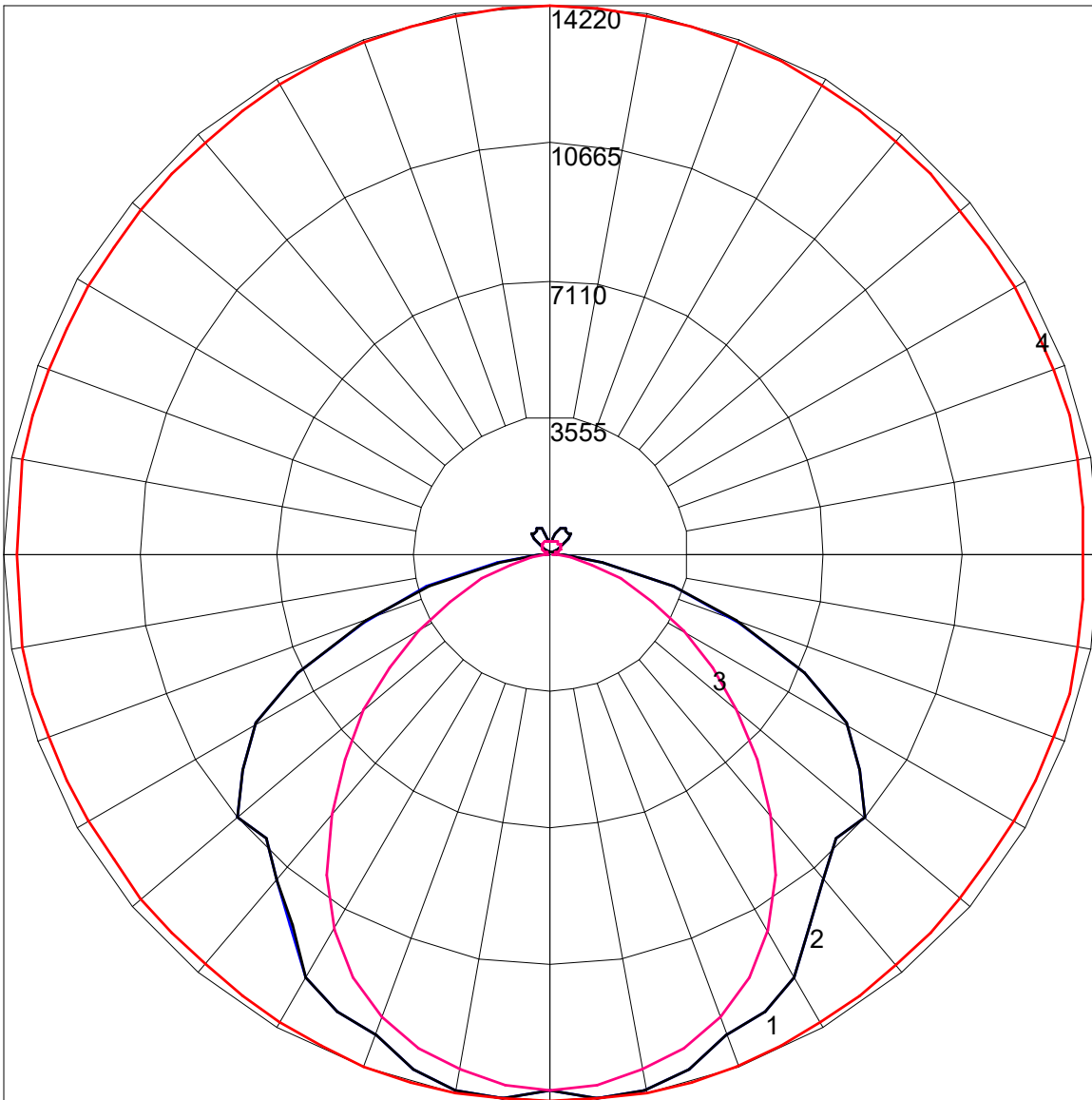
Reflectances

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	22.5	24.0	22.9	24.5	24.9	26.5	28.1	27.0	28.5	28.9
	3H	23.6	25.0	24.0	25.4	25.9	28.4	29.8	28.8	30.2	30.7
	4H	23.8	25.2	24.3	25.6	26.1	28.9	30.2	29.4	30.7	31.2
	6H	24.0	25.2	24.5	25.7	26.2	29.2	30.4	29.7	30.9	31.4
	8H	24.0	25.2	24.5	25.6	26.2	29.2	30.4	29.7	30.8	31.4
	12H	24.0	25.1	24.5	25.6	26.1	29.2	30.3	29.7	30.8	31.3
4H	2H	24.2	25.5	24.7	26.0	26.5	27.1	28.4	27.6	28.8	29.3
	3H	25.7	26.8	26.2	27.3	27.8	29.2	30.3	29.7	30.8	31.3
	4H	26.1	27.1	26.6	27.6	28.2	29.9	30.9	30.4	31.4	31.9
	6H	26.3	27.2	26.8	27.7	28.3	30.2	31.1	30.8	31.6	32.2
	8H	26.3	27.1	26.9	27.7	28.3	30.3	31.1	30.8	31.6	32.2
	12H	26.3	27.1	26.9	27.6	28.2	30.3	31.0	30.8	31.6	32.1
8H	4H	27.0	27.8	27.5	28.3	28.9	30.1	30.9	30.6	31.5	32.0
	6H	27.3	28.0	27.9	28.6	29.2	30.6	31.2	31.1	31.8	32.4
	8H	27.4	28.0	28.0	28.6	29.2	30.6	31.2	31.2	31.8	32.4
	12H	27.4	28.0	28.0	28.5	29.2	30.7	31.2	31.3	31.8	32.4
12H	4H	27.0	27.8	27.6	28.3	28.9	30.1	30.8	30.7	31.4	32.0
	6H	27.5	28.1	28.1	28.7	29.3	30.6	31.2	31.2	31.7	32.4
	8H	27.6	28.2	28.2	28.7	29.4	30.7	31.2	31.3	31.8	32.5

Maximum UGR = 32.5

POLAR GRAPH



Maximum Candela = 14220 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.)