



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LIT-4-850-X.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L072111017
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUE DATE] 9/7/2021
 [MANUFAC] LUX DYNAMICS
 [LUMCAT] LiT-4-850-U10
 [LUMINAIRE] LED LUMINAIRE
 [BALLASTCAT] OSRAM OPTOTRONIC OTI85/120-277/2A3 DIM L HB
 [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	10221
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	77
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.83 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	45853	39217	38290
55	44850	37787	39931
65	42647	39357	41413
75	38125	40449	41379
85	32829	40040	38045

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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	3526	3526	3526	3526	3526	3526	3526	3526	3526	3526
5	3524	3525	3522	3515	3508	3506	3515	3524	3527	3527
10	3489	3492	3490	3479	3472	3470	3478	3485	3485	3482
15	3426	3426	3423	3413	3403	3398	3399	3397	3390	3382
20	3329	3327	3324	3311	3296	3282	3277	3277	3276	3276
25	3198	3198	3193	3171	3148	3135	3140	3152	3169	3188
30	3040	3039	3031	3004	2979	2978	3001	3030	3052	3058
35	2858	2856	2844	2812	2799	2820	2854	2869	2831	2722
40	2654	2651	2630	2602	2609	2645	2650	2552	2409	2327
45	2425	2420	2390	2378	2403	2407	2288	2152	2099	2074
50	2178	2170	2142	2147	2162	2049	1923	1876	1846	1828
55	1924	1909	1885	1901	1821	1690	1651	1621	1615	1621
60	1645	1629	1617	1594	1459	1415	1393	1396	1415	1434
65	1348	1331	1325	1232	1174	1158	1166	1191	1218	1244
70	1039	1025	993	921	911	930	957	985	1015	1033
75	738	726	666	652	679	711	742	756	770	783
80	458	433	409	434	469	486	501	511	518	522
85	214	196	216	235	245	252	257	260	261	261
90	40	44	45	43	40	37	33	30	27	25
95	19	17	17	17	17	17	17	16	16	16
100	22	20	17	17	16	16	16	15	15	15
105	25	32	18	18	16	15	15	15	15	14
110	28	39	26	18	18	16	14	14	13	13
115	33	42	55	19	18	18	18	13	12	11
120	39	46	67	45	19	18	18	18	18	11
125	44	49	71	89	30	19	19	18	18	18
130	48	54	74	96	93	29	21	20	19	19
135	55	59	78	98	116	99	32	24	22	22
140	62	62	82	100	119	134	112	49	28	26
145	64	64	85	100	118	135	147	139	88	43
150	68	63	85	100	114	130	145	157	162	143
155	70	62	83	96	107	120	133	146	158	168
160	71	62	76	93	103	111	120	129	139	149
165	75	63	71	89	98	108	114	119	123	128
170	78	71	66	72	84	96	102	108	113	116
175	82	80	72	67	68	71	74	81	88	94
180	73	73	73	73	73	73	73	73	73	73

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	3526	3526	3526	3526	3526	3526	3526	3526	3526
5	3524	3520	3519	3524	3530	3527	3520	3517	3512
10	3473	3466	3462	3462	3463	3458	3451	3448	3441
15	3373	3367	3365	3370	3374	3370	3365	3365	3357
20	3281	3289	3300	3315	3327	3329	3326	3327	3320
25	3203	3211	3216	3218	3207	3186	3166	3149	3137
30	3031	2968	2884	2807	2749	2708	2681	2668	2659
35	2599	2521	2484	2465	2451	2440	2431	2424	2417
40	2294	2275	2258	2243	2228	2217	2209	2204	2197
45	2053	2042	2036	2036	2033	2029	2028	2029	2025
50	1832	1841	1855	1863	1867	1872	1875	1877	1874
55	1643	1665	1683	1695	1702	1706	1711	1714	1713
60	1458	1480	1498	1512	1525	1534	1540	1544	1542

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CANDELA TABULATION - (Cont.)

65	1271	1292	1304	1308	1309	1310	1313	1314	1309
70	1039	1048	1056	1063	1066	1070	1074	1073	1067
75	791	796	800	802	805	808	809	805	801
80	526	529	530	532	534	535	533	530	528
85	260	259	259	257	255	253	251	249	248
90	23	21	20	19	18	17	17	16	16
95	16	15	15	15	15	15	15	15	15
100	15	14	14	14	14	14	13	13	13
105	14	13	13	13	13	13	13	13	12
110	13	12	12	12	12	12	11	11	11
115	11	11	11	11	11	10	11	11	11
120	10	10	10	10	9	9	9	9	9
125	19	14	9	9	9	9	9	9	9
130	19	20	20	20	20	19	16	13	13
135	22	21	22	22	22	22	22	22	23
140	26	25	25	25	25	25	25	25	25
145	32	30	30	29	29	29	29	29	29
150	102	64	43	36	35	35	34	34	34
155	173	172	156	133	111	95	82	75	73
160	160	169	175	180	182	184	184	184	186
165	135	142	150	158	163	165	167	168	169
170	118	119	122	126	134	138	140	141	141
175	97	99	99	98	101	104	112	113	116
180	73	73	73	73	73	73	73	73	73

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1292.61	N.A.	12.60
0-30	2743.99	N.A.	26.80
0-40	4411.32	N.A.	43.20
0-60	7637.57	N.A.	74.70
0-80	9690.45	N.A.	94.80
0-90	9969.42	N.A.	97.50
10-90	9635.07	N.A.	94.30
20-40	3118.71	N.A.	30.50
20-50	4800.52	N.A.	47.00
40-70	4477.33	N.A.	43.80
60-80	2052.88	N.A.	20.10
70-80	801.80	N.A.	7.80
80-90	278.97	N.A.	2.70
90-110	37.05	N.A.	0.40
90-120	54.62	N.A.	0.50
90-130	77.59	N.A.	0.80
90-150	153.02	N.A.	1.50
90-180	251.22	N.A.	2.50
110-180	214.17	N.A.	2.10
0-180	10220.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	334.35
10-20	958.26
20-30	1451.38
30-40	1667.33
40-50	1681.81
50-60	1544.43
60-70	1251.08
70-80	801.80
80-90	278.97
90-100	20.54
100-110	16.51
110-120	17.56
120-130	22.98
130-140	33.04
140-150	42.39
150-160	53.04
160-170	36.06
170-180	9.09

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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	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83	81
2	98	89	82	76	95	87	81	75	83	78	73	79	75	71	76	72	69	67
3	89	78	70	63	86	76	69	62	73	66	61	70	64	60	67	62	58	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	54	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	43	41
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	49	43	38	36
7	64	51	42	36	62	50	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	38	32	58	45	37	32	44	36	31	42	36	31	41	35	30	29
9	56	42	34	29	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	26	36	30	25	35	29	25	23

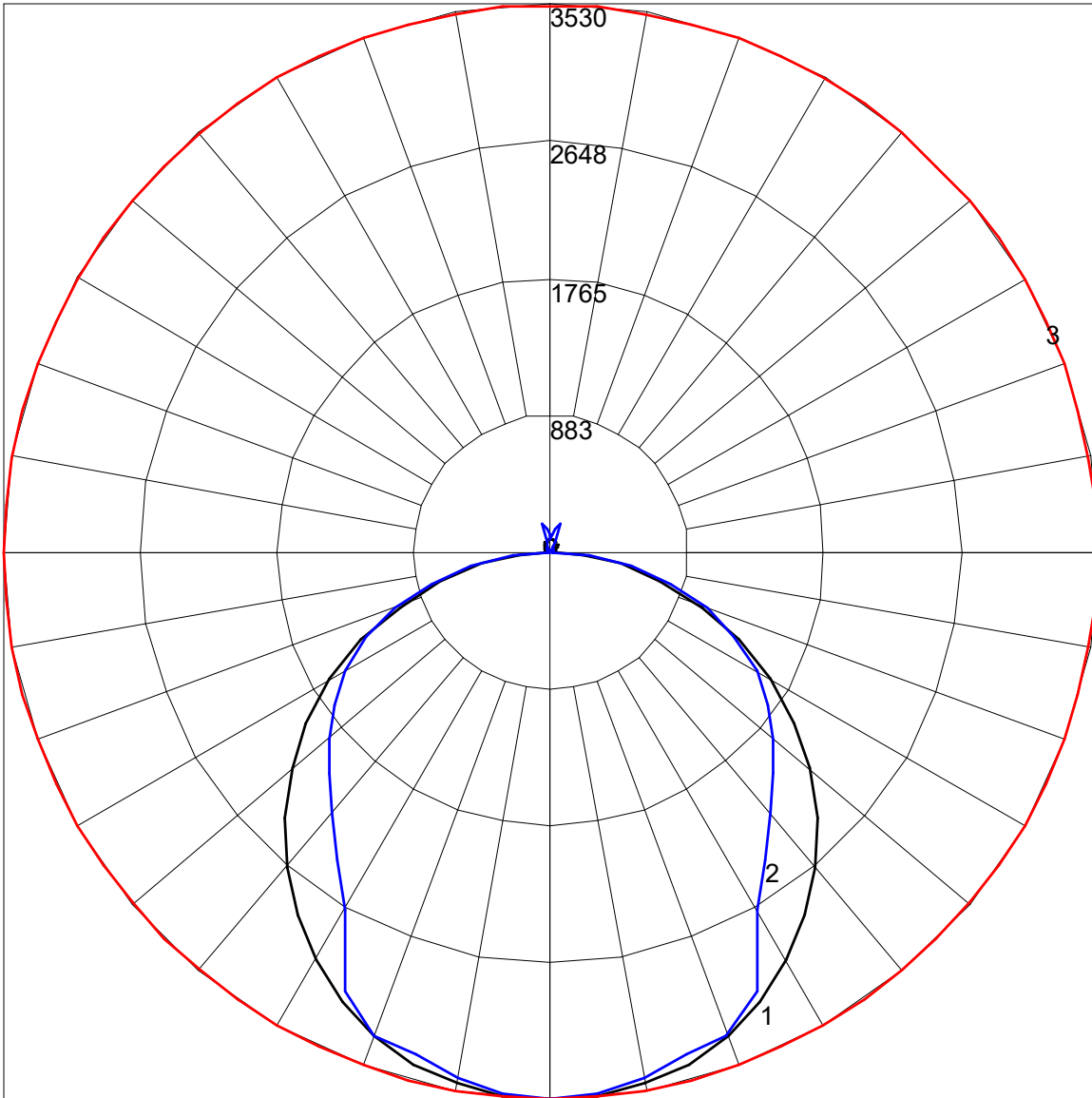
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UGR TABLE - CORRECTED

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	25.0	26.6	25.4	27.0	27.4	24.8	26.4	25.2	26.8	27.1
	3H	26.9	28.4	27.3	28.7	29.2	27.0	28.5	27.4	28.8	29.3
	4H	27.6	29.0	28.0	29.4	29.8	27.9	29.3	28.3	29.7	30.1
	6H	28.2	29.4	28.6	29.9	30.3	28.6	29.9	29.1	30.3	30.8
	8H	28.4	29.6	28.8	30.0	30.5	28.9	30.1	29.3	30.5	31.0
	12H	28.5	29.7	29.0	30.1	30.6	29.1	30.2	29.5	30.7	31.1
4H	2H	25.6	27.0	26.1	27.4	27.8	25.5	26.8	25.9	27.2	27.7
	3H	27.8	28.9	28.2	29.4	29.8	27.9	29.1	28.4	29.5	30.0
	4H	28.6	29.7	29.1	30.1	30.6	29.0	30.0	29.4	30.5	31.0
	6H	29.3	30.2	29.8	30.7	31.2	29.9	30.8	30.3	31.3	31.8
	8H	29.5	30.4	30.0	30.9	31.4	30.2	31.0	30.7	31.5	32.0
	12H	29.7	30.5	30.2	31.0	31.6	30.4	31.2	30.9	31.7	32.2
8H	4H	29.0	29.9	29.5	30.4	30.9	29.4	30.2	29.8	30.7	31.2
	6H	29.9	30.6	30.4	31.2	31.7	30.4	31.1	30.9	31.6	32.2
	8H	30.3	30.9	30.8	31.5	32.0	30.8	31.5	31.4	32.0	32.5
	12H	30.6	31.1	31.1	31.7	32.3	31.2	31.7	31.7	32.3	32.9
12H	4H	29.1	29.9	29.6	30.4	30.9	29.4	30.2	29.9	30.7	31.2
	6H	30.0	30.7	30.6	31.2	31.8	30.5	31.2	31.0	31.7	32.2
	8H	30.5	31.0	31.0	31.6	32.2	31.0	31.6	31.5	32.1	32.7

Maximum UGR = 32.9

POLAR GRAPH



Maximum Candela = 3530 Located At Horizontal Angle = 70, Vertical Angle = 5

- # 1 - Vertical Plane Through Horizontal Angles (0 - 180)
- # 2 - Vertical Plane Through Horizontal Angles (90 - 270)
- # 3 - Horizontal Cone Through Vertical Angle (0)