



IES INDOOR REPORT PHOTOMETRIC FILENAME : L40U-SILVER LOUVER L071802904.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L071802904
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUEDATE] 8/1/2018
[MANUFAC] Kino Flo Lighting Systems
[LUMCAT] IMG-L40U
[LUMINAIRE] Image L40 with Silver Louver
[BALLASTCAT] Kino Flo Custom Driver
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
[TEST CONDITION] Fixture is tested at 6500K, 100% dimming, and 0 G/M conditions.
[INPUT] 120VAC, 178.68W
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7801
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	44
Total Luminaire Watts	178.68
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.50
Spacing Criteria (90-270)	1.56
Spacing Criteria (Diagonal)	1.52
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.10 ft
Luminous Width (90-270)	3.96 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4392	6414	7328
55	710	1528	202
65	251	146	111
75	544	258	134
85	1190	623	312

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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	1966	1966	1966	1966	1966	1966	1966	1966	1966	1966
1	3080	3075	3050	3002	2945	2876	2797	2709	2612	2502
2	4505	4493	4453	4378	4284	4162	4011	3833	3634	3404
3	5564	5553	5524	5464	5387	5278	5144	4952	4726	4455
4	5966	5960	5950	5923	5890	5840	5768	5661	5502	5274
5	6064	6067	6063	6049	6034	6022	6000	5961	5891	5766
6	6085	6088	6085	6078	6074	6078	6070	6051	6019	5960
7	6108	6108	6103	6094	6090	6088	6079	6074	6060	6031
8	6094	6096	6096	6097	6099	6097	6095	6078	6059	6041
9	6030	6046	6043	6041	6034	6023	6024	6028	6023	5996
10	5805	5819	5855	5909	5959	5990	6008	6024	6026	6011
11	5003	5050	5190	5385	5601	5766	5866	5919	5957	5980
12	3553	3621	3833	4172	4637	5113	5497	5720	5840	5925
13	2339	2384	2528	2798	3234	3878	4616	5248	5619	5807
14	1944	1946	1959	2025	2238	2638	3324	4287	5156	5608
15	2312	2282	2188	2086	1999	2040	2332	3061	4200	5158
16	3371	3290	3060	2740	2410	2154	2042	2291	3121	4371
17	4838	4752	4493	4049	3395	2753	2292	2090	2375	3381
18	5779	5738	5603	5304	4706	3897	3024	2389	2137	2584
19	6043	6030	5989	5876	5621	5098	4205	3093	2356	2231
20	6033	6023	6005	5970	5876	5696	5208	4101	2910	2263
21	5892	5902	5908	5885	5859	5833	5711	5080	3751	2600
22	5544	5581	5666	5708	5749	5789	5794	5588	4783	3287
23	4622	4720	4956	5233	5475	5637	5701	5661	5312	4119
24	3642	3705	3915	4286	4795	5316	5527	5574	5476	4779
25	2726	2787	2997	3374	3864	4553	5149	5381	5436	5183
26	2173	2192	2292	2546	3052	3676	4493	5078	5276	5233
27	2246	2231	2197	2206	2362	2910	3711	4559	5025	5139
28	2574	2533	2422	2322	2257	2414	3045	3813	4609	4965
29	3268	3173	2891	2617	2430	2300	2427	3147	4085	4698
30	4170	4102	3777	3264	2788	2427	2290	2604	3419	4368
31	4866	4827	4605	4146	3510	2797	2410	2304	2872	3936
32	4854	4885	4866	4714	4253	3454	2675	2322	2400	3341
33	3985	4047	4264	4585	4655	4151	3184	2474	2288	2818
34	3628	3630	3633	3780	4216	4358	3744	2789	2311	2452
35	3383	3419	3476	3497	3572	4079	4060	3353	2460	2226
36	2401	2491	2757	3182	3358	3444	3939	3711	2805	2210
37	1802	1816	1922	2324	2951	3203	3341	3816	3159	2315
38	1966	1911	1814	1807	2132	2815	3033	3448	3530	2505
39	2592	2493	2248	1949	1770	2065	2760	3021	3495	2824
40	2540	2585	2625	2473	2014	1723	2135	2769	3113	3025
41	2122	2101	2108	2311	2320	1833	1687	2347	2734	3024
42	2691	2610	2340	1988	2072	2145	1694	1845	2475	2835
43	2836	2804	2681	2396	1911	1967	1944	1558	2110	2495
44	2371	2442	2537	2558	2298	1789	1893	1568	1625	2160
45	1258	1323	1615	2139	2288	2019	1570	1654	1338	1837
50	951	904	786	746	720	709	760	1076	1183	995
55	165	167	178	204	247	324	580	314	310	355
60	50	45	45	41	42	49	49	53	64	96
65	43	43	44	47	45	43	42	34	27	25
70	56	53	50	47	47	44	36	30	28	27
75	57	55	52	53	52	53	40	38	31	27
80	52	50	49	46	45	41	42	44	35	29
85	42	41	40	36	35	31	28	25	23	22

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90	22	23	22	22	21	21	19	18	17	16
95	38	38	39	38	36	35	34	34	34	32
100	43	42	42	42	41	39	38	37	37	38
105	50	48	48	49	50	51	52	54	53	51
110	80	77	75	71	70	70	68	66	64	62
115	95	93	90	86	83	81	79	77	72	68
120	105	104	103	96	94	90	85	83	76	74
125	111	108	105	101	96	92	90	82	73	67
130	112	109	105	100	94	87	83	79	82	81
135	102	101	98	96	94	96	97	94	82	64
140	118	117	115	112	104	93	82	70	62	59
145	92	90	87	83	78	71	68	67	62	55
150	79	78	78	76	75	70	65	59	52	50
155	64	63	60	58	55	54	53	54	53	50
160	56	56	56	54	53	51	46	41	38	36
165	36	36	35	34	34	34	33	32	31	31
170	30	30	31	31	31	31	31	31	30	30
175	35	34	34	34	34	34	34	34	34	34
180	32	32	32	32	32	32	32	32	32	32

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	1966	1966	1966	1966	1966	1966	1966	1966	1966
1	2381	2289	2186	2095	2010	1946	1895	1868	1857
2	3160	2926	2690	2458	2253	2090	1966	1894	1869
3	4128	3765	3368	2969	2603	2303	2072	1918	1868
4	4959	4601	4117	3599	3038	2572	2186	1951	1870
5	5541	5235	4793	4214	3540	2899	2358	2010	1890
6	5850	5659	5301	4745	4012	3232	2544	2047	1883
7	5963	5861	5641	5206	4469	3595	2704	2094	1877
8	6009	5942	5816	5517	4899	4003	2957	2187	1902
9	5970	5915	5885	5788	5447	4631	3436	2325	1874
10	5992	5976	5947	5843	5481	4662	3447	2339	1913
11	5987	5976	5956	5896	5667	4921	3654	2400	1900
12	5967	5969	5967	5945	5811	5221	3963	2521	1883
13	5903	5969	5971	5940	5829	5423	4185	2620	1930
14	5807	5920	5930	5920	5854	5498	4338	2678	1913
15	5607	5800	5888	5886	5839	5582	4582	2826	1906
16	5280	5657	5804	5817	5806	5645	4737	2938	1969
17	4678	5411	5656	5767	5779	5638	4823	2989	1940
18	3859	5114	5515	5676	5719	5646	4982	3131	1929
19	3018	4509	5297	5552	5640	5593	5048	3234	1993
20	2447	3863	5043	5387	5529	5520	5083	3348	1992
21	2257	3173	4661	5209	5405	5460	5106	3338	1939
22	2383	2622	4122	5012	5298	5405	5178	3508	2009
23	2722	2336	3503	4803	5185	5332	5172	3517	2017
24	3228	2326	2971	4515	5033	5263	5183	3622	1969
25	3834	2581	2575	4148	4908	5204	5206	3696	2025
26	4493	2948	2395	3749	4785	5116	5154	3739	2053
27	4832	3494	2420	3336	4594	4968	5071	3857	2066
28	4953	3934	2504	2868	4344	4838	5010	3856	1999
29	4899	4401	2843	2602	4086	4685	4891	3843	2048
30	4738	4671	3216	2501	3733	4517	4752	3816	2126
31	4563	4680	3591	2458	3370	4343	4661	3869	2053
32	4274	4557	3902	2482	3073	4186	4535	3834	2099

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33	3896	4356	4153	2689	2822	3999	4406	3799	2151
34	3443	4142	4164	2963	2619	3792	4293	3861	2046
35	3066	3865	4086	3195	2438	3611	4189	3790	2071
36	2549	3573	3924	3410	2387	3390	4035	3721	2088
37	2320	3130	3757	3515	2375	3120	3905	3763	2127
38	2108	2781	3544	3561	2458	2879	3726	3610	1998
39	2131	2365	3304	3524	2521	2712	3539	3579	2067
40	2232	2174	2982	3399	2638	2497	3358	3436	2093
41	2337	2004	2697	3173	2719	2394	3209	3306	1969
42	2571	1947	2409	2971	2735	2207	3011	3254	2000
43	2660	1936	2063	2717	2753	2109	2822	3107	2015
44	2521	1946	1861	2465	2632	2015	2641	2923	1861
45	2268	2049	1689	2206	2491	1952	2406	2716	2099
50	863	1168	1169	930	1088	963	853	896	680
55	437	269	228	148	95	74	53	48	47
60	35	34	28	25	27	23	22	21	22
65	27	21	17	16	17	17	18	18	19
70	22	17	16	14	13	15	16	17	17
75	22	18	15	11	10	10	12	13	14
80	23	22	16	12	10	9	10	10	11
85	19	17	15	13	11	10	9	10	11
90	15	14	13	12	11	10	9	8	9
95	31	30	27	23	20	17	15	12	12
100	38	37	35	31	27	24	20	16	16
105	50	47	43	38	33	28	21	18	20
110	59	55	51	42	39	30	24	21	23
115	64	61	51	50	38	30	26	24	25
120	63	57	59	41	33	27	23	22	23
125	68	66	46	36	29	24	19	20	22
130	67	51	43	35	27	22	19	21	22
135	55	50	42	34	31	23	21	24	25
140	54	45	38	37	28	24	23	26	25
145	47	45	42	33	29	26	26	30	29
150	50	46	37	34	31	30	31	34	32
155	42	37	34	32	31	31	33	34	32
160	34	32	31	30	30	31	33	33	32
165	31	30	30	30	31	33	33	32	31
170	30	30	31	33	34	34	33	32	31
175	34	34	33	33	32	32	32	31	31
180	32	32	32	32	32	32	32	32	32

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	3598.18	N.A.	46.10
0-40	5631.22	N.A.	72.20
0-60	7396.00	N.A.	94.80
0-90	7484.34	N.A.	95.90
90-120	136.92	N.A.	1.80
90-130	196.03	N.A.	2.50
90-150	282.18	N.A.	3.60
90-180	316.57	N.A.	4.10
0-180	7800.91	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	475.58
10-20	1249.07
20-30	1873.53
30-40	2033.04
40-50	1451.43
50-60	313.36
60-70	32.03
70-80	31.56
80-90	24.75
90-100	29.38
100-110	46.17
110-120	61.37
120-130	59.11
130-140	50.17
140-150	35.98
150-160	21.51
160-170	9.79
170-180	3.09

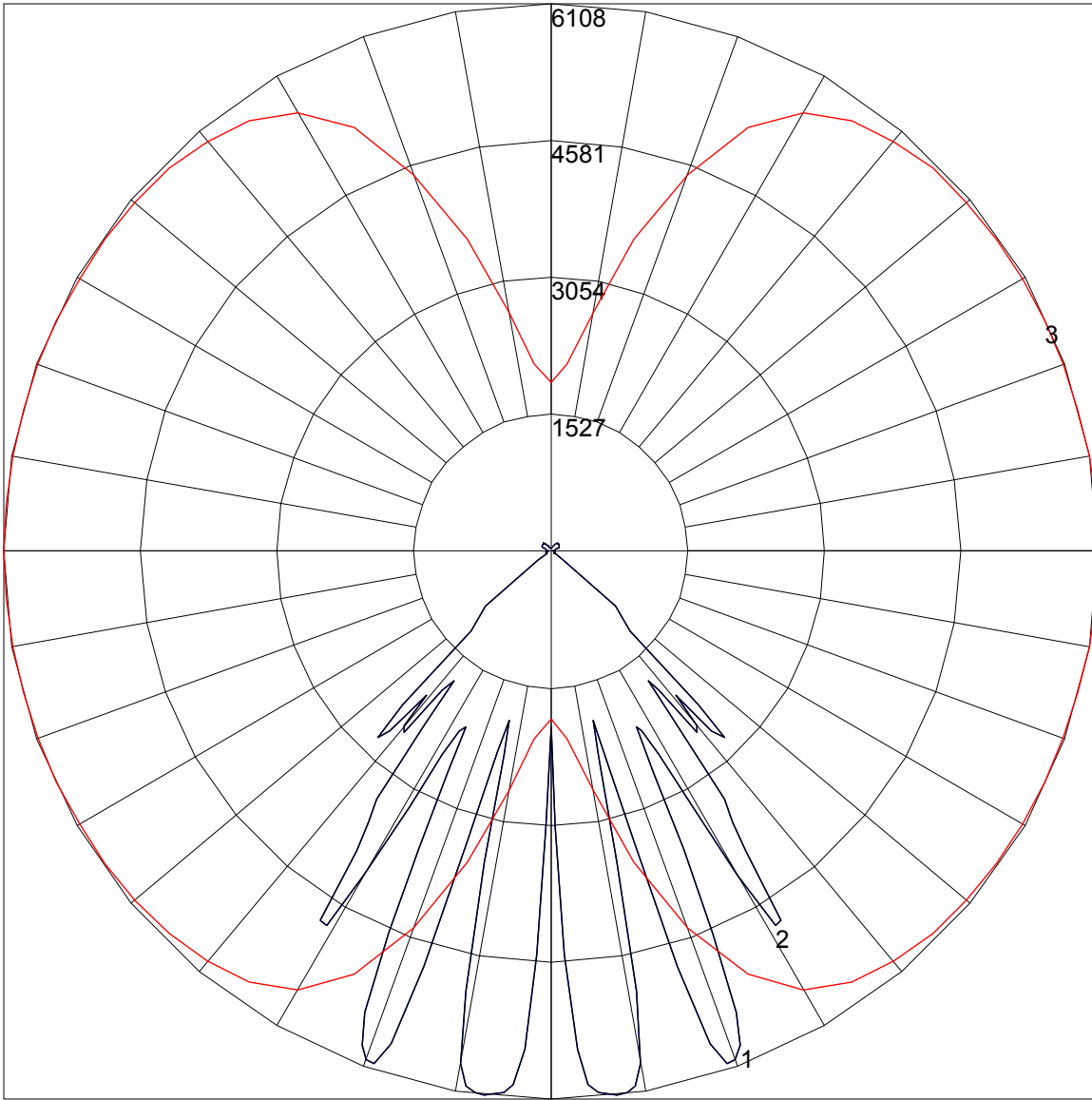
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	10
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	111	108	105	103	108	106	103	101	101	99	97	96	95	93	92	91	90	88
2	104	99	94	90	102	97	92	89	93	89	86	89	86	84	86	83	81	79
3	98	90	84	80	95	88	83	79	85	81	77	82	78	75	79	76	73	72
4	92	83	76	71	89	81	75	70	78	73	69	76	71	68	73	70	67	65
5	86	76	69	64	84	75	68	63	72	67	62	70	65	61	68	64	60	59
6	80	70	63	58	78	69	62	57	67	61	56	65	60	56	63	58	55	53
7	75	64	57	52	73	63	57	52	62	56	51	60	55	51	58	54	50	49
8	71	60	52	48	69	59	52	47	57	51	47	56	50	47	54	50	46	44
9	66	55	48	44	65	55	48	44	53	47	43	52	47	43	51	46	42	41
10	63	51	45	40	61	51	44	40	50	44	40	49	43	39	47	43	39	38

POLAR GRAPH



Maximum Candela = 6108 Located At Horizontal Angle = 0, Vertical Angle = 7
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)
3 - Horizontal Cone Through Vertical Angle (7) (Through Max. Cd.)