



IES INDOOR REPORT
PHOTOMETRIC FILENAME : L80U-SILVER LOUVER L071802902.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L071802902
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUEDATE] 8/1/2018
[MANUFAC] Kino Flo Lighting Systems
[LUMCAT] IMG-L80U
[LUMINAIRE] Image L80 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, 356.17W
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	15178
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	43
Total Luminaire Watts	356.17
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.02
Spacing Criteria (90-270)	1.14
Spacing Criteria (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.88 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	8498	8984	6860
55	355	1451	96
65	130	55	38
75	335	140	61
85	812	514	348

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	6708	6708	6708	6708	6708	6708	6708	6708	6708	6708
1	7257	7258	7244	7225	7193	7157	7111	7064	7009	6946
2	8208	8202	8173	8121	8046	7948	7820	7687	7542	7392
3	9369	9360	9321	9245	9133	8995	8805	8601	8368	8129
4	10432	10417	10373	10294	10176	10024	9816	9576	9287	8936
5	11260	11247	11208	11127	11013	10852	10654	10409	10117	9783
6	11742	11738	11720	11676	11608	11502	11328	11093	10813	10468
7	11859	11862	11861	11845	11819	11770	11690	11562	11346	11019
8	11840	11841	11841	11839	11832	11808	11793	11730	11599	11392
9	11615	11366	11450	11551	11651	11724	11762	11752	11748	11763
10	10929	10966	11060	11202	11365	11518	11606	11615	11604	11562
11	9731	9806	9971	10233	10569	10895	11171	11382	11491	11512
12	8191	8260	8453	8777	9280	9823	10331	10810	11177	11388
13	6775	6838	7003	7292	7785	8395	9132	9897	10585	11131
14	5787	5812	5899	6087	6494	7040	7766	8698	9703	10588
15	5591	5568	5519	5477	5594	5950	6583	7460	8633	9767
16	6407	6334	6137	5827	5511	5438	5728	6421	7407	8664
17	7681	7592	7344	6886	6322	5772	5420	5658	6423	7494
18	9017	8917	8620	8130	7463	6736	5969	5551	5812	6712
19	10362	10257	9975	9453	8738	7916	7045	6119	5674	6087
20	11278	11209	10999	10579	9915	9031	8095	7050	5973	5716
21	11692	11649	11532	11262	10754	10086	9159	8006	6639	5714
22	11493	11499	11487	11390	11200	10872	10138	8910	7515	6203
23	10465	10544	10754	10953	11045	11123	10735	9777	8448	6915
24	8851	8964	9321	9818	10320	10795	10842	10386	9296	7673
25	7340	7456	7778	8346	9073	9971	10487	10455	9827	8417
26	5899	6009	6353	6962	7687	8675	9676	10191	10029	9010
27	4624	4691	4956	5547	6439	7386	8438	9544	9870	9377
28	4617	4567	4479	4566	5237	6306	7345	8548	9430	9467
29	5535	5411	5085	4767	4654	5211	6353	7505	8773	9292
30	6745	6562	6106	5577	5060	4740	5336	6549	7937	8939
31	7892	7725	7208	6614	5939	5149	4768	5601	7015	8379
32	8892	8724	8203	7533	6824	5878	4958	4861	6183	7677
33	9615	9532	9128	8460	7618	6614	5518	4739	5161	6755
34	9072	9143	9223	9074	8407	7327	6186	5024	4627	5976
35	7720	7855	8200	8635	8676	7944	6736	5489	4590	5223
36	6095	6239	6681	7408	8032	8258	7375	6131	4980	4567
37	4773	4877	5245	5972	6783	7620	7761	6746	5511	4429
38	4121	4131	4266	4731	5461	6488	7475	7167	5910	4622
39	4359	4253	4097	4087	4436	5227	6487	7185	6307	4847
40	5076	4884	4502	4180	3956	4239	5280	6464	6607	5239
41	5697	5527	5104	4728	4155	3846	4324	5521	6419	5582
42	6028	5915	5650	5249	4620	3946	3708	4488	5719	5679
43	5855	5826	5724	5476	4992	4216	3639	3730	4766	5601
44	5180	5232	5346	5287	5096	4548	3855	3376	3873	5127
45	4160	4213	4410	4642	4782	4646	4092	3291	3280	4398
50	1910	1876	1830	1768	1681	1608	1835	2406	2491	2005
55	141	143	150	158	227	397	544	556	483	576
60	33	33	37	38	42	33	21	27	47	61
65	38	38	39	40	42	40	25	23	26	16
70	48	45	45	44	41	40	34	25	26	24
75	60	56	55	53	48	45	41	33	28	25
80	73	70	69	64	64	57	50	43	35	32
85	49	48	47	45	43	41	38	35	34	31

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CANDELA TABULATION - (Cont.)

90	29	29	29	29	28	27	26	25	25	24
95	44	44	45	45	45	45	45	44	42	40
100	51	50	49	47	46	45	45	44	44	43
105	53	52	51	50	50	51	52	53	53	50
110	65	65	63	62	60	60	58	58	57	58
115	72	72	71	68	68	67	66	62	61	60
120	78	78	77	75	74	71	69	65	62	57
125	81	81	79	77	73	72	68	62	59	58
130	79	78	76	73	70	68	68	67	61	54
135	82	83	82	80	77	72	67	63	60	59
140	78	78	76	74	73	71	70	67	63	56
145	80	79	79	76	74	71	68	65	58	54
150	71	70	70	68	66	64	61	59	54	51
155	58	56	55	53	51	50	48	47	46	45
160	43	43	42	42	42	42	42	42	40	39
165	40	40	39	39	39	38	38	38	38	37
170	39	39	39	38	38	38	38	38	37	37
175	43	43	43	42	42	42	42	41	41	41
180	44	44	44	44	44	44	44	44	44	44

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	6708	6708	6708	6708	6708	6708	6708	6708	6708
1	6887	6822	6773	6730	6689	6652	6617	6602	6601
2	7240	7097	6968	6855	6764	6688	6631	6594	6592
3	7848	7573	7306	7071	6885	6745	6644	6563	6541
4	8583	8207	7807	7407	7073	6820	6639	6554	6511
5	9346	8900	8399	7849	7339	6930	6641	6515	6483
6	10053	9566	8992	8345	7681	7109	6689	6470	6400
7	10583	10097	9491	8804	8055	7320	6752	6459	6354
8	11035	10576	10006	9310	8494	7594	6811	6447	6331
9	11769	11734	11596	11176	10305	9126	7829	6990	6384
10	11479	11254	10819	10175	9313	8260	7192	6558	6399
11	11495	11439	11148	10531	9674	8526	7350	6570	6323
12	11507	11535	11381	10871	10040	8789	7510	6609	6376
13	11435	11499	11432	11095	10322	9133	7742	6657	6296
14	11149	11376	11402	11198	10500	9386	7937	6693	6317
15	10650	11176	11336	11274	10700	9555	8050	6692	6261
16	9925	10856	11197	11228	10820	9836	8265	6720	6136
17	9041	10256	10943	11120	10937	10009	8451	6718	6101
18	8030	9497	10596	11005	10903	10087	8598	6692	5938
19	7149	8735	10179	10789	10796	10155	8748	6675	5794
20	6408	7892	9529	10431	10651	10208	8840	6757	5798
21	5916	7097	8771	10057	10509	10262	8928	6772	5728
22	5702	6440	8136	9701	10346	10229	9112	6887	5577
23	5681	5873	7282	9109	10084	10180	9167	6811	5503
24	6077	5592	6707	8613	9870	10194	9270	6951	5579
25	6708	5553	6258	7962	9608	10112	9279	6969	5441
26	7375	5761	5830	7382	9188	9930	9334	7148	5373
27	8040	6290	5614	6853	8785	9773	9337	7163	5346
28	8495	6732	5627	6359	8253	9508	9299	7190	5150
29	8814	7240	5693	6007	7588	9234	9122	7105	5161
30	8991	7739	6038	5773	7190	8846	9062	7228	4979
31	8889	8012	6337	5587	6759	8395	8954	7198	4962
32	8632	8170	6635	5417	6301	8001	8733	7110	4760

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33	8201	8209	6846	5484	6006	7567	8590	7277	4610
34	7560	8077	7057	5502	5657	7250	8381	7068	4627
35	6818	7804	7231	5654	5475	6843	8144	7114	4485
36	6096	7400	7213	5868	5158	6491	7922	7057	4330
37	5315	6810	7193	5973	4989	6158	7566	6967	4378
38	4647	6160	7028	6145	5010	5788	7172	6850	4264
39	4218	5546	6747	6203	4950	5434	6858	6758	4021
40	4129	4843	6292	6173	4912	5092	6482	6586	3998
41	4288	4225	5693	5992	4930	4848	6060	6437	3908
42	4511	3882	5097	5830	4897	4561	5819	6356	3598
43	4695	3793	4502	5578	4913	4290	5383	6051	3552
44	4819	3768	3955	5134	4867	4133	5001	5813	3491
45	4717	3834	3528	4571	4734	3827	4691	5568	3358
50	1897	2509	2176	1950	2125	1827	1731	1743	1270
55	651	382	335	212	106	75	49	41	38
60	22	13	11	10	10	10	10	10	10
65	15	10	9	8	8	8	9	11	11
70	19	17	11	9	8	9	9	11	12
75	21	18	16	12	9	8	9	11	11
80	26	20	17	15	13	11	12	13	15
85	29	26	24	21	18	17	17	17	21
90	22	21	19	18	17	15	14	13	13
95	36	33	31	28	27	26	25	25	25
100	42	41	40	36	36	32	32	31	31
105	49	48	46	41	40	34	31	31	34
110	55	53	49	44	38	36	32	31	33
115	57	54	52	47	41	35	35	35	35
120	53	50	46	43	35	32	32	32	33
125	51	45	43	36	29	25	24	27	28
130	51	48	40	33	27	25	23	25	26
135	54	47	40	34	32	29	27	27	27
140	50	45	39	37	35	31	31	31	32
145	49	45	44	41	38	35	35	36	37
150	48	46	44	42	39	38	39	39	40
155	43	41	40	37	35	35	35	36	35
160	38	37	36	35	36	36	36	36	36
165	37	36	35	36	36	36	37	37	37
170	37	36	37	37	37	37	38	38	37
175	41	41	41	41	41	41	41	41	41
180	44	44	44	44	44	44	44	44	44

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	7099.38	N.A.	46.80
0-40	11164.42	N.A.	73.60
0-60	14789.62	N.A.	97.40
0-90	14877.64	N.A.	98.00
90-120	140.50	N.A.	0.90
90-130	188.79	N.A.	1.20
90-150	265.13	N.A.	1.70
90-180	300.83	N.A.	2.00
0-180	15178.47	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	928.55
10-20	2450.22
20-30	3720.61
30-40	4065.04
40-50	3067.02
50-60	558.18
60-70	23.25
70-80	31.61
80-90	33.16
90-100	37.36
100-110	48.79
110-120	54.34
120-130	48.29
130-140	41.89
140-150	34.45
150-160	21.08
160-170	10.76
170-180	3.85

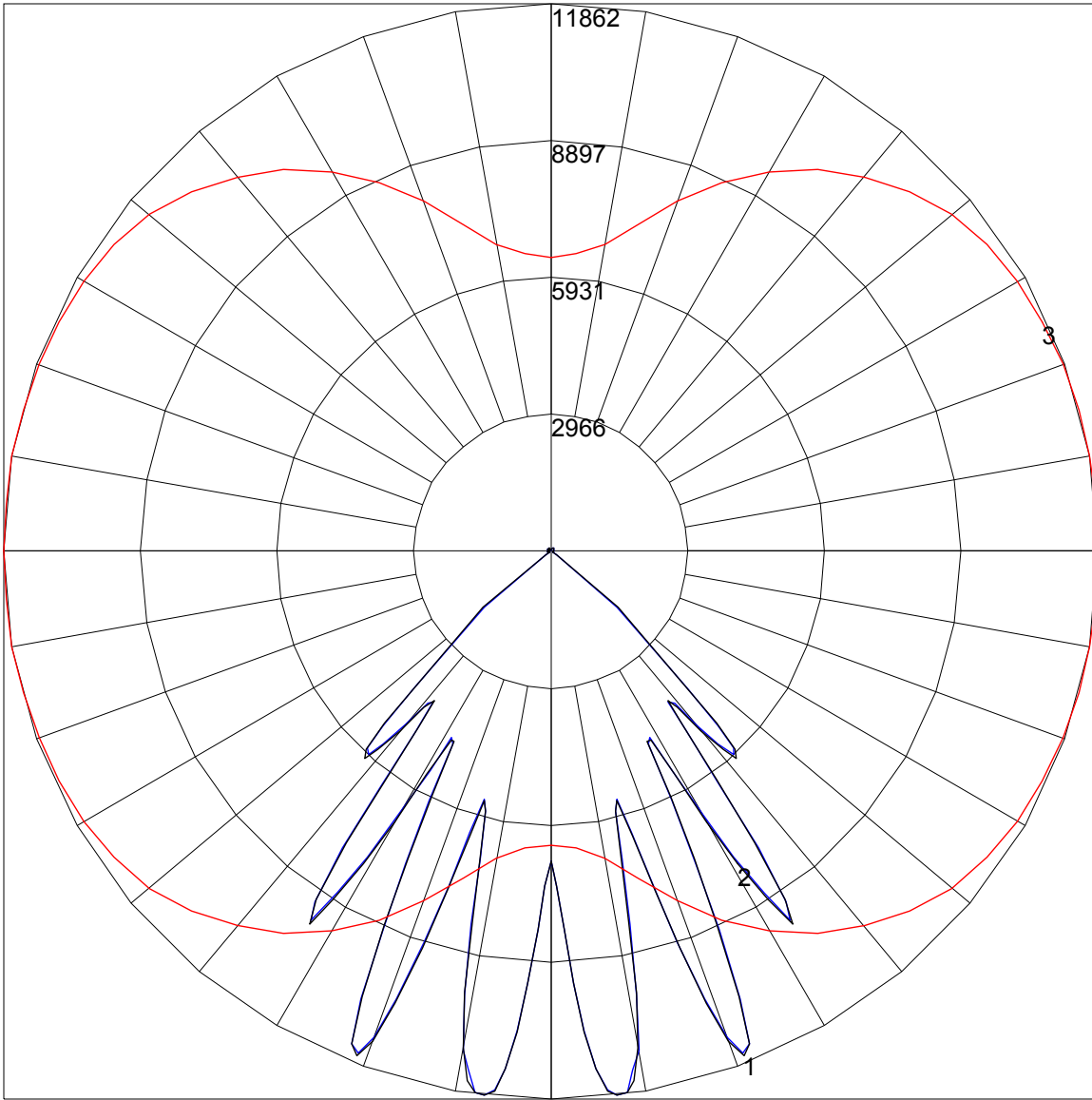
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	112	109	106	103	109	106	104	101	102	100	98	98	96	95	94	93	92	90
2	105	99	95	91	103	98	93	90	94	90	87	91	88	85	87	85	83	81
3	99	91	85	80	96	89	84	80	86	82	78	84	80	77	81	78	75	73
4	92	83	77	72	90	82	76	71	79	74	70	77	73	69	75	71	68	66
5	86	76	70	64	84	75	69	64	73	68	63	71	66	63	69	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	64	60	56	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	45
9	67	56	49	44	66	55	49	44	54	48	44	53	47	43	52	47	43	42
10	63	52	45	41	62	51	45	41	50	44	40	49	44	40	48	43	40	38

POLAR GRAPH



Maximum Candela = 11862 Located At Horizontal Angle = 5, Vertical Angle = 7
1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)
3 - Horizontal Cone Through Vertical Angle (7) (Through Max. Cd.)