



KINO FLO® LIGHTING SYSTEMS

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L40U-OPEN L071802903.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L071802903
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUEDATE] 8/1/2018
[MANUFAC] Kino Flo Lighting Systems
[LUMCAT] IMG-L40U
[LUMINAIRE] Image L40 open face test
[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, 177.57W
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	14382
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	177.57
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.24
Spacing Criteria (90-270)	1.30
Spacing Criteria (Diagonal)	1.36
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	11923	12569	13323
55	10089	10877	12473
65	6659	7980	10462
75	2137	3234	6534
85	1133	1416	1615

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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	5607	5607	5607	5607	5607	5607	5607	5607	5607	5607
5	5623	5623	5622	5617	5611	5608	5609	5605	5601	5599
10	5550	5554	5549	5545	5540	5539	5537	5535	5532	5530
15	5466	5459	5452	5445	5438	5430	5428	5424	5418	5416
20	5316	5317	5305	5292	5279	5275	5275	5273	5273	5264
25	5071	5067	5068	5077	5085	5088	5088	5084	5083	5080
30	4612	4612	4598	4587	4590	4625	4706	4784	4838	4849
35	4292	4293	4284	4291	4306	4309	4308	4311	4337	4453
40	3807	3813	3831	3863	3914	3935	3945	3961	3999	4003
45	3415	3400	3386	3375	3367	3380	3416	3486	3580	3600
50	2845	2831	2825	2833	2882	2977	2978	2980	2976	3047
55	2344	2335	2325	2310	2322	2394	2392	2380	2496	2527
60	1739	1740	1738	1752	1771	1788	1822	1837	1891	1927
65	1140	1137	1152	1153	1170	1182	1212	1254	1297	1366
70	609	602	609	625	626	639	661	703	732	792
75	224	218	211	212	226	252	262	286	300	339
80	124	122	117	110	101	97	93	86	79	84
85	40	40	41	43	45	47	47	47	49	50
90	26	26	26	26	26	26	25	25	24	24
95	24	24	24	24	23	23	23	23	23	24
100	28	27	27	27	27	28	28	29	29	29
105	34	34	34	34	33	34	34	35	35	35
110	41	40	40	40	39	39	40	40	39	40
115	47	46	46	46	46	46	45	45	44	43
120	54	53	54	52	53	52	49	49	50	50
125	58	57	56	57	58	59	59	55	49	46
130	69	67	65	64	59	56	54	54	59	60
135	63	62	63	65	65	67	70	70	61	49
140	82	81	81	81	77	69	60	52	47	44
145	64	62	60	58	56	52	49	48	45	42
150	53	53	52	51	51	49	46	44	42	40
155	45	44	43	43	42	41	40	38	37	36
160	36	36	36	35	35	34	33	33	32	32
165	31	31	31	31	31	31	31	31	31	31
170	32	32	32	32	32	32	32	31	31	31
175	35	35	35	35	35	35	35	35	35	36
180	34	34	34	34	34	34	34	34	34	34

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	5607	5607	5607	5607	5607	5607	5607	5607	5607
5	5591	5592	5582	5578	5569	5561	5561	5561	5558
10	5531	5524	5519	5517	5514	5505	5505	5506	5493
15	5414	5417	5417	5416	5417	5413	5409	5406	5405
20	5259	5263	5264	5268	5270	5268	5266	5264	5260
25	5081	5077	5082	5083	5083	5081	5079	5079	5076
30	4846	4845	4850	4857	4854	4850	4854	4849	4854
35	4550	4565	4567	4570	4571	4569	4569	4566	4565
40	4027	4177	4213	4198	4198	4196	4209	4217	4219
45	3606	3605	3718	3825	3820	3807	3807	3816	3816
50	3156	3164	3182	3289	3388	3386	3379	3382	3377
55	2548	2628	2694	2732	2856	2896	2887	2896	2898
60	1996	2056	2098	2206	2230	2352	2368	2367	2369

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CANDELA TABULATION - (Cont.)

65	1397	1459	1544	1574	1669	1717	1780	1788	1791
70	849	899	955	1012	1069	1136	1195	1218	1222
75	379	421	460	513	558	601	642	676	685
80	99	119	135	161	187	213	237	259	270
85	50	47	43	40	39	42	47	53	57
90	24	24	24	23	23	23	23	22	23
95	24	25	25	25	25	25	25	25	25
100	29	29	29	27	28	28	27	26	27
105	34	34	33	31	31	30	26	25	27
110	39	39	39	35	35	30	27	26	27
115	43	44	38	41	33	27	26	26	28
120	44	41	45	34	26	23	21	21	23
125	50	50	35	28	23	20	18	19	20
130	53	39	32	27	24	20	19	20	21
135	42	38	33	29	26	23	22	24	24
140	40	36	33	30	28	26	25	28	28
145	40	37	34	32	31	29	29	33	32
150	38	36	34	33	32	31	33	35	34
155	34	33	32	31	30	31	33	34	32
160	31	31	31	30	30	31	33	33	32
165	30	30	30	30	31	32	33	32	32
170	31	31	32	33	34	34	33	32	32
175	36	36	35	35	34	34	34	33	33
180	34	34	34	34	34	34	34	34	34

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	4395.09	N.A.	30.60
0-40	7163.72	N.A.	49.80
0-60	12215.76	N.A.	84.90
0-90	14147.81	N.A.	98.40
90-120	101.00	N.A.	0.70
90-130	139.96	N.A.	1.00
90-150	204.72	N.A.	1.40
90-180	234.09	N.A.	1.60
0-180	14381.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	531.74
10-20	1531.65
20-30	2331.7
30-40	2768.63
40-50	2763.88
50-60	2288.17
60-70	1398.5
70-80	464.39
80-90	69.16
90-100	27.41
100-110	34.17
110-120	39.42
120-130	38.96
130-140	36.70
140-150	28.06
150-160	17.16
160-170	9.00
170-180	3.22

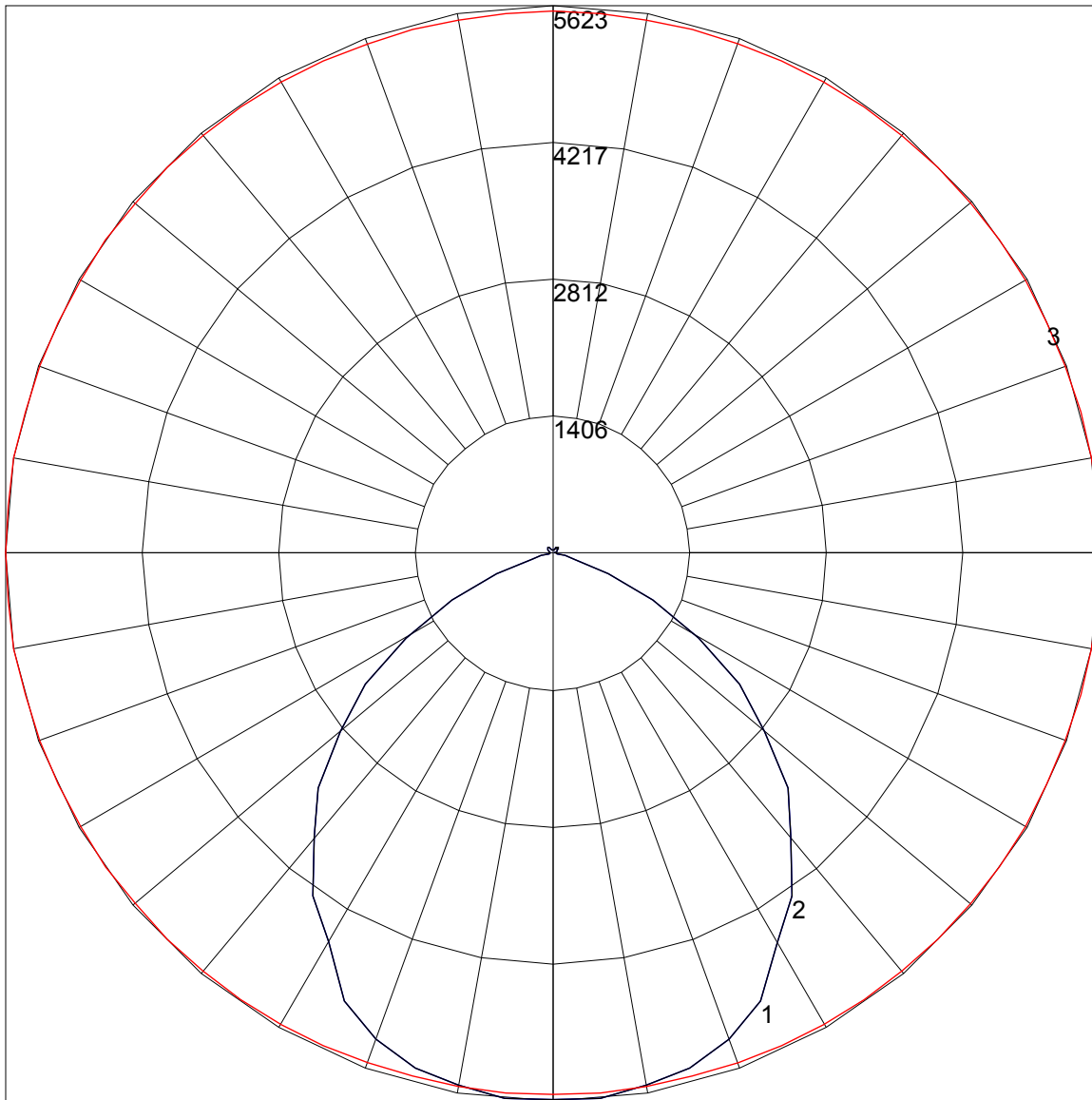
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	101	101	98
1	110	106	102	98	107	103	100	97	99	96	93	95	92	90	91	89	87	85
2	101	93	87	82	98	91	86	81	87	83	79	84	80	77	81	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	72	68	64	62
4	85	74	65	59	82	72	65	59	70	63	58	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	60	54	50	58	53	49	47
6	72	60	51	45	70	59	51	45	57	49	44	55	48	44	53	48	43	41
7	67	54	46	40	65	53	45	40	52	44	39	50	44	39	49	43	38	37
8	62	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

POLAR GRAPH



Maximum Candela = 5623 Located At Horizontal Angle = 0, Vertical Angle = 5
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 (5) (Through Max. Cd.)